PRIME MINISTER OF VIETNAM	SOCIALIST REPUBLIC OF VIETNAM
-------	Independence - Freedom - Happiness

No. 768/QD-TTg	*Hanoi, April 15, 2025*

DECISION

APPROVING AMENDMENT TO NATIONAL ELECTRICITY DEVELOPMENT PLANNING OF 2021 - 2030 PERIOD AND VISION TO 2050

THE PRIME MINISTER

Pursuant to the Law on Government Organization dated February 18, 2025;

Pursuant to the Law on Planning dated November 24, 2017;

Pursuant to the Law on Electricity dated November 30, 2024;

Pursuant to the Law on amendment to the Law on Planning, the Law on Investment, the Law on Public-Private Partnerships Investment, and the Law on Bidding dated November 29, 2024;

Pursuant to Resolution No. 81/2023/QH15 dated January 9, 2023 of the National Assembly on National Planning of the period of 2021 - 2030 and vision towards 2050;

Pursuant to Resolution No. 174/2024/QH15 dated November 30, 2024 of the 15th National Assembly;

Pursuant to Resolution No. 139/2024/QH15 dated June 28, 2024 of the National Assembly on Marine Spatial Planning of the 2021 - 2030 period and vision to 2050;

Pursuant to Decree No. 37/2019/ND-CP dated May 7, 2019 of the Government elaborating the Law on Planning;

Pursuant to Decree No. 58/2023/ND-CP dated August 12, 2023 of the Government on amendment to Decree No. 37/2019/ND-CP dated May 7, 2019 of the Government elaborating the Law on Planning;

Pursuant to Decree No. 22/2025/ND-CP dated February 11, 2025 of the Government on amendment to 37/2019/ND-CP dated May 7, 2019 of the Government elaborating the Law on Planning amended by Decree No. 58/2023/ND-CP dated August 12, 2023 of the Government;

Pursuant to Decree No. 56/2025/ND-CP dated March 3, 2025 of the Government elaborating the Law on Electricity on electricity development planning, electricity supply network

development plans, electricity project investment, and bidding for investor selection of electricity sale projects;

Pursuant to Resolution No. 937/NQ-UBTVQH15 dated December 13, 2023 of the Standing Committee of the National Assembly on specialized supervision for implementation of policies and regulations of the law pertaining to energy development of 2016 - 2021 period;

pursuant to Resolution No. 25/NQ-CP dated February 5, 2025 of the Government on growth targets of industries, sectors, and local governments to satisfy nationwide growth targets, 8% or more in 2025;

Pursuant to Directive No. 01/CT-TTg dated January 3, 2025 of the Prime Minister on staying active in electricity supple solutions for manufacturing operations and daily activities during peak hours of 2025 and 2026 - 2030 period;

At request of the Ministry of Industry and Trade under Presentation No. 1414/TTr-BCT dated February 26, 2025, Presentation No. 1823/TTr-BCT dated March 15, 2025, Document No. 1892/BCT-DL dated March 19, 2025, Document No. 2208/BCT-DL dated March 30, 2025; Document No. 2406/BCT-DL dated April 5, 2025; Document No. 2588/BCT-DL dated April 13, 2025; Assessment Report No. 70/BC-HDTD dated February 28, 2025 of the Assessment Council for Amendment to National Electricity Development Planning of 2021 - 2030 period and vision to 2050.

HEREBY DECIDES:

Article 1. Approving the Amendment to National Electricity Development Planning of 2021 - 2030 period and vision to 2050 (hereinafter referred to as "the VIII Electricity Planning Amendment") as follows:

I. PLANNING SCOPE

The Planning covers power sources and transmission grids of a minimum voltage of 220 kV, renewable energy and new energy industries and services in Vietnamese territory during 2021 - 2030 period and vision for 2050, including structures connecting the electrical grid with neighboring countries.

II. DEVELOPMENT PRINCIPLES AND OBJECTIVES

1. Development principles

a) Electricity is an important industry, electricity development must be one step ahead in order to promote rapid and sustainable development of the country, develop an independent and self-sufficient economy, improve people's lives, and secure national defense and security. The Planning must provide a long-term, effective, and sustainable vision which puts national and people interest first.

b) Electricity development must follow the principle of optimizing factors pertaining to electricity sources, electricity transmission, electricity distribution, effective and efficient use of electricity, reasonable roadmap accompanied by natural resource and environment protection, transformation of economic models, and assurance of national power security with minimum costs.

c) Electricity development planning shall be dependent on scientific basis, inheriting, dynamic, and open to adjustment. Effectively extract and use domestically available power resources, combine with reasonable import and export, and efficiently, effectively use energy. View the development of renewable energy and new energy as an opportunity to comprehensively develop energy industry ecosystem.

d) The Government shall focus on investing and encouraging economic sectors to rapidly develop electricity industry on the basis of healthy competition, implement market-based electricity price, ensure equal benefits for entities investing, using electricity, and satisfy development demands of regions.

dd) Electricity development must adhere to worldwide scientific - technological development trends, especially in terms of renewable energy, new energy, and be associated with national economy shift towards green economy, circular economy, and low-carbon economy. Energy transition must conform to international trends while remaining sustainable, fair, and legitimate.

2. Development objectives

a) General objectives

- Ensure national power security and satisfy socio-economic development, industrialization, modernization requirements.

- Successfully implement fair energy transition associated with modernizing production, develop smart electrical grids, and govern electrical systems advanced, conforming to worldwide trends of green transition, emission reduction, and science and technology development.

- Establish general power industry ecosystem based on renewable energy and new energy.

b) Specific objectives

- Regarding assurance of national power security:

+ Meet domestic electricity demands, satisfy socio-economic development goals with average GDP of approximately 10%/year for 2026 - 2030 period, approximately 7,5%/year for 2031 - 2050 period:

. Commercial electricity: approximately 500,4 - 557,8 billion kWh in 2030; approximately 1.237,7 - 1.375,1 billion kWh in orientation to 2050.

. Produced and imported electricity: approximately 560,4 - 624,6 billion kWH in 2030; approximately 1.360,1 - 1.511,1 billion kWh in orientation to 2050.

. Peak capacity: approximately 89.655 - 99.934 MW in 2030; approximately 205.732 - 228.570 MW in 2050.

+ Provide electricity safely, reliably, and in a manner that satisfies N-1 criterion for important load zones and N-2 criterion for especially important load zones and nuclear power sources. . By 2030, Vietnam's electricity reliability is placed among ASEAN's top 4 countries, Vietnam's electricity access is placed among ASEAN's top 3 countries.

+ By 2030, 50% of office buildings and 50% of houses use self-production, self-consumption solar power models (power is consumed on-site being and not sold to national electricity system).

- Regarding just energy transition:

+ Extensively develop renewable energy sources (excluding hydropower) for electricity production to approximately 28 - 36% in 2030. Percentage of renewable energy reaches 74 - 75% in orientation to 2050.

+ Control the level of greenhouse gas emission produced by modern production processes down to approximately 197 - 199 million tonne by 2030 and down to approximately 27 million tonne by 2050. Aim to limit peak emission level at 170 million tonne by 2030 so long as commitments under the Political Declaration on establishing the Just Energy Transition Partnership (JETP) with Vietnam are adequately and practically complied with by international partners.

+ Develop smart electrical grids capable of integrating with and safely, effectively operating on large-scale renewable energy sources.

- Regarding development of renewable energy industry and service ecosystem:

+ By 2030, establish 2 centers for interregional renewable energy industry and services for producing, transmitting, and consuming electricity; manufacturing industry for renewable energy equipment, construction, installation, related services and establish renewable energy industry ecosystem in potential areas such as the Northern Region, the South Central coast, and the Southern region when conditions are right.

+ Develop electricity sources from renewable energy and new energy production in order to export to Singapore, Malaysia, and other partners in the sector. By 2035, electricity export reaches approximately 5.000 - 10.000 MW or higher depending on importer's demands on the basis of high economic effectiveness, domestic energy security, and national defense and security.

III. NATIONAL ELECTRICITY DEVELOPMENT SOLUTIONS

1. Electricity source development solutions

a) Development direction

- Uniformly develop and diversify electricity source models with reasonable composition in order to assure energy security, increase independence of electricity industry and reduce dependence on imported fuel.

- Continue to promote development of renewable energy (hydroelectricity, land-based, shore-based and offshore wind power, solar power, biomass, etc.), new energy, clean energy (hydro, green ammonia, etc..) in a manner that suits system safety assurance with reasonable electricity price, especially self-consumption electricity sources and rooftop photovoltaic installation.

- Effectively utilize and use domestic and import fossil fuel: Gradually reduce the percentage of coal-fired electricity, prioritize domestic development of gas-fired electricity, and develop electricity sources from imported LNG at appropriate scale. Implement energy transition in a manner that closely adheres to worldwide technological and pricing trends.

- Develop balance electricity sources for each region and aim for supply - demand balance within each region. Reasonably situate electricity sources in areas of each region in order to effectively utilize electricity sources, ensure reliable on-site electricity supply, reduce technical losses, and minimize losses over long-distance electricity transmission.

- Develop new electricity sources with modern technologies and renovating existing technology in active plants. Terminate operation of power plants that do not satisfy environmental standards.

- Diversify models of investment in electricity source development in order to increase competitiveness and improve economic effectiveness.

b) Development solutions

(i) Maximize development of electricity sources from renewable energy (wind power, solar power, biomass power, etc.), continue to increase the percentage of renewable energy in the composition of electricity sources and produced electricity:

- Promote development of land-based, shore-based and offshore wind power, solar power depending on absorption capacity of the system, uncurtailed output, reasonable electricity price and transmission cost together with maintaining operation safety and general economy of electrical system, and maximize existing electrical grid infrastructures. Prioritize and encourage development of wind power and solar power (including rooftop solar power of houses, shopping malls, roofs of structures, industrial workshops, industrial parks, business establishments) for on-site consumption without connecting or selling electricity to national grid. Centralized solar power development shall be incorporated with installation of storage battery capable of storing at least 10% capacity for 2 years.

+ By 2030, total capacity of land-based and shore-based and offshore wind power reaches 26.066 - 38.029 MW (total technical potential Vietnam is approximately 221.000 MW). Prioritize planning for new wind power sources in economically disadvantaged administrative divisions with good wind potentials. Arrangement of project site on land, shore, and off-shore shall be defined under provincial planning.

+ Exhaustively utilize offshore wind power potentials (approximately 600.000 MW) to produce electricity and new energy:

Total off-shore wind power capacity for domestic electricity reaches approximately 6.000 - 17.032 MW, expects to enter into operation in 2030 - 2035 period. Aims to achieve 113.503 - 139.097 MW in orientation to 2050.

Extensively develop off-shore wind power in combination with other renewable energy models (solar power, land-based, shore-based wind power, off-shore wind power, etc.) for production of new energy (green hydrogen, green ammonia, etc.) for domestic demand and export.

By estimation, offshore wind power capacity serving production of new energy reaches approximately 15.000 MW by 2035 and approximately 240.000 MW by 2050.

- Solar power potential of Vietnam reaches approximately 963.000 MW (land - 837.400 MW, water surface - 77.400 MW, and rooftop - 48.200 MW). By 2030, total capacity of solar power sources (including centralized solar power and rooftop solar power, excluding solar power sources according to Clause 5 Article 10 of Law on Electricity No. 61/2024/QH15) reaches 46.459 - 73.416 MW; by 2050, total capacity reaches 293.088 - 295.646 MW.

- Prioritize and encourage development of biomass electricity, waste-to-power, solid waste-to-power in order to extensively utilize by-products of agriculture, forestry, wood processing, afforestation, and environmental remediation in Vietnam. By 2030, total capacity of biomass electricity reaches approximately 1.523 - 2.699 MW; total capacity of waste-to-power and solid waste-to-power reaches approximately 1.441 - 2.137 MW; geothermal electricity and new energy reaches approximately 45 MW. By 2050, total capacity of biomass electricity reaches approximately 4.829 - 6.960 MW; total capacity of waste-to-power and solid waste-to-power reaches approximately 1.784 - 2.137 MW; geothermal electricity and new energy reaches approximately 464 MW.

(ii) Extensively utilize economic-technical potentials of hydropower sources (total maximum potentials in Vietnam is approximately 40.000 MW) on the basis of preserving the environment, protecting the forest, and preserving water security. Selectively expand existing hydroelectricity plants for reserve capacity; practice hydroelectricity in reservoirs in order to utilize available running water. By 2030, total capacity of hydropower sources, including small-scale hydroelectricity reaches 33.294 - 34.667 MW, by 2050, total capacity reaches 40.624 MW.

(iii) Storage power sources

- Develop pumped-storage hydroelectricity power plants of a capacity approximately 2.400 - 6.000 MW by 2030; in orientation to 2050, pumped-storage hydroelectricity capacity reaches 20.691 - 21.327 MW to regulate load, reserve capacity, and assist in incorporating renewable energy sources at a large scale.

- Storage battery serving system demands and are incorporated with renewable energy, located near wind power, solar power centers or on electrical system at load centers. By 2030, expected capacity reaches approximately 10.000 - 16.300 MW; in orientation to 2050, capacity of storage battery reaches 95.983 - 96.120 MW to satisfy high percentage of renewable energy.

(iv) Prioritize and encourage the development of cogeneration plants, power plants that use waste heat, blast furnace gas, and by-products of technology lines in industrial facilities.

(v) Develop nuclear power sources in accordance with direction approved by the National Assembly under Resolution No. 174/2024/QH15 dated November 30, 2024, Resolution No. 189/2025/QH15 dated February 19, 2025, and Directive No. 01/CT-TTg dated January 3, 2025 of the Prime Minister. In 2030 - 2035 period, operate Ninh Thuan 1&2 Nuclear Power Plants of capacity of 4.000 - 6.400 MW. By 2050, the system requires approximately 8.000 MW of nuclear power as base power sources and may require more depending on demands.

(vi) Coal-fired electricity: Only continue projects mentioned under the revised VII Electricity Planning and under construction investment until 2030. Aim to make the transition to biomass and ammonia energy for power plants that have been operating for 20 years when market price is appropriate. Suspend operation of power plants which have lifetime exceeding 40 years if these plants cannot make the energy transition.

By 2030, total capacity of active power plants and projects that are in operation, to be completed and enter into operation reaches approximately 31.055 MW; hastily complete 5 projects/4.360 MW in construction, including: Na Duong II, An Khanh - Bac Giang, Vung Ang 2, Quang Trach I, Long Phu 1.

+ For 3 projects/5.300 MW (Nam Dinh 1, Song Hau 2, Vinh Tan 3) that are facing difficulties in capital arrangement, project developer structure rearrangement, the Ministry of Industry and Trade shall continue to negotiate with investors and propose solutions as per the law.

In orientation to 2050, phase out of coal-fired electricity and make the complete transition to biomass/ammonia fuel of total capacity of 25.798 MW.

(vii) Gas-fired electricity: Prioritize domestically available gas for generation. If domestic gas quantity is low, import additional natural gas or LNG. Develop projects utilizing LNG with matching LNG import infrastructures in appropriate scales and utilizing modern technology. Implement the roadmap for transition to hydrogen fuel when the technology is commercialized with reasonable market price.

+ Domestic gas-fired thermal electricity: Promote gas production projects such as Lo B, Ca Voi Xanh and 6.900 MW of downstream projects to match schedule of upstream projects: O Mon II,

III, IV (3.150 MW), Mien Trung I, II and Dung Quat I, II, III (3.750 MW); convert O Mon I (660 MW) to using gas produced by Lo B. Enable Quang Tri combined cycle gas turbine plants (340 MW) to use gas produced from Bao Vang mine.

With respect to the Southeast region: Implement solutions, prioritize infrastructure construction, study national connection and regional connect for the purpose of importing natural gas and LNG for use in Phu My, Ba Ria, and Nhon Trach power plants.

With respect to the Mekong Delta: Implement solutions, invest in infrastructure construction, study national connection and regional connection for the purpose of importing natural gas and LNG for use in power plants in Ca Mau.

By 2030, total capacity of power plants using domestically-produced gas reaches 10.861 - 14.930 MW; in orientation to 2050, continue to use domestically-produced gas or adopt LNG for approximately 7.900 MW and phase to hydrogen entirely for 7.030 MW.

+ LNG thermal electricity: Appropriately develop power sources utilizing LNG if alternatives are available to lessen dependence on imported fuel. By 2030, total capacity of LNG power sources reaches 22.524 MW; during 2031 - 2035 period, operate approved LNG-fired power projects of Long Son, Long An II or accelerate progress in advantageous conditions, include some projects as backup for projects that are behind on schedule or in case of peak load in order to be ready of investment in Vietnam. In orientation to 2050, power plants using LNG in combination with hydrogen reach capacity of 18.200 - 26.123 MW; LNG-fired thermal electricity phased entirely into hydrogen reaches 8.576 - 11.325; LNG CCS thermal electricity reaches total capacity of 1.887 - 2.269 MW

Continue to implement LNG import storage facility and port projects in Thi Vai (to supply gas for Nhon Trach 3 and 4 and additional gas for plants in the Southeast region), Son My (to supply gas for Son My I and II). Develop LNG import storage facility and port system to match power plants in the planning.

(viii) Flexible power sources (fast start-up time): Invest in development of flexible power sources to regulate load, maintain stability of the system to receive large-scale renewable energy. In 2030, estimate development of 2.000 - 3.000 MW. Achieves 21.333 - 38.641 MW in orientation of 2050.

(ix) Electricity import and export: Connect and implement effective electricity exchange with other countries in the sector, ensure benefits of the parties, increase safety of electrical system; increase electricity import from ASEAN countries and the Greater Mekong Subregion (GMS) with hydroelectricity potentials. Focus on investing and utilizing electricity sources in foreign countries in order to transmit electricity to Vietnam. In 2030, import approximately 9.360 - 12.100 MW from Laos in accordance with bilateral agreement and utilize import capability appropriate to connection conditions from China at appropriate scale; in orientation to 2050, import approximately 14.688 MW. Where conditions and reasonable prices are met, it is possible to increase maximum capacity or shorten delay until electricity import from Laos to the Northern Region.

Prioritize development of power sources from renewable energy for export. By 2030, increase electricity export to Cambodia by approximately 400 MW. Expectation of 2035, electricity export to Singapore, Malaysia and other partners in the sector reaches approximately 5.000 - 10.000 MW and is maintained at 10.000 MW by 2050 and higher if possible depending on importer's demand on the basis of yielding high economic effectiveness, ensuring domestic energy security, national defense and security.

During operation of Electricity Development Planning, the Ministry of Industry and Trade shall regularly review, submit reports on development of power sources to the Prime Minister in order to promptly amend electricity development planning and programs to stay in line with practical situations.

c) Electricity source composition

(i) By 2030:

Total capacity of power plants serving domestic demands (excluding export) reaches 183.291 - 236.363 MW, in which:

Land-based and shore-based wind power reaches 26.066 - 38.029 MW (accounts for 14,2 - 16,1%);

6.000 - 17.032 MW of off-shore wind power is brought into operation in 2030 - 2035 period or sooner if advantageous conditions and appropriate prices are met;

Solar power (including centralized and rooftop solar power, excluding solar power sources under Clause 5 Article 10 of the Law on Electricity No. 61/2024/QH15) reaches 46.459 - 73.416 MW (accounts for 25,3 - 31,1%);

Biomass electricity reaches 1.523 - 2.699 MW, waste-to-power reaches 1.441 - 2.137 MW, geothermal and new energy electricity reaches approximately 45 MW; production on a larger scale is possible in case of adequate fuel sources, high land use effectiveness, environmental remediation required, permitted by electrical grid infrastructures, reasonable electricity cost and transmission costs;

Hydroelectricity reaches 33.294 - 34.667 MW (accounts for 14,7 - 18,2%) and maybe higher if environmental, forest protection, water source security requirements are met;

Nuclear power reaches 4.000 - 6.400 MW and enters into operation in 2030 - 2035 or sooner in case of advantageous conditions;

Storage sources reach 10.000 - 16.300 MW (account for 5,5, - 6,9%);

Coal-fired thermal electricity reaches 31.055 MW (accounts for 13,1 - 16,9%);

Domestic gas-fired thermal electricity reaches 10.861 - 14.930 MW (accounts for 5,9 - 6,3%);

LNG-fired thermal electricity reaches 22.524 MW (accounts for 9,5 - 12,3%);

Flexible electricity sources (thermal electricity uses LNG, oil, hydrogen, etc. with high operational flexibility) reaches 2.000 - 3.000 MW (accounts for 1,1 - 1,3%);

Pumped-storage hydroelectricity reaches 2.400 - 6.000 MW;

Electricity import reaches 9.360 - 12.100 MW from Laos, China (accounts for 4,0 - 5,1%, maximize electricity import from Laos under bilateral agreement or shorten delay until electricity import from Laos to the Northern Region in presence of advantageous conditions.

In respect of coal-fired electricity sources that are facing difficulties in implementation, loan application, and/or major shareholder changes, adjust composition of wind power, solar power, and biomass to fit demand.

Regarding direct power purchase agreement and new energy production: Statistically, the current number of major customers using at least 1 million kWh/year accounts for approximately 25% of total electrical production systemwide (over approximately more than 1.500 customers).

By 2030, electricity export to Cambodia increases by approximately 400 MW. Expectation of 2035, electricity export to Singapore, Malaysia and other partners in the sector reaches approximately 5.000 - 10.000 MW and higher if possible depending on importer's demand on the basis of yielding high economic effectiveness, ensuring domestic energy security, national defense and security.

(ii) Orientation for 2050:

Total capacity of power plants serving domestic demands (excluding export) reaches 774.503 - 838.681 MW, in which:

Land-based and shore-based wind power reaches 84.696 - 91.400 MW (accounts for 10,9%);

Off-shore wind power reaches 113.503 - 139.097 MW (accounts for 14,7 - 16,6%);

Solar power (including centralized and rooftop solar power) reaches 293.088 - 295.646 MW (accounts for 35,3 - 37,8%);

Biomass electricity reaches 4.829 - 6.960 MW, waste-to-power reaches 1.784 -2.137 MW, geothermal electricity and new energy electricity reaches approximately 464 MW;

Nuclear power reaches 10.500 - 14.000 MW (accounts for 1,4 - 1,7%);

Hydroelectricity reaches 40.624 MW (accounts for 4,8 - 5,2%);

Electricity storage reaches 95.983 - 96.120 MW (accounts for 11,5 - 12,4%);

Coal-fired electricity is reduced to 0 MW (0%), coal is no longer used for electricity generation;

Thermal electricity powered by biomass/ammonia reaches 25.798 MW (accounts for 3,1 - 3,3%);

Thermal electricity powered by domestically-produced gas and transitioned into LNG 7.900 MW (accounts for 0,9 - 1%);

Domestic gas-fired thermal electricity transitioned entirely into hydrogen reaches 7.030 MW (accounts for 0,8 - 0,9%);

LNG CCS thermal electricity reaches 1.887 - 2.269 MW (accounts for 0,2 - 0,3%);

Thermal electricity of LNG and hydrogen co-firing reaches 18.200 - 26.123 MW (accounts for 2,3 - 3,1%);

Thermal electricity phased entirely into hydrogen reaches 8.576 - 11.325 MW (accounts for 1,1 - 1,4%);

Flexible electricity sources reach 21.333 - 38.641 MW (accounts for 2,8 - 4,6%);

Pumped-storage hydroelectricity reaches 20.691 - 21.327 MW;

Electricity import from Laos, China reaches 14.688 MW (accounts for 1,8 - 1,9%) and may increase maximum capacity or shorten delay until electricity import from Laos to the Northern Region if conditions and reasonable prices are met.

Participation in DPPA and new energy production accounts for approximately 30-60% of total electricity produced from renewable energy or higher depending on market development.

Maintain electricity import to Singapore, Malaysia, and other partners in the sector at approximately 10.000 MW or higher depending on importer’s demand on the basis of yielding high economic effectiveness, ensuring domestic energy security, national defense and security.

2. Electrical grid development solutions

a) Development direction

- Develop transmission system in a manner consistent with development pace of electricity sources, load development demand of areas, use modern technologies, meet international demand, and be ready to connect with the sector. Develop smart electrical grid in order to integrate renewable energy sources at a large scale and meet the requirement for a safe, stable, and economic electrical system.

- Develop transmission grids of 500 kV and 220 kV in order to meet uncurtailed output of power plants, improve electricity supply reliability, reduce electricity losses, and meet N-1 requirement for important load zone and N-2 requirement for especially important load zone and nuclear

power sources. Develop transmission grids with long-term reserve capacity, increase the use of poles carrying multiple circuits, voltage levels in order to reduce land use area. Encourage construction of substations which transmit electricity and supply electricity to adjacent load.

- 500 kV transmission grids act as the core in connecting regional systems and exchanging electricity with other countries in the sector. Restrict interregional transmission at a reasonable extent, reduce long-distance transmission, minimize construction of new interregional transmission lines before 2030.

- Build 220 kV electrical grids with sufficient reliability and electrical substations in the area with high load density in accordance with charts to ensure flexible operation. Build 220 kV electrical substations eligible for unmanned automatic operation. Promote the construction of GIS substations, 220/22 kV substations, and underground substations close to load centers.

- Study the application of back-to-back system and flexible transmission equipment in order to improve transmission capability and reduce land use area. Study transmission technology for AC and DC with voltage higher than 500 kV.

- After 2030, develop super-high voltage DC transmission lines connecting the Central Coast region, the South Central Coast, and the Northern Region to extensively utilize offshore wind power potential. Study Asia - Pacific connection.

- Study, adopt new technology, smart grid solutions such as HVDC, SVC, SVG, FACTS, BESS, DLR appropriate to system demands to satisfy technical requirements and increase operational effectiveness.

b) Construction load of transmission grids

- For 2025 - 2030 period: Build new 102.900 MVA and renovate 23.250 MVA of 500 kV substations; build new 12.944 km and renovate 1.404 km of 500 kV transmission lines; build new 105.565 MVA and renovate 17.509 MVA of 220 kV substations; build new 15.307 km and renovate 5.483 km of 220 kV transmission lines.

- For 2031 - 2035 period: Build new 26.000 - 36.000 MW HVDC converter stations and 3.500 - 6.600 km of high-voltage DC transmission line. Build new 73.800 MVA and renovate 36.600 MVA of 500 kV substations; build new 7.480 km and renovate 650 km of 500 kV transmission lines; build new 44.500 MVA and renovate 34.625 MVA of 220 kV substations; build new 4.296 km and renovate 624 km of 220 kV transmission lines.

- For 2036 - 2050 period: Build new 26.000 - 36.000 WM of HVDC converter stations and 3.600 - 6.700 km of HVDC transmission lines; build new 24.000 MVA of HVAC converter stations above 500 kV and 2.500 km of HVAC transmission lines above 500 kV; build new 72.900 MVA and renovate 102.600 MVA of 500 kV electrical substations; build new 7.846 km and renovate 750 km of 500 kV transmission lines; build new 81.875 MVA and renovate 103.125 MVA of 220 kV electrical substations; build new 5.370 km and renovate 830 km of 220 kV transmission line.

Development load of electrical grid serves to guide spatial development, predict land use demand for development, be updated in provincial planning, relevant field-specific planning. Detail data pertaining to capacity, size, location of electrical substations, length, cross section, number of buses shall be determined during project preparation.

3. Connecting electrical grid with other countries in the region

- Study cooperation and connection between electrical grid and countries in the GMS and ASEAN at 500 kV and 220 kV in order to increase system connectivity, electricity exchange, and utilize resource strengths of each country.

- Connect electrical grid with Laos via 550 kV and 220 kV transmission lines in order to import electricity from power plants in Laos as per cooperation memorandum of understanding signed by Governments of the two countries.

- Maintain existing electrical grid connection with neighboring countries at 220 kV, 110 kV, and medium voltage; study implementation of asynchronous solutions between electrical systems using DC to AC transformers at 220-500 kV of voltage.

- Establish electrical grid connection via 500 kV and 220 kV transmission lines in order to import electricity from China to Northern Region until 2030; study connection schemes of AC-DC conversion or ultra-high-voltage transmission.

- Study, adopt ultra-high-voltage transmission with other ASEAN countries for electricity import and export. Specific plans shall be approved by competent authorities on a project-by-project basis.

4. Direction for rural electricity development

Develop new Electricity supply program for rural areas, mountainous regions, and islands aiming at households that have not been supplied with electricity and renovating existing rural electrical grids. Transmit electricity from national electrical grids combined with electricity from renewable energy to rural areas, mountainous regions, and islands; 100% of rural households are powered by 2025.

5. Direction for development of renewable energy industry and service ecosystem

- By 2030, establish 2 interregional renewable energy industry and service centers in potential areas such as the Northern Region, the South Central Coast, and the Southern region when conditions allow.

- Interregional renewable energy industry and service centers are expected to include renewable energy power plants operating at a capacity of 2.000 - 4.000 mW (primarily offshore wind power); factories producing renewable energy equipment, equipment for production of new energy; equipment and instruments for transportation, construction, and installation of renewable

energy equipment; auxiliary services, green industrial parks with low carbon emission; renewable energy research centers and training facilities.

6. Investment demand

- For 2026 - 2030 period: Total investment in electricity source and transmission grid development is equivalent to 136,3 billion USD, in which, investment in electricity sources is approximately 118,2 billion USD; investment in transmission grid is approximately 18,1 billion USD.

- Direction for 2031 - 2035 period: Estimated investment demand for electricity source and transmission grid development is equivalent to 130 billion USD, in which: investment in electricity source is approximately 114,1 billion USD; investment in transmission grid is approximately 15,9 billion USD and will be specified in subsequent planning.

- Direction for 2036 - 2050 period: Estimated investment demand for electricity source and transmission grid development is equivalent to 569,1 billion USD, in which: investment in electricity source is approximately 541,2 billion USD; investment in transmission grid is approximately 27,9 billion USD and will be specified in subsequent planning.

IV. DIRECTION FOR LAND ALLOCATION FOR DEVELOPMENT OF ELECTRICITY CONSTRUCTIONS AND ENVIRONMENTAL PROTECTION, CLIMATE CHANGE ADAPTATION, AND PRESERVATION OF ECOSYSTEM, SCENERY, AND HERITAGE

1. Land allocation for electricity development

Land demand for electricity facility and infrastructure development is approximately 89,9 - 93,36 thousand ha during 2021 - 2030 period and approximately 169,8 - 195,15 thousand ha during 2031 - 2050 period and conforms to land allocation criteria under Resolution No. 39/2021/QH15 in order to guarantee implementation of electricity development objectives.

2. Environmental protection, climate change adaptation, and preservation of ecosystem, scenery, and heritage

Implement extensive transition from fossil fuel to renewable energy and new energy to reduce emission and greenhouse gas to meet net zero emission by 2050.

Apply new, modern technologies to make the transition to a low-carbon economy, reduce energy consumption, reduce emission, aim towards fulfilling regulations on carbon emission per unit of export commodities and carbon market.

Avoid and minimize the development of energy constructions and energy infrastructures in areas where such operations may affect forests, natural and biodiversity reserves, natural reservations, heritage reservations, and cultural heritage reservations that have been ranked.

It is necessary to develop solutions for preparing for climate change and adapting to extreme climate events such as drought, flood, inundation, landslide, heat waves, rain level, rising sea level, etc. during execution of electricity projects to allow constructions to operate safely, stably and minimize risks, damage.

V. LISTS OF POTENTIAL PROJECTS OF NATIONAL IMPORTANCE, PRIORITY PROJECTS IN ELECTRICITY INDUSTRY, AND ORDER OF PRIORTY

1. Criteria and reasoning of development of lists of potential projects of national importance and priority projects in electricity industry

Lists of potential projects of national importance and priority projects in electricity industry shall be developed on the basis of:

- Projects that play an important role in balancing electricity supply - demand of Vietnam, regions, and important load centers in order to ensure electricity supply security and fulfill socio-economic development requirements.

- Projects that serve national defense and security; projects that incorporate both economic and national defense benefits.

- Projects that improve electricity sources of areas facing risk of electricity shortage.

- Projects that ensure safety and security of national electricity system between base load electricity, renewable electricity, and load (pumped-storage hydroelectricity, storage batteries, etc.).

- Projects that contribute to climate change adaptation, greenhouse gas emission reduction, environmental protection (biomass, electricity produce from waste, solid waste, cogeneration, waste heat, etc.), and implementation of climate-related commitments.

- Projects that contribute towards overall ecosystem of renewable energy industry and services.

- Projects that export electricity, export new energy produced from renewable energy.

- Projects of 500 kV and 220 kV electrical grids.

2. List of potential projects of national importance and priority projects of electricity industry

Lists of potential projects of national importance, list of priority projects of electricity industry are provided under Appendix I, Appendix III.

VI. SOLUTIONS AND RESOURCES FOR IMPLEMENTATION OF PLANNING

1. Solutions for maintaining electricity supply security

- Diversify fuel sources used in electricity generation; harmoniously incorporate domestically available preliminary energy sources and imported energy sources.

- Promote search and survey to increase domestic reserve and production quantity of coal and petroleum for electricity production in order to reduce dependence on imported fuel.

- Invest in technical infrastructures serving import of natural gas, LNG, and coal in a manner that conforms to thermal electricity percentage and energy transition trend.

- Extensively develop renewable energy sources in order to replace fossil fuel as much as possible. Promptly approach worldwide science - technology progress regarding new energy sources (hydrogen, ammonia, etc.) for use in electricity generation.

- Study the application of technology for transition of fuel of coal-fired and gas-fired power plants to biomass, ammonia, hydrogen, etc.

- Arrange study and assessment of potentials of non-traditional energy sources.

2. Solutions for generating funding sources and mobilizing capital for investment in electricity sector development industry

- Study, finalize financial regulations, and mobilize capital for investment in electricity industry development.

- Diversify funding sources and methods for mobilizing capital, effectively attract domestic and foreign funding sources for electricity development, and ensure national defense and security in electricity market. Request and effectively utilize international assistance (JETP, AZEC, etc.), green credit, climate credit, green bond, etc.

- Diversify investment models (government, private, public-private partnership, etc.) of electricity projects. Exercise the role of state-owned enterprises, extensively encourage private sector in and out of Vietnam to invest in electricity development. Continue to negotiate and effectively utilize sponsorships, fundings of international partners during Vietnam’s energy transition and goals of net zero emission.

- Create a convenient, transparent, attractive environment to encourage private sector to invest, develop electricity projects.

- Gradually increase financial mobilization capability of enterprises in electricity industry at request of domestic and international financial institutions.

3. Solutions pertaining to regulations and policies

- Improve regulations on market-based electricity price with Government’s regulatory actions, ensure harmonious combination between political - economic - social objectives of the Government and manufacturing, financial autonomy objectives of enterprises in electricity

sector. Electricity price must be sufficient to recover costs, generate reasonable profits, attract investment in electricity development, and encourage competition in production, transmission, distribution, retail, use of electricity, and prevention of electricity waste. Continue to renovate and improve applicable electricity price tariff. Study the application of two-part electricity tariff when appropriate. Continue to maintain electricity price transparency.

- Amend the Law on Efficient and Effective Energy Use in order to make the drastic shift in reducing energy consumption of the economy, promulgate regulations, compulsory standards, regulations pertaining to effective energy use, reform economy growth model.

- Develop regulations and policies incentivizing domestic enterprises to engage in development of renewable energy, development of renewable energy and new energy industry for domestic demand and export, and development of electricity industry equipment manufacturing.

- Develop policies on increasing import substitution in electricity sector to improve autonomy, independence, and reduce costs.

- Review the legal system and legislative documents in order to devise plans for developing, improving, and creating the legal basis for nuclear power development. Devise roadmap for development legal system pertaining to nuclear safety.

4. Solutions pertaining to environmental protection, natural disaster preparedness and response

- Perform energy transition, primarily from fossil fuel to renewable energy and new energy; increase capacity of carbon capture equipment and promote the application of carbon capture technology and application.

- Study, apply, and develop waste treatment technology, especially waste produced from renewable energy-based industries on the basis of minimizing, recovering, reusing, and recycling to minimize amount of waste, utilize waste materials as materials for other economic sectors.

- Implement solutions for natural disaster preparedness and response, adaptation to climate change and extreme weather from the project selection phase, construction design and commencement, to production and operation.

- Minimize development of electricity constructions and infrastructures in areas where they can affect natural forests, wildlife and biodiversity sanctuaries, natural reservations, heritage and cultural heritage reservations that have been ranked depending on national environmental protection zoning.

5. Solutions pertaining to science and technology

- Establish fundamental research centers and development centers specializing in renewable energy, new energy, carbon storage technology in Vietnam to improve qualification, receive and transfer technology, promote and expand the scale of application of renewable energy and clean electricity system in Vietnam and the sector.

- Invest in electricity research and development (R&D).

- Apply modern technology in new electricity constructions; gradually upgrade and renovate existing constructions.

- Renovate and upgrade electricity transmission and distribution system, improve electricity reliability, and minimize electricity loss. Shorten the roadmap for construction of smart electrical grids.

- Modernize data information system, automated and control systems serving regulation, operation of electricity system and electricity market. Access new technology and science achievements, artificial intelligence, internet of things, including digital transformation in electricity sector.

- Gradually adopt solutions for encouraging and mandating renovation of technology and equipment of electricity-consuming economic sectors.

- Successfully implement Resolution No. 57-NQ/TW dated December 22, 2024 of the Politburo.

- Reinforce infrastructures for technical assistance, national science and technology potential pertaining to general development and nuclear safety, security for nuclear power.

6. Solutions pertaining to effective and efficient use of electricity

- Increase awareness of effective and efficient use of energy and environmental protection as an important national policy and social responsibility as stated under Resolution No. 55-NQ/TW dated February 11, 2020 of the Politburo.

- Encourage investment and use of energy-saving technology and equipment; increase energy accounting; promote implementation of energy service company models.

- Apply mandatory regulations and standards together with policies pertaining to effective use of electricity in fields and sectors with high electricity consumption.

- Promote implementation of demand side management programs (DSM), effective and efficient use of energy programs.

7. Solutions pertaining to human resource development

- Develop high quality personnel, especially in the fields of electricity generation, transmission, distribution, regulation, electricity market, smart electrical grids, etc.

- Develop teams of experts and scientists with high skill level in the field of electricity; develop entities specializing in electricity science - technology.

- Organize training and refresher training for technical and managerial officials in the field of electricity to match other countries in the region and around the world.

- Renovate training programs and contents, diversify personnel training methods, associate training with production practice, ensure sufficient qualification for operation of large-scale electrical system, integrate high percentage of renewable energy, and apply smart electrical grid technology.

8. Solutions pertaining to international cooperation

- Actively and effectively implement the JETP, maximize supports of international partners in technology transfer, administration, personnel training and financing, and deem JETP as an important solution for energy transition process in Vietnam.

- Implement energy diplomacy and climate flexibly, effectively and equally on the basis of reciprocity principle. Expand and deepen energy cooperation with strategic partners and important partners.

- Promote cooperation in research, connection of electrical grids with neighboring countries, countries in the Southeast Asia region, and countries in the GMS.

- Expand international cooperation relating to scientific research and electricity technology development; hasten technology transfer and utilize funding sources of foreign partners.

9. Solutions pertaining to improvement to national capacity and import substitution of equipment in electricity sector, and development of electrical engineering.

- Establish renewable energy industrial centers, create complete renewable energy industry ecosystem associated with manufacturing, production, auxiliary services, and centralized industrial parks.

- Focus on development of manufacturing industry for renewable energy equipment, electricity storage equipment, carbon recovery, absorption, storage, and use technology, etc. in Vietnam in order to actively utilize existing potentials, increase independence, and reduce the costs for generating electricity from renewable energy.

- Encourage domestic enterprises to implement complex, highly technical constructions in electricity project. Improve design, procurement, and project administration capacity of domestic enterprises in order to act as general contractors of large-scale electricity projects.

- Increase domestic equipment design and manufacturing capabilities to increase the percentage of domestically manufactured equipment in electricity generation and electrical grid structures; improve capabilities to repair, maintain, and inspect domestic electricity equipment.

10. Solutions pertaining to management and improvement of effectiveness of electricity operations

- Extensively renovate electricity management to increase openness, transparency, competitiveness, effectiveness, work productivity, decrease costs of all phases, and conform to socialist-oriented market economy.

- Restructure the electricity sector to conform to the approved roadmap for competitive electricity market.

- Renovate and improve effectiveness of state-owned enterprises in the field of electricity, apply advanced administration models and practices, increase national credit rating, maintain public and transparent during operation.

11. Solutions relating to organizing implementation and planning supervision, implementation

- Develop electricity database which includes data on planning and organization of implementation of planning to use as the basis for supervising planning implementation. Regularly review national and local load development, implementation schedule of electricity sources and electrical grids to propose solutions for adjusting electricity source composition and schedule if necessary and satisfy electricity demand of the economy.

- Effectively manage the development of self-production, self-consumption electricity sources, cogeneration sources, electricity sources utilizing waste heat, blast furnace gas, by-products of technology lines in industrial facilities, rooftop photovoltaic installation, and electricity sources agreed upon by electric utilities and electricity buyers.

- Develop and adopt regulations on discipline and compliance in implementation of the VIII Electricity Planning Amendment regarding project developers, ministries, central departments, local governments.

Article 2. Organizing implementation

1. Ministry of Industry and Trade shall

- Be responsible for accuracy of data, documents, graphs, maps, and database in planning documents and compliance with this Decision.

- Publicly post planning as per the law, implement this Decision, implement socio-economic development duties as per the law.

- Develop plans for planning implementation in order to implement targets, tasks provided set forth under planning; evaluate planning implementation in accordance with the Law on Planning.

- Examine, supervise implementation of electricity source, electrical grid projects in order to propose solutions for maintaining schedule under approved planning, take actions within their powers and as per the law in respect of projects that are behind on schedule.

- Develop and promulgate appropriate, effective electricity generation price bracket for all electricity sources, maintain flexibility, harmonious benefits and shared risks.

2. Ministries, central departments shall

Perform their functions, duties, powers to adequately implement projects under the VIII Electricity Planning Amendment; propose regulations, policies, and solutions for resolving difficulties in order to effectively implement planning targets, maintain consistency with implementation of socio-economic development goals of individual industries and local governments.

3. People's Committees of provinces and central-affiliated cities shall

- Be responsible for list of proposed projects, order of priority of projects, accuracy, legitimacy of connection plans of electricity sources according to written proposition.

- Direct relevant local departments to update list of electricity sources and electrical grids defined under this planning in provincial planning and other technical, field-specific planning such as construction planning, urban planning, rural planning, land use planning of provincial level, district level in order to make spatial arrangement necessary for construction of electricity projects.

- Review, amend, update in provincial planning, plan for implementation of provincial planning in accordance with planning laws, electricity laws (in case of conflicting with this planning) in a manner that specifies scope of electricity sources, electrical grids in electricity supply plans under Article 4 and Clause 1 Article 24 of Decree No. 56/2025/ND-CP dated March 3, 2025 of the Government, adheres to additional capacity allocated to administrative divisions under the VIII Electricity Planning and the VIII Electricity Planning Amendment, and respects lists and order of priority submitted to the Ministry of Industry and Trade.

- Organize selection of project developers, allocation of land fund for development of electricity constructions as per the law; take charge and closely cooperate with project developers in implementing site preparation, compensation, relocation, and migration for electricity source and electrical grid projects as per the law.

- Coordinate and supervise project developer's compliance with schedule of electricity source and electrical grid projects in the area and schedule-compliant operation of the projects.

4. Vietnam Electricity (EVN) shall

- Play the main role in providing electricity stably and safely for socio-economic development. Invest in electricity source and transmission grid projects according to designated tasks.

- Review and assess electricity supply - demand balance, electricity system operating conditions of Vietnam and each region therein, and report to competent authorities.

- Exhaustively implement solutions for renovating enterprise administration, increasing business effectiveness, increasing productivity, reducing electricity loss, saving expenditure, and reducing costs.

- Adhere to schedule of designated electricity source and electrical grid projects.

5. Vietnam National Industry - Energy Group (Petrovietnam) shall

- Extensively search, survey, and extract domestic gas sources to power electricity generation depending on load demand. Rapidly and effectively implement gas mines such as Lo B, Ca Voi Xanh, Ken Bau, etc. in accordance with approved schedule.

- Implement solutions for constructing storage, port infrastructures, connecting gas system of Vietnam and the region for the purpose of importing natural gas and LNG to maintain gas supply for power plants.

- Adhere to schedule of designated electricity source and electrical grid projects.

6. The Vinacomin and Dong Bac Corporation shall

- Play the main role in coal supply for electricity generation according to the roadmap for energy transition. Improve domestic coal productivity and combine with coal import to supply power plants.

- Invest in electricity source and electrical grid projects according to designated projects.

Article 3. This Decision comes into force from the date of signing and replaces Decision No. 500/QD-TTg dated May 15, 2023 of the Prime Minister. Electricity projects under electricity development planning, plan for implementation of electricity development planning under Decision No. 500/QD-TTg dated May 15, 2023, Decision No. 262/QD-TTg dated April 1, 2024, and Decision No. 1682/QD-TTg dated December 28, 2024, or electricity projects of which electricity import guidelines have been approved by competent authorities shall conform to approved planning or electricity import guidelines.

Article 4. Ministers, heads of ministerial agencies, heads of Governmental agencies; Chairpersons of People's Committees provinces and central-affiliated cities; Directors of Boards of Members; General Directors of EVN, Petrovietnam, Vinacomin; President and General Director of Dong Bac Corporation and relevant agencies are responsible for the implementation of this Decision.

PP. PRIME MINISTER
DEPUTY PRIME MINISTER

Bui Thanh Son

APPENDIX I

LIST OF PRIORITY PROJECTS AND SCHEMES FOR IMPROVING LEGAL POLICIES AND IMPROVING CAPACITY OF ELECTRICITY INDUSTRY

(Attached to Decision No. 768/QD-TTg dated April 15, 2025 of the Prime Minister)

1. Schemes/projects for developing and improving policies, regulations.

2. Schemes/projects for improving science and technology capabilities, constructing fundamental research centers and development centers include:

- Renewable energy and new energy science - technology research centers;

- Energy and climate change research centers;

- Nuclear power development research center;

- Studying of scheme for establishment of interregional renewable energy industry and service centers.

3. Schemes/projects for training and increasing human resource quality.

APPENDIX II

CAPACITY ALLOCATION OF RENEWABLE ENERGY ELECTRICITY SOURCES BY ADMINISTRATIVE DIVISIONS

(Attached to Decision No. 768/QD-TTg dated April 15, 2025 of the Prime Minister)

(Total additional capacity of each administrative division relative to capacity under approved Plan for implementation of the VIII Electricity Planning)

Schedule 1: Additional hydroelectricity capacity by provinces (MW)

No.	Region/province	2025 - 2030 period (MW)	2031 - 2035 period (MW)	Note
A	**Additional capacity for small hydroelectricity by provinces**			
	Nationwide total	**3.780,5**	**3.939,3**	

I	**The Northern Region**	**2.411,5**	**2.067,3**	
1	Ha Giang	117,5	211,2	
2	Cao Bang	34	14	
3	Lao Cai	311,9	270,7	
4	Bac Kan	41,3	30	
5	Lang Son	24	24	
6	Tuyen Quang	31	30,9	
7	Yen Bai	228	209	
8	Thai Nguyen	30	30	
9	Phu Tho	10,2	0	
10	Quang Ninh	32	0	
11	Lai Chau	892	1.092,1	
12	Dien Bien	207	8,3	
13	Son La	411,6	147,2	
14	Hoa Binh	38	0	
15	Bac Giang	3	0	
16	Hanoi City	0	0	
17	Vinh Phuc	0	0	
II	**The North Central Coast**	**147**	**192**	
1	Thanh Hoa	52,9	130	
2	Nghe An	33,2	22	
3	Ha Tinh	24,69	0	
4	Quang Binh	58	39	
III	**The Central Coast**	**595**	**829**	
1	Quang Tri	63	151,8	
2	Hue City	31	51,9	
3	Quang Nam	318	438,3	
4	Quang Ngai	127	186,7	
5	Da Nang	55	0	
IV	**The Central Highlands**	**306**	**380**	

1	Kon Tum	57,4	44	
2	Gia Lai	114	144,6	
3	Dak Lak	50	128,45	
4	Dak Nong	84,6	63	
V	**The South Central Coast**	**277**	**397**	
1	Binh Dinh	62	63,5	
2	Phu Yen	48	60	
3	Khanh Hoa	8	2	
4	Ninh Thuan	29	28,5	
5	Binh Thuan	47	22	
6	Lam Dong	83	221,3	
VI	**The Southern Region**	**46**	**74**	
1	Binh Duong	13	23,1	
2	Binh Phuoc	28	40,9	
3	Dong Nai	0	0	
4	Tay Ninh	5	10	
5	Ba Ria - Vung Tau	0	0	
6	Kien Giang	0	0	
B	**Additional capacity for hydroelectricity from exceeding 30 MW to less than 50 MW in capacity by provinces**			
	Nationwide total	**462,3**		
I	**The Northern Region**	**40,5**		
1	Lai Chau	40,5		
II	**The North Central Coast**	**83**		
1	Thanh Hoa	38		
2	Nghe An	45		
III	**The Central Coast**	**48**		
1	Quang Tri	48		
IV	**The South Central Coast**	**122**		

1	Binh Dinh	40		
2	Binh Thuan	46		
3	Lam Dong	36		
V	**The Southern Region**	**168,8**		
1	Binh Phuoc	78,8		
2	Dong Nai	90		

Schedule 2: Additional capacity of solar power by provinces (MW)

No.	Province/city	Additional capacity of rooftop solar power		Additional capacity of centralized solar power	
		2025 - 2030 period (MW)	2031 - 2035 period (MW)	2025 - 2030 period (MW)	2031 - 2035 period (MW)
I	**The Northern Region**	**17950**	**1068**	**10306**	**9459**
1	Hanoi	894	54	483	9459 (Until 2035, capacity proposed by local governments is lower than capacity demand of electrical system)
2	Hai Phong City	2092	124	100	
3	Hai Duong	1348	80	100	
4	Hung Yen	1189	71	57	
5	Ha Nam	1107	66	50	
6	Nam Dinh	601	36	223	
7	Thai Binh	610	36	50	
8	Ninh Binh	440	27	50	
9	Ha Giang	64	4	100	
10	Cao Bang	50	3	100	
11	Lao Cai	550	33	105	
12	Bac Kan	51	3	200	
13	Lang Son	492	29	100	
14	Tuyen Quang	76	5	198	
15	Yen Bai	500	30	1656	
16	Thai Nguyen	1019	60	220	
17	Phu Tho	595	35	100	
18	Vinh Phuc	1155	68	50	
19	Bac Giang	1674	99	100	

20	Bac Ninh	1528	91	50	
21	Quang Ninh	1418	84	400	
22	Lai Chau	50	3	1086	
23	Dien Bien	50	0	904	
24	Son La	50	5	3674	
25	Hoa Binh	347	21	150	
II	**The North Central Coast**	**1041**	**210**	**1670**	**1529**
1	Thanh Hoa	373	68	440	164
2	Nghe An	232	49	350	0
3	Ha Tinh	313	68	440	1336
4	Quang Binh	123	26	440	28
III	**The Central Coast**	**250**	**463**	**1444**	**2366**
1	Quang Tri	50	27	310	781
2	Hue City	50	136	397	1583
3	Da Nang City	50	102	50	0
4	Quang Nam	50	113	50	0
5	Quang Ngai	50	85	140	2
IV	**The Central Highlands**	**200**	**0**	**6333**	**6513**
1	Kon Tum	50	0	660	0
2	Gia Lai	50	0	1030	0
3	Dak Lak	50	0	3349	4962
4	Dak Nong	50	0	1294	1551
V	**The South Central Coast**	**300**	**88**	**4475**	**4388**
1	Binh Dinh	50	77	500	0
2	Phu Yen	50	11	1000	0
3	Khanh Hoa	50	0	100	0
4	Ninh Thuan	50	0	1974	3984
5	Binh Thuan	50	0	564	266
6	Lam Dong	50	0	337	138

VI	**The Southern Region**	**6635**	**14673**	**3654**	**10514**
1	Binh Phuoc	440	1258	678	4114
2	Tay Ninh	226	708	450	314
3	Binh Duong	1036	2486	55	1367
4	Dong Nai	1520	3075	1069	3942
5	Ba Ria - Vung Tau	985	1783	50	0
6	Ho Chi Minh City	374	981	20	0
7	Long An	999	2062	268	156
8	Tien Giang	149	296	50	0
9	Ben Tre	97	228	50	0
10	Tra Vinh	58	134	50	0
11	Vinh Long	110	221	50	0
12	Dong Thap	50	203	74	249
13	An Giang	50	95	80	0
14	Kien Giang	50	0	400	0
15	Can Tho City	199	390	50	0
16	Hau Giang	142	370	110	372
17	Soc Trang	50	183	50	0
18	Bac Lieu	50	0	50	0
19	Ca Mau	50	200	50	0

Schedule 3: Additional capacity of land-based and shore-based wind power by provinces (MW)

No.	Province/city	2025 - 2030 period (MW)	2031 - 2035 period (MW)	Note
I	**The Northern Region**	**2194**	**0**	
1	Hanoi City	0	0	
2	Hai Phong City	0	0	
3	Hai Duong	0	0	
4	Hung Yen	0	0	
5	Ha Nam	0	0	
6	Nam Dinh	0	0	

7	Thai Binh	0	0	
8	Ninh Binh	0	0	
9	Ha Giang	0	0	
10	Cao Bang	0	0	
11	Lao Cai	0	0	
12	Bac Kan	266	0	
13	Lang Son	0	0	
14	Tuyen Quang	0	0	
15	Yen Bai	160	0	
16	Thai Nguyen	0	0	
17	Phu Tho	0	0	
18	Vinh Phuc	0	0	
19	Bac Giang	108	0	
20	Bac Ninh	0	0	
21	Quang Ninh	300	0	
22	Lai Chau	0	0	
23	Dien Bien	779	0	
24	Son La	580	0	
25	Hoa Binh	0	0	
II	**The North Central Coast**	**3333**	**0**	
1	Thanh Hoa	364	0	
2	Nghe An	240	0	
3	Ha Tinh	1605	0	
4	Quang Binh	1124	0	
III	**The Central Coast**	**510**	**0**	
1	Quang Tri	560	0	
2	Hue City	100	0	
3	Da Nang City	0	0	
4	Quang Nam	100	0	
5	Quang Ngai	0	0	

IV	**The Central Highlands**	**2643**	**3496**	
1	Kon Tum	474	206	
2	Gia Lai	884	2129	
3	Dak Lak	1085	1162	
4	Dak Nong	200	0	
V	**The South Central Coast**	**3254**	**250**	
1	Binh Dinh	1273	0	
2	Phu Yen	300	0	
3	Khanh Hoa	200	0	
4	Ninh Thuan	1039	0	
5	Binh Thuan	242	0	
6	Lam Dong	200	250	
VI	**The Southern Region**	**4212**	**2350**	
1	Binh Phuoc	0	0	
2	Tay Ninh	0	0	
3	Binh Duong	0	0	
4	Dong Nai	0	0	
5	Ba Ria - Vung Tau	100	6	
6	Ho Chi Minh City	0	0	
7	Long An	73	18	
8	Tien Giang	100	226	
9	Ben Tre	500	340	
10	Tra Vinh	1450	448	
11	Vinh Long	0	0	
12	Dong Thap	0	0	
13	An Giang	50	0	
14	Kien Giang	219	19	
15	Can Tho	0	0	
16	Hau Giang	100	0	
17	Soc Trang	988	0	

18	Bac Lieu	346	351	
19	Ca Mau	387	942	

Schedule 4: Additional capacity of waste-to-power and biomass energy by provinces (MW)

No.	Province/City	Additional capacity of waste-to-power		Additional capacity of biomass energy	
		2025 - 2030 period (MW)	2031 - 2035 period (MW)	2025 - 2030 period (MW)	2031 - 2035 period (MW)
	Nationwide	**1270**	**0**	**1510**	**1276**
I	**The Northern Region**	**523**	**0**	**375**	**208**
1	Hanoi City	220	0	6	4
2	Hai Phong	20	0	0	0
3	Hai Duong	0	0	0	0
4	Hung Yen	73	0	0	0
5	Ha Nam	0	0	0	0
6	Nam Dinh	35	0	34	19
7	Thai Binh	0	0	0	0
8	Ninh Binh	0	0	0	0
9	Ha Giang	0	0	32	18
10	Cao Bang	0	0	0	0
11	Lao Cai	12	0	32	18
12	Bac Kan	0	0	16	9
13	Lang Son	0	0	13	7
14	Tuyen Quang	0	0	32	18
15	Yen Bai	0	0	32	18
16	Thai Nguyen	10	0	6	4
17	Phu Tho	0	0	19	11
18	Vinh Phuc	0	0	0	0
19	Bac Giang	13	0	0	0
20	Bac Ninh	0	0	0	0
21	Quang Ninh	0	0	0	0
22	Lai Chau	0	0	6	4

23	Dien Bien	3	0	84	46
24	Son La	0	0	16	9
25	Hoa Binh	137	0	45	25
II	**The North Central Coast**	**25**	**0**	**388**	**30**
1	Thanh Hoa	0	0	126	10
2	Nghe An	0	0	60	5
3	Ha Tinh	0	0	14	1
4	Quang Binh	25	0	188	14
III	**The Central Coast**	**142**	**0**	**92**	**564**
1	Quang Tri	20	0	17	106
2	Hue	2	0	10	58
3	Da Nang	70	0	2	13
4	Quang Nam	50	0	56	344
5	Quang Ngai	0	0	7	43
IV	**The Central Highlands**	**39**	**0**	**343**	**213**
1	Kon Tum	0	0	31	19
2	Gia Lai	30	0	171	106
3	Dak Lak	9	0	141	88
4	Dak Nong	0	0	0	0
V	**The South Central Coast**	**117**	**0**	**165**	**0**
1	Binh Dinh	15	0	50	0
2	Phu Yen	10	0	115	0
3	Khanh Hoa	40	0	0	0
4	Lam Dong	40	0	0	0
5	Ninh Thuan	12	0	0	0
6	Binh Thuan	0	0	0	0
VI	**The Southern Region**	**425**	**0**	**146**	**261**
1	Ho Chi Minh	216	0	0	0
2	Binh Phuoc	0	0	79	121

3	Tay Ninh	0	0	0	0
4	Binh Duong	0	0	0	0
5	Dong Nai	58	0	0	0
6	Ba Ria - Vung Tau	25	0	3	7
7	Long An	72	0	20	42
8	Dong Thap	0	0	0	0
9	An Giang	8	0	26	54
10	Tien Giang	0	0	0	0
11	Vinh Long	0	0	0	0
12	Ben Tre	18	0	10	20
13	Kien Giang	20	0	0	0
14	Can Tho	0	0	150	0
15	Hau Giang	0	0	0	0
16	Tra Vinh	0	0	0	0
17	Soc Trang	9	0	8	17
18	Bac Lieu	0	0	0	0
19	Ca Mau	0	0	0	0

Schedule 5: Additional capacity of pumped-storage hydroelectricity by provinces (MW)

Province	2025 - 2030 period (MW)	2031 - 2035 period (MW)
I. The Northern Region	**1900**	**1400**
Lai Chau	300	400
Dien Bien	400	400
Son La	900	300
Bac Giang	300	300
II. The North Central Coast	**831**	**0**
Thanh Hoa	126.5	
Ha Tinh	704.5	
III. The Central Coast	**846**	**1795**
Quang Tri	246	1200
Da Nang		595

Quang Nam	300	
Quang Ngai	300	
IV. The South Central Coast		**1200**
Binh Dinh		600
Ninh Thuan		
Lam Dong		600

APPENDIX III

LIST AND EXPECTED SCHEDULE OF ELECTRICITY SOURCE, ELECTRICAL GRID PROJECTS OF NATIONAL IMPORTANCE, PRIORITY PROJECTS OF ELECTRICITY INDUSTRY

(Attached to Decision No. 768/QD-TTg dated April 15, 2025 of the Prime Minister)

Appendix III.1

LIST AND EXPECTED SCHEDULE OF ELECTRICITY SOURCE PROJECTS OF NATIONAL IMPORTANCE, PRIORITY PROJECTS OF ELECTRICITY INDUSTRY

Schedule 1: List of LNG thermal power plants

No.	Project	Expected capacity (MW)	Operating period	Note
1	Quang Ninh LNG	1500	2025-2030	
2	Thai Binh LGN	1500	2025-2030	
3	Quang Trach II LNG	1500	2025-2030	
4	Phase 1 Hai Lang LNG	1500	2025-2030	
5	Nhon Trach 3 and Nhon Trach 4 Power Plants	1624	2025-2030	
6	Phase I Hiep Phuoc LNG	1200	2025-2030	
7	Long An 1 LNG	1500	2025-2030	
8	Son My I BOT Thermal Power Plant (*)	2250	2025-2030	
9	Son My II BOT Thermal Power Plant (*)	2250	2025-2030	

10	Bac Lieu LNG (*)	3200	2025-2030	
11	Nghi Son LNG (*)	1500	2025-2030	
12	Ca Na LNG (*)	1500	2025-2030	
13	Quynh Lap LNG (*)	1500	2025-2030	
14	Phase I Hai Phong LNG	1600	2025-2030	According to commitment of People's Committee of Hai Phong City under Document No. 583/UBND-UBND-XD2 dated March 26, 2025
15	Phase II Hiep Phuoc LNG	1500	2025-2030	According to commitment of People's Committee of Ho Chi Minh City under Document No. 1945/UBND-KT dated March 27, 2025
16	Long Son LNG (*)	1500	2031-2035	People's Committee of Ba Ria - Vung Tau Province proposes to bring forward the schedule to 2025 - 2030 in accordance with system demand
17	Long An II LNG	1500	2031-2035	
18	Cong Thanh LNG (**)	1500	2031-2035	People's Committee of Thanh Hoa Province proposes to fuel transition from coal to LNG. Document No. 5473/VPCP-CN dated July 31, 2024 of the Office of the Government on transition from coal to LNG for Cong Thanh thermal electricity project of Thanh Hoa Province. It is possible to bring forward to 2026-2030 depending on system demand.
19	Phase II Hai Phong LNG (**)	3200	2031-2035	According to commitment of People's Committee of Hai Phong City under Document No. 583/UBND-UBND-XD2 dated March 26, 2025, it is possible to bring forward to 2025-2030 depending on system demand.
20	Vung Ang III LNG (**)	1500	2031-2035	

21	Quang Thach III LNG (**)	1500	2031-2035	
22	Potential areas for new LNG projects or reserved for projects behind on schedule or projects that cannot be implemented.			Thai Binh, Nam Dinh, Thanh Hoa, Vung Ang, Quang Binh, Chan May, Da Nang, Van Phong, Mui Ke Ga, Tan Phuoc, Ben Tre, Ca Mau, etc.

Note:

- Installation capacity of power plants may vary by 15% and will be made accurate, compliant with capacity of generator group under Plan for planning implementation, preparation phase and implementation phase.

(*): Projects requiring solutions for satisfying operating schedule under approved planning.

(**): New projects of 2031 - 2035 period supplying electricity for the Northern Region.

Schedule 2: List of LNG thermal power plants reserved for development

No.	Project	Expected capacity (MW)	Operating period	Note
1	Quang Ninh 2 LNG	1500	2031-2035	Projects reserved for development in 2031 - 2035 period and only implemented when competent authorities approve in order to cover other local electricity sources behind on schedule or sudden load peak
2	Phase 2 Thai Binh LNG	1500	2031-2035	
3	Phase I Hoa Ninh LNG	1500	2031-2035	
4	Thanh Hoa LNG	1500	2031-2035	
5	Expansion of Ca Mau 1&2 Thermal Power Plant	1500	2031-2035	

Schedule 3: List of coal-fired thermal power plants under construction

No.	Project	Expected capacity (MW)	Operating period	Note
1	Na Duong II Thermal Power Plant	110	2025-2030	

2	An Khanh - Bac Giang Thermal Power Plant	650	2025-2030	
3	Vung Ang II Thermal Power Plant	1330	2025-2030	
4	Quang Trach I Thermal Power Plant	1403	2025-2030	
5	Long Phu I Thermal Power Plant	1200	2025-2030	

Schedule 4: List of coal-fired thermal power plants having difficulties in implementation

No.	Project	Expected capacity (MW)	Operating period	Note
1	Nam Dinh I Thermal Power Plant	1200	2025-2030	
2	Quang Tri Thermal Power Plant	1320	2025-2030	Project developer has filed for project suspension (in accordance with EGATi 277/2023)
3	Vinh Tan III Thermal Power Plant	1980	2025-2030	
4	Song Hau II Thermal Power Plant	2120	2025-2030	The Ministry of Industry and Trade has terminated BOT Contract of the Project under Document No. 4579/BCT-DL dated July 1, 2024

Schedule 5: List of cogeneration electricity sources, electricity sources utilizing waste heat, blast furnace gas, by-products of technology lines in industrial facilities

No.	Project	Expected capacity (MW)	Operating period	Note
1	Hai Ha 1 CHP Thermal Power	300	2025-2030	Project developer files financial statement of 50 MW component project
2	Duc Giang CHP Thermal Power	100	2025-2030	People's Committee of Lao Cai Province issues Document No. 40/UBND-KT dated January 3, 2025 indicates that project developer has filed to "abandon"

				the project.
3	Formosa HT2	650	2025-2030	
4	Hoa Phat II Waste Heat Recovery Thermal Power	300	2025-2030	Under construction
5	Thermal power plant under: VNT19 Pulp and Paper Mill	54	2025-2030	According to Document No. 1432/UBND-KTN dated March 18, 2025 of the People's Committee of Quang Ngai Province
6	Hai Ha 2 CHP Thermal Power	600	2031-2035	
7	Hai Ha 3 CHP Thermal Power	600	2031-2035	
8	Hai Ha 4 CHP Thermal Power	600	2031-2035	
9	Other projects	Prioritize and encourage the use of this model in electricity production to increase energy use effectiveness. Total capacity of this model is allowed for unlimited development to match use demand and potentials of industrial facilities.		

Schedule 6: List of thermal power plants using domestic gas

No.	Project	Expected capacity (MW)	Operating period	Note
1	O Mon I Thermal Power (*)	660	2025-2030	Using Lo B gas
2	O Mon II Thermal Power Plant	1050	2025-2030	
3	O Mon III Thermal Power Plant	1050	2025-2030	
4	O Mon IV Thermal Power Plant	1050	2025-2030	
5	Dung Quat I Combined Cycle Power Plant	750	2025-2030	Using Ca Voi Xanh gas, having schedule consistent with that of upstream section of Ca Voi Xanh gas - electricity project
6	Dung Quat II Combined Cycle Power Plant	750	2025-2030	
7	Dung Quat III Combined Cycle Power Plant	750	2025-2030	
8	Mien Trung I Combined	750	2025-2030	

	Cycle Power Plant			
9	Mien Trung II Combined Cycle Power Plant	750	2025-2030	
10	Quang Tri Combined Cycle Power Plant	340	2025-2030	Using Bao Vang gas, having schedule consistent with that of upstream section.

Note:

- Installation capacity of power plants may vary by 15% and will be made accurate, compliant with capacity of generator group under Plan for planning implementation, preparation phase and implementation phase.

(*) Existing power plants changing to Lo B gas.

Schedule 7: List of large-scale hydroelectricity

No.	Project	Expected capacity (MW)	Operating period	Province	Note
	Additional capacity for 2025 - 2030	**2,958**			
1	Long Thao Hydroelectricity	44	2021-2024	Dien Bien	In operation
2	Song Lo 6 Hydroelectricity	60	2021-2024	Tuyen Quang	In operation
3	Song Lo 7 Hydroelectricity	36	2021-2024	Tuyen Quang	In operation
4	Pac Ma Hydroelectricity	160	2021-2024	Lai Chau	In operation
5	Suoi Sap 2A Hydroelectricity	49.6	2021-2024	Son La	In operation
6	Dak Mi 2 Hydroelectricity	147	2021-2024	Quang Nam	In operation
7	Song Tranh 4 Hydroelectricity	48	2021-2024	Quang Nam	In operation
8	Thuong Kon Tum Hydroelectricity	220	2021-2024	Kon Tum	In operation

9	Phu Tan 2 Hydroelectricity	93	2021-2024	Dong Nai	In operation
10	Extended Hoa Binh Hydroelectricity	480	2025-2030	Hoa Binh	Approved under the VIII Electricity Planning
11	Yen Son Hydroelectricity	90	2025-2030	Tuyen Quang	Approved under the VIII Electricity Planning
12	Nam Cum 1, 4, 5 Hydroelectricity	100.8	2025-2030	Lai Chau	Approved under the VIII Electricity Planning; Nam Cum 5 suggests 15 MW from 10 MW
13	Nam Cum 2, 3, 6 Hydroelectricity	83	2025-2030	Lai Chau	Approved under the VIII Electricity Planning; Nam Cum 6 suggests 10,5 MW from 7 MW
14	Hoi Xuan Hydroelectricity	102	2025-2030	Thanh Hoa	Approved under the VIII Electricity Planning
15	My Ly Hydroelectricity	120	2025-2030	Nghe An	Approved under the VIII Electricity Planning
16	Nam Mo 1 (Vietnam) Hydroelectricity	51	2025-2030	Nghe An	Approved under the VIII Electricity Planning
17	Extended Yaly Hydroelectricity	360	2025-2030	Gia Lai	Approved under the VIII Electricity Planning
18	Dak Mi 1 Hydroelectricity	84	2025-2030	Kon Tum	Approved under the VIII Electricity Planning
19	Extended Tri An Hydroelectricity	200	2025-2030	Dong Nai	Approved under the VIII Electricity Planning
20	Song Lo 9 Hydroelectricity	87	2025-2030	Tuyen Quang	People’s Committee of Tuyen Quang Province proposes under Document No. 15/SCT-QLNL dated January 3, 2025
21	Extended Tuyen Quang Hydroelectricity	120	2025-2030	Tuyen Quang	People’s Committee of Tuyen Quang Province proposes under Document No. 15/SCT-QLNL dated January 3, 2025
22	Extended Se San 3 Hydroelectricity	130	2025-2030	Gia Lai	People’s Committee of Gia Lai Province proposes under Document No. 17/UBND-CNXD dated January 5, 2025

23	Extended Se San 4 Hydroelectricity	120	2025-2030	Gia Lai	People's Committee of Gia Lai Province proposes under Document No. 17/UBND-CNXD dated January 5, 2025
24	Extended Ban Chat Hydroelectricity	110	2025-2030	Lai Chau	
25	Extended Da Nhim Hydroelectricity (Phase 2)	80	2025-2030	Ninh Thuan	
26	Extended Srepok 3 Hydroelectricity	110	2025-2030	Dak Lak	People's Committee of Dak Lak Province proposes under 2285/UBND-CNXD dated March 11, 2025.
27	Expanded Buon Kuop Hydroelectricity	140	2025-2030	Dak Lak	People's Committee of Dak Lak Province proposes under 2285/UBND-CNXD dated March 11, 2025.
28	Viet Thanh Hydroelectricity	55	2025-2030	Yen Bai	People's Committee of Yen Bai Province proposes under Document No. 27/UBND-CN dated January 4, 2025
29	An Binh Hydroelectricity	65	2025-2030	Yen Bai	People's Committee of Yen Bai Province proposes under Document No. 27/UBND-CN dated January 4, 2025
30	An Thinh Hydroelectricity	70	2025-2030	Yen Bai	People's Committee of Yen Bai Province proposes under Document No. 27/UBND-CN dated January 4, 2025
31	Bao Ha Hydroelectricity	75	2025-2030	Lao Cai	People's Committee of Lao Cai Province proposes under Document No. 40/UBND-KT dated January 3, 2025.
32	Thai Nien Hydroelectricity	75	2025-2030	Lao Cai	People's Committee of Lao Cai Province proposes under Document No. 40/UBND-KT dated January 3, 2025.
33	Suoi Hung Hydroelectricity	50	2025-2030	Hoa Binh	Document No. 338/UBND-KTN dated March 5, 2025 of the

					People's Committee of Hoa Binh Province.
	Additional capacity of 2031 - 2035	**2,049**	**2031-2035**		
1	Extended Son La Hydroelectricity	800	2031-2035	Son La	
2	Extended Lai Chau Hydroelectricity	400	2031-2035	Lai Chau	
3	Extended Huoi Quang Hydroelectricity	260	2031-2035	Son La	
4	Extended Se San 3A Hydroelectricity	54	2031-2035	Kon Tum	People's Committee of Kon Tum Province proposes under Document No. 11/BC-UBND dated January 13, 2025.
5	Thuan My Hydroelectricity	250	2031-2035	Hanoi City	Hanoi City proposes under Document No. 536/SCT-QLNL dated February 5, 2025
6	Extended Trung Son Hydroelectricity	130	2031-2035	Thanh Hoa	Document No. 2930/UBND-CNXDKIl dated March 7, 2025 of People's Committee of Thanh Hoa Province
7	Extended A Vuong Hydroelectricity	105	2031-2035	Quang Nam	People's Committee of Quang Nam Province under Document No. 1827/UBND-KT dated March 7, 2025
8	Da Kho Hydroelectricity	50	2031-2035	Lam Dong	People's Committee of Lam Dong Province proposes under Document No. 23/SCT-QLCN dated January 4, 2025.
9	Dak R'lap 1 (*) Hydroelectricity	53	2031-2035	Dak Nong, Lam Dong	People's Committee of Dak Nong Province proposes under Document No. 1428/UBND-TH dated March 11, 2025
10	Dak R'lap 2 (*) Hydroelectricity	68	2031-2035	Dak Nong, Lam Dong	People's Committee of Dak Nong Province proposes under 1428/UBND-TH dated March 11, 2025

11	Dak R'lap 3 (*) Hydroelectricity	82	2031-2035	Binh Phuoc	

Note:

(*) Potential projects approved under Decision No. 500/QD-TTg, requiring consideration and careful evaluation of environmental, land, forest impact caused by the projects.

Schedule 8 : List of hydroelectricity under 50 MW in capacity connected at 220 kV or higher

No.	Project	Expected capacity (MW)	Operating period	Province	Note
	Additional capacity of 2025 - 2030	**132,2**			
1	Extended Se San 4A Hydroelectricity	29	2025-2030	Gia Lai	Document No. 538/UBND-CNXD dated March 7, 2025 of the People's Committee of Gia Lai Province (connected at 220 kV)
2	Muong Lat Hydroelectricity	45	2025-2030	Thanh Hoa	Document No. 2930/UBND-CNXDKH dated March 7, 2025 of the People's Committee of Thanh Hoa Province (connected at 220 kV)
3	Dong Van Hydroelectricity (capacity increase)	29,8	2025-2030	Nghe An	Nghe An Province proposes 29,8 MW from 28 MW (connected at 220 kV)
4	Project for efficient use of water sourced from Song Ba Ha Hydroelectricity	18	2025-2030	Phu Yen	EVN proposes under Document No. 862/EVN-KH dated February 11, 2025 (connected at 220 kV)
5	Song Bo Hydroelectricity	26	2025-2030	Thua Thien Hue	Thua Thien Hue Province proposes 26 MW from 23,6 MW (in operation) (connected at 220 kV)
6	Cam Son Hydroelectricity	36	2025-2030	Nghe An	Document No. 1673/UBND-KTN dated March 7, 2025 of the People's Committee of Nghe An Province (connected at 220 kV)

7	Thong Thu Hydroelectricity	28	2025-2030	Nghe An	Document No. 1673/UBND-KTN dated March 7, 2025 of the People's Committee of Nghe An Province (220 kV transmission line connected to 220 kV Nam Sum - Nong Cong transmission line)
8	Expanded Thai An Hydroelectricity	41	2025-2030	Ha Giang	Document No. 300/SCT-QLNL dated March 7, 2025 of Department of Industry and Trade of Ha Giang
9	Da R'Sal Hydroelectricity	42	2025-2030	Lam Dong	People's Committee of Lam Dong proposes under Document No. 2237/UBND-MT dated March 7, 2025
10	Ban Nga Hydroelectricity	24	2025-2030	Cao Bang	According to Decision No. 262/QD-TTg. Cao Bang proposes under Document No. 629/UBND-CN dated March 7, 2025. 220 kV Ban Nga Hydroelectricity transmission line - into Nho Que 3 Hydroelectricity - Cao Bang
	Additional capacity of 2031 - 2035	**60**			
1	Se San 5 Hydroelectricity	30	2031-2035	Gia Lai	Document No. 538/UBND-CNXD dated March 7, 2025 of the People's Committee of Gia Lai Province (connected at 220 kV)
2	Extended Song Ba Ha Hydroelectricity	30	2031-2035	Phu Yen	Document No. 1408/UBND-DTKT dated March 7, 2025 of the People's Committee of Phu Yen Province (connected at 220 kV)

Schedule 9: List of pumped-storage hydroelectricity

No.	Project	Expected capacity (MW)	Operating period	Province	Note
1	Bac Ai Pumped-Storage Hydroelectricity	1200	2025-2030	Ninh Thuan	Included in the VIII Electricity Planning
2	Phuoc Hoa Pumped-storage Hydroelectricity	1200	2025-2030	Ninh Thuan	Included in the VIII Electricity Planning

3	Dong Phu Yen Pumped-storage Hydroelectricity	900	2025-2030	Son La	Included in the VIII Electricity Planning, adjustment to operating phase
4	Don Duong #1 Pumped-storage Hydroelectricity	300	2025-2030	Lam Dong	Included in the VIII Electricity Planning, adjustment to operating phase
	Additional pumped-storage hydroelectricity (*)	**7.072**	**2025-2035**		
1	Phase 1 Sin Ho Pumped-storage Hydroelectricity	300	2025-2030	Lai Chau	Document No. 961/UBND-KTN dated March 7, 2025
2	Phase 2 Sin Ho Pumped-storage Hydroelectricity	400	2031-2035	Lai Chau	Document No. 961/UBND-KTN dated March 7, 2025
3	Phase 1 Dien Bien 3 Pumped-storage Hydroelectricity	400	2025-2030	Dien Bien	Document No. 837/UBND-KT dated March 7, 2025
4	Phase 2 Dien Bien 3 Pumped-storage Hydroelectricity	400	2031-2035	Dien Bien	Document No. 837/UBND-KT dated March 7, 2025
5	Dong Phu Yen Pumped-storage Hydroelectricity	300	2031-2035	Son La	Document No. 937/UBND-KTN dated March 7, 2025
6	Cam Son 1 Pumped-storage Hydroelectricity	300	2025-2030	Bac Giang	Document No. 1213/UBND-KTTH dated March 8, 2025
7	Cam Son 2 Pumped-storage Hydroelectricity	300	2031-2035	Bac Giang	Document No. 1213/UBND-KTTH dated March 8, 2025
8	Song Muc - Dong Lon Pumped-storage Hydroelectricity	110	2025-2030	Thanh Hoa	Document No. 2930/UBND-CNXDKH dated March 7, 2025
9	Yen My - Bong Bong Pumped-storage Hydroelectricity	16,5	2025-2030	Thanh Hoa	Document No. 2930/UBND-CNXDKH dated March 7, 2025
10	Kim Son - Thuong Song Tri Pumped-	530	2025-2030	Ha Tinh	Document No. 1200/UBND-KT2 dated

	storage Hydroelectricity				March 5, 2025
11	Ke Go - Boc Nguyen Pumped-storage Hydroelectricity	174,5	2025-2030	Ha Tinh	Document No. 1200/UBND-KT2 dated March 5, 2025
12	Cam Lo Pumped-storage Hydroelectricity	246	2025-2030	Quang Tri	Document No. 854/UBND-KT dated March 7, 2025
13	Phase 2 Cam Lo Pumped-storage Hydroelectricity	1200	2031-2035	Quang Tri	Document No. 854/UBND-KT dated March 7, 2025
14	Phase 1 Da Nang Pumped-storage Hydroelectricity	595	2031-2035	Da Nang	Document No. 1316/UBND-SCT dated March 7, 2025
15	A Vuong Pumped-storage Hydroelectricity	300	2025-2030	Quang Nam	Document No. 1827/UBND-KT dated March 7, 2025
16	Phase 1 Ba To Pumped-storage Hydroelectricity	300	2025-2030	Quang Ngai	Document No. 1230/UBND-KTN dated March 7, 2025
17	Vinh Thanh Pumped-storage Hydroelectricity	600	2031-2035	Binh Dinh	Document No. 1799/UBND-KT dated March 7, 2025
18	Don Duong #2,3 Pumped-storage Hydroelectricity (**)	600	2031-2035	Lam Dong	Document No. 2237/UBND-MT dated March 7, 2025

Note:

(*) Projects determined on the basis of order of priority in respect of lists proposed by local governments. It is possible to consider development at a larger scale depending on system demand.

(**): Total project capacity is 1.200 MW.

Schedule 10: List of expected nuclear power sources (MW)

No.	Project	Expected capacity (MW)	Operating period
1	Ninh Thuan 1 Nuclear Power Plant	2.000 - 3.200	2030-2035

2	Ninh Thuan 2 Nuclear Power Plant	2.000 - 3.200	2030-2035

Schedule 11: List of expected storage battery project (MW)

No.	Project	Expected capacity (MW)	Operating period	Note
1	50 MW storage battery project	50	2025-2030	MWh capacity will be made accurate during implementation
2	7 MW storage battery project integrated in 50 MW solar farm	7	2025-2030	
3	105 MW storage battery project integrated in 400 MW solar farm	105	2025-2030	
4	Other storage battery projects	138	2025-2030	
5	BESS system installation at Krong Pa Solar Power Plant	7	2025-2030	Medium-voltage connection
6	BESS system installation at Krong Pa 2 Solar Power Plant	7	2025-2030	
7	BESS Project of Hai Anh Wind Power Plant	4	2025-2030	Internal power plant connection
8	Additional storage batteries	Approximately 20.287	2025-2035	Centralized solar power projects are required to be outfitted with storage batteries capable of storing at least 10% of installation capacity of the projects for at least 2 hours; remaining storage battery capacity is installed onto the system depending on operational demand

Schedule 12: List of expected land-based and shore-based wind power projects approved under the VIII Electricity Planning, Plan for implementation of the VIII Electricity Planning

No.	Project	Expected capacity (MW)	Operating period	Connection plan	Note

	Dien Bien Province	**300**			
1	BCG Dien Bien 1 Wind Power Plant	175	2025-2030	220 kV single-circuit transmission line connecting electrical substation of BCG Dien Bien 1 Wind Power Plant with 220 kV Dien Bien station	QD 262/QD-TTg
2	Envision Nam Po Wind Power Plant	125	2025-2030	Transition on 220 kV Nam Po - Lai Chau transmission line to 500 kV Lai Chau Electrical Substation	QD 262/QD-TTg
	Bac Kan Province	**400**			
1	Thien Long Ngan Son Wind Power Plant	130	2025-2030	220 kV single-circuit transmission line connecting 220 kV station of Thien Long - Ngan Son Wind Power Plant with 220 kV busbar at 220 kV Bac Kan Electrical Substation	QD 1682/QD-TTg
2	Ngan Son Wind Power Plant	150	2025-2030		QD 262/QD-TTg
3	Thien Long Cho Moi Wind Power Plant	120	2025-2030	220 kV double-circuit transmission line from 220 kV station of Thien Long - Cho Moi Wind Power Plant and transition on 220 kV Bac Kan - Thai Nguyen transmission line	QD 262/QD-TTg
	Yen Bai Province	**200**			
1	Nam Bung Wind Power Plant	200	2025-2030	220 kV double-circuit transmission line transition on 220 kV Huoi Quang - Nghia Lo transmission line	QD 262/QD-TTg
	Bac Giang Province	**470**			
1	Bac Giang 1 Wind Power Plant	55	2025-2030	110 kV single-circuit transmission line connecting 110 kV extended busbar of 110 kV Bac Lung Electrical Substation	QD 262/QD-TTg
2	Bac Giang 2 Wind Power Plant	55	2025-2030	110 kV transmission line transition on Son Dong 110 kV single-circuit transmission line connecting - 220 kV Son Dong Electrical Substation	QD 262/QD-TTg
3	Cam Ly Wind Power Plant	55	2025-2030	110 kV single-circuit transmission line connecting 110 kV Bac Lung Electrical Substation	QD 262/QD-TTg
4	Gio Tan Son Wind	50	2025-2030	110 kV single-circuit transmission line	QD

	Power Plant			connecting 110 kV Luc Ngan Electrical Substation	262/QD-TTg
5	SD Son Dong Wind Power Plant	105	2025-2030	110 kV double-circuit transmission line connecting 110 kV Son Dong Electrical Substation	QD 262/QD-TTg
6	Yen Dung Wind Power Plant	150	2025-2030	110 kV double-circuit transmission line connecting 110 kV Son Dong Electrical Substation	QD 262/QD-TTg
	Lang Son Province	**1414**			
1	Ai Quoc Wind Power Plant	100	2025-2030	220 kV double-circuit transmission line connecting 220 kV Lang Son 1 - Dong Mo transmission line in transition	QD 262/QD-TTg
2	Binh Gia Wind Power Plant	80	2025-2030	110 kV double-circuit transmission line of Binh Gia Wind Power Plant connecting 110 kV Lang Son - Binh Gia transmission line in transition	QD 262/QD-TTg
3	Cao Loc Wind Power Plant	55	2025-2030	110 kV single-circuit line connecting 110 kV Cao Loc Electrical Substation	QD 262/QD-TTg
4	Cao Loc 3 Wind Power Plant	69	2025-2030	220 kV double-circuit transmission line connecting electrical substation of Cao Loc 3 Wind Power Plant to 220 kV Lang Son Electrical Substation	QD 262/QD-TTg
5	Chi Lang Wind Power Plant	100	2025-2030	220 kV kV double-circuit transmission line connecting 220 kV Lang Son 1 - Dong Mo transmission line in transition	QD 262/QD-TTg
6	Cao Loc 1 Wind Power Plant	50	2025-2030	220 kV double-circuit transmission line connecting 220 kV Lang Son - Bac Giang transmission line in transition	QD 262/QD-TTg
7	Cao Loc 1.1 Wind Power Plant	50	2025-2030	Installation of 1 additional 33/220 kV transformer of 63 MVA capacity at 220 kV step-up electrical substation of Cao Loc 1 Wind Power Plant for connection to Cao Loc 1.1 Wind Power Plant.	QD 262/QD-TTg
8	Dinh Lap Wind Power Plant	100	2025-2030	Construction of 220 kV electrical substation and 220 kV single-circuit transmission line connecting 220 kV	QD 262/QD-TTg

				busbar of Lang Son 1 Electrical Substation	
9	Dinh Lap 1 Wind Power Plant	50	2025-2030	110 kV double-circuit transmission line from 110 kV Dinh Lap 1 Electrical Substation to 110 kV busbar of 220 kV Lang Son 1 Electrical Substation	QD 262/QD-TTg
10	Dinh Lap 1.1 Wind Power Plant	50	2025-2030	Installation of 1 additional 110 kV transformer of 63 MVA capacity at 110 kV step-up electrical substation of Dinh Lap 1 Wind Power Plant for connection to Dinh Lap 1.1 Wind Power Plant	QD 262/QD-TTg
11	Dinh Lap 4 Wind Power Plant	90	2025-2030	220 kV single-circuit transmission line connecting electrical substation of Dinh Lap 4 Wind Power Plant to 220 kV busbar of Lang Son 1 Electrical Substation	QD 262/QD-TTg
12	Dinh Lap 5 Wind Power Plant	100	2025-2030	220 kV double-circuit transmission line connecting electrical substation of Dinh Lap 5 Wind Power Plant to 220 kV busbar of Lang Son 1 Electrical Substation	QD 262/QD-TTg
13	Van Quan 1 Wind Power Plant	50	2025-2030	110 kV double-circuit transmission line connecting 110 kV transmission line of 220 kV Lang Son - Binh Gia Electrical Substation in transition	QD 262/QD-TTg
14	Huu Kien Wind Power Plant	90	2025-2030	220 kV double-circuit transmission line from Huu Kien Wind Power Plant to 220 kV electrical substation of Chi Lang Wind Power Plant	QD 262/QD-TTg
15	Loc Binh Wind Power Plant	60	2025-2030	220 kV double-circuit transmission line connecting 220 kV Lang Son 1 - Dong Mo transmission line in transition	QD 262/QD-TTg
16	Loc Binh - Pharbaco Wind Power Plant	50	2025-2030	220 kV single-circuit transmission line connecting 220 kV electrical substation of Cao Loc Wind Power Plant	QD 262/QD-TTg
17	Loc Binh 1 Wind Power Plant	50	2025-2030	220 kV double-circuit transmission line connecting 220 kV busbar of Lang Son 1 Electrical Substation	QD 262/QD-TTg

18	Loc Binh 3 Wind Power Plant	60	2025-2030	220 kV single-circuit transmission line connecting 220 kV busbar of Lang Son 1 Electrical Substation	QD 262/QD-TTg
19	Thang Long 3 Wind Power Plant	50	2025-2030	220 kV single-circuit transmission line connecting 220 kV busbar of 220 kV Dong Mo Electrical Substation	QD 262/QD-TTg
20	Van Lang 1 Wind Power Plant	80	2025-2030	110 kV single-circuit transmission line connecting 110 kV busbar of 220 kV Lang Son Electrical Substation	QD 262/QD-TTg
21	Van Quan Wind Power Plant	30	2025-2030	110 kV double-circuit transmission line connecting 110 kV Lang Son - 110 kV Dong Mo Station transmission line	QD 262/QD-TTg
	Quang Ninh Province	**370**			
1	Quang Ninh 1 Wind Power Plant	100	2025-2030	220 kV double-circuit transmission line from power plant to 220 kV Quang Ninh 1 station	QD 1682/QD-TTg
2	Quang Ninh 2 Wind Power Plant	70	2025-2030	110 kV single-circuit transmission line connecting 110 kV Van Don 3 station	QD 1682/QD-TTg
3	Quang Ninh 3 Wind Power Plant	50	2025-2030	110 kV single-circuit Quang Ninh 3 Wind Power Plant - 220 kV Hai Ha Electrical Substation transmission line or new construction of 220 kV double-circuit transmission line from power plant to 220 kV Hai Ha Electrical Substation or new construction of 220 kV double-circuit transmission line from power plant to 220 kV Cong Hoa Electrical Substation	QD 1682/QD-TTg
4	Quang Ninh 4 Wind Power Plant	50	2025-2030	110 kV single-circuit Quang Ninh 4 Wind Power Plant - 110 kV Co To station transmission line	QD 1682/QD-TTg
5	Quang Ninh 5 Wind Power Plant	100	2025-2030	220 kV double-circuit transmission line from power plant to 220 kV Mong Cai Electrical Substation	QD 1682/QD-TTg
	Thai Binh Province	**70**			
1	Tien Hai - Thai Binh Wind Power	70	2025-2030		QD 262/QD-

	Plant				TTg
	Thai Nguyen Province	**100**			
1	BPC Vo Nhai Wind Power Plant	100	2025-2030	110 kV transmission line connecting 110 kV Vo Nhai station	QD 1682/QD-TTg
	Son La Province	**400**			
1	Ta Xua - Bac Yen Wind Power Plant	72	2025-2030	220 kV Ta Xua - Bac Yen Wind Power Plant - Hong Ngai - Bac Yen Wind Power Plant transmission line	QD 1682/QD-TTg
2	Hong Ngai - Bac Yen Wind Power Plant	108	2025-2030	220 kV Hong Ngai - Bac Yen transmission line - into Son La - Viet Tri	QD 1682/QD-TTg
3	Phu Yen Wind Power Plant	70	2025-2030	110 kV single-circuit transmission line connecting 220 kV HATACO Bac Yen station	QD 1682/QD-TTg
4	Risen Phu Yen Wind Power Plant	80	2025-2030	220 kV Risen Phu Yen Wind Power Plant transmission line - into Son La - Viet Tri	QD 1682/QD-TTg
5	Thien Vu Bac Yen Wind Power Plant	70	2025-2030	220 kV Thien Vu Bac Yen Wind Power Plant transmission line - into Son La - Viet Tri	QD 1682/QD-TTg
	Thanh Hoa Province	**300**			
1	Bac Phuong - Nghi Son Wind Power Plant	100	2025-2030	220 kV Bac Phuong - Nghi Son Wind Power Plant transmission line - into 220 kV Nong Cong - 220 kV Nghi Son	QD 262/QD-TTg
2	Muong Lat Wind Power Plant	200	2025-2030	220 kV Muong Lat Wind Power Plant - 220 kV Trung Son Hydroelectricity transmission line	QD 262/QD-TTg
	Nghe An Province	**70**			
1	Phase 1 Nam Dan Wind Power Plant	70	2025-2030	220 kV double-circuit transmission line in transition on 220 kV Do Luong - Hung Dong transmission line	QD 262/QD-TTg
	Ha Tinh Province	**700**			
1	HBRE Ha Tinh Wind Farm	120	2025-2030	110 kV double-circuit transmission line connecting 110 kV Ky Anh - Vung Ang transmission line in transition	QD 262/QD-TTg

2	Cam Xuyen 1 Wind Power Plant	70	2025-2030	220 kV double-circuit transmission line in transition on 500/220 kV Ha Tinh transmission line - 220 kV Vung Ang Thermal Power	QD 262/QD-TTg
3	Phase 1 Ky Khang Wind Power Plant	60	2025-2030	220 kV double-circuit transmission line in transition on 220 kV Vung Ang - Ha Tinh transmission line	QD 262/QD-TTg
4	Cam Xuyen 2 Wind Power Plant	100	2025-2030	220 kV double-circuit transmission line in transition on 500/220 kV Ha Tinh - 220 W Vung Ang Thermal Power or 500/220 kV Ha Tinh - 220 kV Formosa Thermal Power transmission line	QD 262/QD-TTg
5	Ky Anh DT2, DT3 Wind Power Plant	99	2025-2030	220 kV double-circuit transmission line in transition on 220 kV Vung Ang - Ha Tinh transmission line	QD 1682/QD-TTg
6	Phase 1 Cam Xuyen Wind Power Plant (land section)	84	2025-2030	220 kV double-circuit transmission line in transition on 220 kV Vung Ang - Ha Tinh transmission line	QD 1682/QD-TTg
7	Ky Nam Wind Power Plant	167	2025-2030	220 kV double-circuit transmission line in transition on 220 kV Vung Ang - Dong Hoi transmission line	QD 1682/QD-TTg
	Quang Binh Province	**520**			
1	Ngu Thuy Bac Tan Hoan Cau Wind Power Plan (shore-based wind power)	80	2025-2030	220 kV double-circuit transmission line of Ngu Thuy Bac Tan Hoan Cau Wind Power connecting 220 kV Le Thuy Electrical Substation or construction of 220 kV double-circuit transmission line from Ngu Thuy Bac Tan Hoan Cau Wind Power Plan to 220 kV Quang Binh 1 Electrical Substation	QD 1682/QD-TTg
2	Thai Duong 1 Wind Power Plant (shore-based wind power)	80	2025-2030	220 kV single-circuit transmission line connecting 220 kV busbar of 220 kV Ba Don Electrical Substation	QD 1682/QD-TTg
3	Hai Ninh Wind Power Complex (shore-based wind power)	80	2025-2030	220 kV double-circuit transmission line to 220 kV Dong Hoi Electrical Substation or 220 kV double-circuit transmission line from Hai Ninh Wind Power Plant to 220 kV Quang Binh 2	QD 1682/QD-TTg

				Electrical Substation	
4	Hal Com Hong Duc Wind Power Plant (shore-based wind power)	80	2025-2030	Transition to 2nd circuit of 220 kV Dong Hoi - Dong Ha transmission line via 220 kV switching station. New construction of 220 kV single-circuit transmission line from 220 kV electrical substation of Halcom Hong Duc Wind Power Plant to 220 kV switching station. New construction of 220 kV switching station connecting to 2nd circuit of 220 kV Dong Hoi - Dong Ha transmission line	QD 1682/QD-TTg
5	Phuc Loc Tho Wind Power Plant (shore-based wind power)	80	2025-2030	Construction of 35/500 kV electrical substation of 900 MVA in total capacity at Phuc Loc Tho Wind Power Plant; construction of 500 kV single-circuit transmission line from Phuc Loc Tho Wind Power Plant to 500 kV busbar of Quang Trach Thermal Power Plant	QD 1682/QD-TTg
6	Quang Binh 2 Wind Farm	30	2025-2030		QD 1682/QD-TTg
7	Thanh Son Wind Power Plant (comprising Thanh Son 1 and Thanh Son 2)	30	2025-2030	Transition on 220 kV Dong Hoi - Ba Don - Formosa transmission line	QD 1682/QD-TTg
8	Le Thuy 3 Wind Power Plant	30	2025-2030	220 kV double-circuit transmission line from Le Thuy 3 Power Plant connecting 220 kV busbar of Le Thuy Electrical Substation	QD 1682/QD-TTg
9	Phase 3 Le Thuy 3 Wind Power Plant	30	2025-2030	220 kV double-circuit transmission line from Le Thuy 3 Power Plant connecting 220 kV busbar of Le Thuy Electrical Substation	QD 1682/QD-TTg
	Quang Ngai Province	**48**			
1	Wind power plants surrounding Binh Son Refinery and Petrochemical	48	2025-2030		QD 1682/QD-TTg

	Quang Tri Province	**448**			
1	LIG Huong Hoa 1 Wind Power Plant	48	2025-2030	220 kV transmission line connecting 220 kV electrical substation of LIG Huong Hoa 1 Wind Power Plant starting from 220 kV electrical substation of LIG Huong Hoa 1 Wind Power Plant and ending at 220 kV electrical substation of Huong Tan Wind Power Plant in Huong Tan Commune, Huong Hoa District, Quang Tri Province	QD 1682/QD-TTg
2	LIG Huong Hoa 2 Wind Power Plant	48	2025-2030	220 kV single-circuit transmission line connecting 35/220 kV electrical substation of LIG Huong Hoa 1 Wind Power Plant. Traveling with 220 kV LIG Huong Hoa 1 Wind Power Plant transmission line to 35/220 kV Huong Tan Electrical Substation.	QD 1682/QD-TTg
3	TNC Quang Tri 1 Wind Power Plant	50	2025-2030	220 kV single-circuit transmission line connecting 220 kV Huong Tan Electrical Substation	QD 1682/QD-TTg
4	TNC Quang Tri 2 Wind Power Plant	50	2025-2030	220 kV four-circuit transmission line from TNC Quang Tri 2 Wind Power Plant to 22/220 kV electrical substation of Quang Tri 1 Wind Power Plant	QD 1682/QD-TTg
5	Quang Tri Win 1 Wind Power Plant	48	2025-2030	New construction of 220 kV Quang Tri Win 1-2 Electrical Substation connecting 220 kV Huong Tan Electrical Substation, expansion of a 220 kV feeder bay of Huong Tan Electrical Substation	QD 1682/QD-TTg
6	Quang Tri Win 2 Wind Power Plant	48	2025-2030	Connecting 220 kV Quang Tri Win 1-2 Electrical Substation	QD 1682/QD-TTg
7	Quang Tri Win 3 Wind Power Plant	48	2025-2030	Construction of 220 kV Quang Tri Win 3 Electrical Substation connecting 220 kV Tai Tam Electrical Substation, expansion of a 220 kV feeder bay in Tai Tam Electrical Substation	QD 1682/QD-TTg
8	Hung Bac Wind Power Plant	30	2025-2030	Connecting 220 kV busbar of 220 kV Tai Tam Electrical Substation	QD 1682/QD-

					TTg
9	TK Power Wind Power Plant	48	2025-2030	220 kV single-circuit transmission line from 35/220 kV step-up electrical substation of TK Power Wind Power Plant to 220 kV electrical substation of Tai Tam Wind Power Plant	QD 1682/QD-TTg
10	Duc Thang 2 Wind Power Plant	42	2025-2030	220 kV single-circuit transmission line connecting 220 kV Tai Tam Electrical Substation	
11	SCI Tan Thanh Wind Power Plant	30	2025-2030	220 kV single-circuit transmission line from SCI Tan Thanh Wind Power Plant to 500 kV Lao Bao Electrical Substation (Huong Hoa). Construction of a 220 kV feeder bay at 500 kV Lao Bao Electrical Substation (Huong Hoa) for connection	QD 1682/QD-TTg
12	Cam Lo Wind Power Plant	200	2025-2030	220 kV transmission line in transition on 220 kV single-circuit Dong Ha -Lao Bao transmission line	
	Kon Tum Province	**154**			
1	Tan Tan Nhat - Dak Glei Wind Power Plant	50	2023-2030		QD 1682/QD-TTg
2	Sac Ly - Kon Tum Wind Power Plant	104	2025-2030	220 kV double-circuit transmission line in transition on 220 kV single-circuit transmission line of 220 kV Bo Y Switching Station - 500 kV Pleiku 2 Electrical Substation	QD 1682/QD-TTg
	Gia Lai Province	**1011,3**			
1	Hung Hai Gia Lai Wind Power Plant	96	2023-2030		QD 1682/QD-TTg
2	Ia Le 1 Wind Power Plant	52,8	2023-2030		QD 1682/QD-TTg
3	Cho Long Wind Power Plant	105,5	2023-2030		QD 1682/QD-TTg
4	Yang Trung Wind Power Plant	145	2023-2030		QD 1682/QD-

					TTg
5	Ia Boong - Chu Prong Wind Power Plant	50	2025-2030	220 kV Ia Boong - Chu Prong - Nhon Hoa 1 Wind Power transmission line	QD 1682/QD-TTg
6	Phu My Wind Power Plant	42	2025-2030	220 kV transmission line connecting 35/220 kV Hoang An Electrical Substation	QD 1682/QD-TTg
7	Hoang An Wind Power Plant	42	2025-2030	220 kV transmission line connecting 500 kV Pleiku 3 Electrical Substation	QD 1682/QD-TTg
8	Xa Trang Wind Power Plant	100	2025-2030	220 kV transmission line connecting 220 kV busbar of 500 kV Pleiku 3 Electrical Substation	QD 1682/QD-TTg
9	Thang Hung Wind Power Plant	42	2025-2030	220 kV transmission line connecting 220 kV busbar of 500 kV Pleiku 3 Electrical Substation	QD 1682/QD-TTg
10	Nhon Hoa 3 Wind Power Plant	42	2025-2030	New installation of a 33/220 kV transformer of 63 MVA capacity at 220 kV step-up electrical substation of Nhon Hoa 1 Wind Power (connected on 220 kV side of 500 kV Nhon Hoa Electrical Substation) for connection with Nhon Hoa 3 Wind Power	QD 1682/QD-TTg
11	Nhon Hoa 4 Wind Power Plant	42	2025-2030	New installation of a 33/220 kV transformer of 63 MVA capacity at 220 kV step-up electrical substation of Nhon Hoa 1 Wind Power (connected on 220 kV side of 500 kV Nhon Hoa Electrical Substation) for connection with Nhon Hoa 4 Wind Power	QD 1682/QD-TTg
12	Ia Ko 1 Wind Power Plant	42	2025-2030	220 kV single-circuit transmission line from busbar of 33/220 kV step-up substation of Ia Ko 1 Wind Power Plant to 220 kV busbar of 500 kV Nhon Hoa Electrical Substation	QD 1682/QD-TTg
13	Ia Ko 2 Wind Power Plant	42	2025-2030	New installation of a 33/220 V transformer of 63 MVA in capacity at 220 kV step-up substation of Ia Ko 1 Wind Power Plant for connection to Ia Ko 2 Wind Power Plant.	QD 1682/QD-TTg
14	Ia Blu 1 Wind	42	2025-2030	220 kV transmission line from 220 kV	QD

	Power Plant			step-up substation of Ia Blu 1 Wind Power Plant in transition on 220 kV transmission line from 500 kV Pleiku 2 - Chu Se - Krong Buk substation	1682/QD-TTg
15	Lo Pang - Gia Lai Wind Power Plant	42	2025-2030	220 kV transmission line in transition on 220 kV Pleiku 2 - An Khe transmission line and 220 kV Pleiku - An Khe Hydroelectricity transmission line	QD 1682/QD-TTg
16	Chu Se 1 Wind Power Plant	42	2025-2030	220 kV transmission line from 220 kV step-up substation of Chu Se 1 Wind Power Plant to 220 kV busbar of 220 kV Chu Se Electrical Substation	QD 1682/QD-TTg
17	Ia Le 2 Wind Power Plant (under Ia Le Wind Power Complex)	42	2025-2030	220 kV transmission line on transition in 220 kV Pleiku 2 - Krong Buk transmission line	QD 1682/QD-TTg
	Dak Lak Province	**862**			
1	Cu Ne 1 Wind Power Plant	50	2025-2030	220 kV transmission line connecting Cu Ne 1 Wind Power, Cu Ne 2 Wind Power, Krong Buk 1 Wind Power, Krong Buk 2 Wind Power via 220 kV electrical substation of Krong Buk Wind Power to 220 kV Pleiku 2 - Krong Buk transmission line	QD 262/QD-TTg
2	Cu Ne 2 Wind Power Plant	50	2025-2030		QD 262/QD-TTg
3	Krong Buk 1 Wind Power Plant	50	2025-2030		QD 262/QD-TTg
4	Krong Buk 2 Wind Power Plant	50	2025-2030		QD 262/QD-TTg
5	Easin 1 Wind Power Plant	100	2025-2030	220 kV double-circuit Easin 1 Wind Power Plant - 220 kV Cu Ne Switching Station transmission line. Construction of 220 kV Cu Ne Switching Station and 220 kV four-circuit Cu Ne transmission line - into Pleiku 2 - Krong Buk (transition on both circuits of 220 kV Pleiku 2 - Krong Buk transmission line)	QD 262/QD-TTg
6	Krong Buk 3 Wind Power Plant	100	2025-2030	Expansion of 1 compartment of transformer in outdoor 35/220 kV step-	QD 262/QD-

				up electrical substation of Ea Sin 1 Wind Power Plant: 1 compartment of 35/220 kV - 125 MVA transformer connecting Krong Buk 3 Wind Power Plant, increasing capacity of step-up substation of Ea Sin 1 Wind Power Plant to 2x125 MVA. Utilizing infrastructures for connecting Ea Sin 1 Wind Power Plant	TTg
7	Thuan Phong Dak Lak Wind Power Plant	100	2025-2030	Transition on 220 kV Krong Buk - Nha Trang transmission line	QD 262/QD-TTg
8	Tan Lap - Ea Ho Wind Power Plant	50	2025-2030	110 kV double-circuit transmission line in transition on 110 kV Krong Buk - Krong Nang transmission line	QD 262/QD-TTg
9	Cu Pong 1, 2 Wind Power Plant	80	2025-2030	220 kV double-circuit transmission line in transition on 1 circuit of 220 kV transmission line from 500 kV Krong Buk substation - 220 kV Krong Buk substation	QD 262/QD-TTg
10	Krong Nang 1.1, 1.2 Wind Power Plant	80	2025-2030	110 kV single-circuit transmission line from 110 kV electrical substation of Krong Nang 1.1 Wind Power Plant connecting 110 kV Krong Nang	QD 262/QD-TTg
11	NT 1, NT 2 Wind Power Plant	75	2025-2030	110 kV single-circuit transmission lien from 110 kV electrical substation of NT 1 Wind Power Plant to 110 kV busbar of 110 kV Krong Pak Electrical Substation	QD 262/QD-TTg
12	Ea Sin Wind Power Plant	77	2025-2030	220 kV Ea Sin Wind Power - 500 kV Ea Sin Electrical Substation transmission line	QD 1682/QD-TTg
	Dak Nong Province	**510**			
1	Tuy Duc Wind Power Plant	50	2025-2030	220 kV transmission line connecting 220 kV Dak Nong Electrical Substation	QD 1682/QD-TTg
2	Tuy Duc 10 Wind Power Plant	60	2025-2030	220 kV double-circuit transmission line of Tuy Duc 10 Wind Power Plant connecting NLMR at 220 kV Dak Nong Electrical Substation	QD 1682/QD-TTg

3	Nam Binh 1	50	2025-2030	Connecting 220 kV busbar of Dak Hoa Wind Power	QD 262/QD-TTg
4	Dak N'Drung 1	100	2025-2030	Connecting 220 kV busbar of 500 kV electrical substation	QD 262/QD-TTg
5	Dak N'Drung 2	100	2025-2030	Connecting 35 kV/220 kV busbar of electrical substation of Dak N'Drung 1 Wind Power	QD 262/QD-TTg
6	Dak N'Drung 3	100	2025-2030	Connecting 35 kV/220 kV busbar of electrical substation of Dak N'Drung 1 Wind Power	QD 262/QD-TTg
7	Asia Dak Song 1	50	2025-2030	Transition on 110 kV Dang Song - Dang Mil transmission line	QD 262/QD-TTg
	Binh Dinh Province	**143**			
1	Van Canh Binh Dinh Wind Power Plant	143	2025-2030	110 kV double-circuit transmission line connecting 110 kV Van Canh Electrical Substation	QD 1682/QD-TTg
	Phu Yen Province	**414**			
1	Phase 1 HBRE An Tho Wind Farm	200	2023-2025	220 kV transmission line connecting 220 kV Tuy Hoa Electrical Substation	QD 262/QD-TTg
2	Phase 1 Song Cau Green Wind Power Plant	50	2023-2025	110 kV transmission line connecting 220 kV Song Cau Electrical Substation	QD 262/QD-TTg
3	Song Cau 2 Wind Power Plant	82	2025-2030		QD 1682/QD-TTg
4	LRSH Son Hoa Wind Power Plant	82	2025-2030	Construction of 220 kV substation of Son Hoa Wind Power Plant and 220 kV ACSR 400 transmission line 24 km in length connecting 220 kV busbar of 220 kV Tuy Hoa electrical substation	QD 1682/QD-TTg
	Khanh Hoa Province	**102**			
1	Nexif Energy Khanh Hoa 1 Wind	102	2025-2030	220 kV double-circuit transmission line transition on 1 circuit of 220 kV	QD 1682/QD-

	Power Plant			Nha Trang - Thap Cham 2 transmission line	TTg
	Ninh Thuan Province	**337,5**			
1	Phuoc Huu Wind Power Plant	50	2023-2027		QD 1682/QD-TTg
2	Phuoc Nam - Enfinity - Ninh Thuan Renewable Energy Power Plant	65	2023-2027	Transition on 1 circuit of 220 kV Vinh Tan - Thap Cham transmission line	QD 1682/QD-TTg
3	Phase 2 extended BIM Wind Power Plant	50	2023-2027	Connecting 220 kV (existing) electrical substation of BIM Wind Power Plant	QD 1682/QD-TTg
4	Tri Hai Wind Power Plant	39,5	2025-2030	Transition on 2nd circuit of 220 kV Nha Trang - Thap Cham 1 transmission line	QD 1682/QD-TTg
5	Partial capacity of Hanbaram Wind Power Plant	93	2023-2030		QD 1682/QD-TTg
6	V2 Wind Power Plant	40	2025-2030	220 kV single-circuit transmission line to 220 kV busbar of 500 kV Thuan Nam Electrical Substation	QD 1682/QD-TTg
	Binh Thuan Province	**497,9**			
1	Hoa Thang 1.2 Wind Power Project	100	2025-2030	Connecting 110 kV Luong Son - Hoa Thang - Mui Ne transmission line	QD 262/QD-TTg, Solution under NQ 233/NQ-CP
2	Phase 2 Phong Dien 1 - Binh Thuan Wind Power Plant	29,7	2025-2030	According to approved plan	
3	Hoa Thang 2.2 Wind Power Plant	19,8	2025-2030	According to approved plan	
4	Hong Phong 2 Wind Power Plant	20	2025-2030	According to approved plan	
5	Han Kiem 2 Wind Power Plant	15	2025-2030	According to approved plan	
6	Phase 2 Hoa Thang 2.2 Wind Power Plant	30	2025-2030	According to approved plan	

7	Phase 3 Phong Dien 1 - Binh Thuan Project	30	2025-2030	New construction of 220 kV of Phong Dien 1 - Binh Thuan Electrical Substation and 220 kV transmission line transition on 220 kV Vinh Tan - Phan Thiet transmission line	
8	Phase 4 Phong Dien 1 - Binh Thuan Project	30	2025-2030	New construction of 220 kV of Phong Dien 1 - Binh Thuan Electrical Substation and 220 kV transmission line transition on 220 kV Vinh Tan - Phan Thiet transmission line	
9	Wind power projects in Tuy Phong District	100	2025-2030	Connection at 110 kV, using transmission system of wind power projects	QD 262/QD-TTg
10	Wind power projects in Bac Binh District	123.4	2025-2030	Connection at 110 kV, using transmission system of wind power projects	QD 262/QD-TTg
	Lam Dong Province	**216,9**			
1	Cau Dat Wind Power Plant	68,9	2023-2030		QD 262/QD-TTg
2	Duc Trong Wind Power Plant	50	2025-2030		QD 262/QD-TTg
3	Xuan Truong 1 Wind Power Plant	50	2025-2030	Connecting Xuan Truong 1 Wind Power Plant to Xuan Truong 2 Wind Power Plant	QD 1682/QD-TTg, the province proposes project site adjustment
4	Xuan Truong 2 Wind Power Plant	48	2025-2030	110 kV transmission line transition on 110 kV Da Nhim - Don Duong transmission line. New construction of 110 kV electrical substation of Xuan Truong 2 Wind Power, 63 MVA in capacity	QD 1682/QD-TTg, the province proposes project site adjustment
	Ba Ria - Vung Tau Province	**103**			
1	Phase 1 Cong Ly Ba	103	2025-2030	110 kV transmission line connecting	QD

	Ria - Vung Tau Wind Power Plant			110 kV Ho Tram Electrical Substation	262/QD-TTg
	Ben Tre Province	**605,8**			
1	Phase 2 Ben Tre No. Wind Power Plant (Thanh Hai 2, 3, 4 Wind Power Plant)	85,8	2023-2030		QD 262/QD-TTg
2	Phase 2, 3 Nexif Ben Tre Wind Power Plant	50	2025-2030		QD 1682/QD-TTg
3	Thanh Phu Wind Power Plant	120	2025-2030	110 kV Thanh Phu Wind Power Plant - 110 kV Binh Thanh Switching Station - 110 kV Binh Thanh transmission line	QD 1682/QD-TTg
4	Bao Thanh Wind Power Plant	50	2025-2030		QD 262/QD-TTg
5	Ben Tre No. 19 Wind Power Plant	50	2025-2030	Construction of 220 kV Binh Dai Electrical Substation of 2x250 MVA + 2x63 MVA (Phase 1: installation of a 63 MVA transformer for connection of Wind Power Plant No. 19 and a 63 MVA transformer for connection of Wind Power Plant No. 20). Expansion of 220 kV feeder bay at 220 kV Ben Tre substation. Construction of 220 kV double-circuit Binh Dai - Ben Tre transmission line 50 km in length	QD 262/QD-TTg
6	Ben Tre No. 20 Wind Power Plant	50	2025-2030	Connecting 63 MVA transformer at 220 kV Binh Dai Electrical Substation (sharing construction costs for 220 kV Binh Dai Electrical Substation and expansion costs for 220 kV feeder bay at 220 kV Ben Tre substation) Sharing construction costs of 220 kV double-circuit Binh Dai - Ben Tre transmission line	QD 262/QD-TTg
7	Hai Phong Wind Power Plant	200	2025-2030		QD 1682/QD-TTg
	Bac Lieu Province	**817**			

1	Japan - Bac Lieu Wind Power Plant	50	2025-2030		QD 262/QD-TTg
2	Phase III Bac Lieu Wind Power Plant	141	2025-2030		QD 262/QD-TTg
3	Hoa Binh 3 Wind Power Plant	50	2025-2030	110 kV transmission line from electrical substation of Hoa Binh 3 Wind Power Plant to 220 kV Hoa Binh substation or 110 kV electrical substation of Hoa Binh 2 Wind Power Plant	QD 262/QD-TTg
4	Hoa Binh 2-1 Wind Power Plant	50	2025-2030	110 kV transmission line from electrical substation of Hoa Binh 2-1 Wind Power Plant to 220 kV Hoa Binh substation or 110 kV electrical substation of Hoa Binh 2 Wind Power Plant	QD 262/QD-TTg
5	Hoa Binh 4 Wind Power Plant	50	2025-2030	110 kV transmission line from electrical substation of Hoa Binh 4 Wind Power Plant to 220 kV Hoa Binh substation or 110 kV electrical substation of Hoa Binh 1 Wind Power Plant	QD 262/QD-TTg
6	Hoa Binh 6 Wind Power Plant	40	2025-2030	220 kV transmission line connecting Hoa Binh 6 Wind Power Plant - Kosy Bac Lieu Wind Power Plant (Phase 1) or connecting 220 kV Hoa Binh Electrical Substation	QD 262/QD-TTg
7	Hoa Binh 8 Wind Power Plant	50	2025-2030	110 kV transmission line connecting electrical substation of Hoa Binh 8 Wind Power Plant to 220 kV Hoa Binh substation or transition on 110 kV Hoa Binh - Bac Lieu transmission line	QD 262/QD-TTg
8	Hoa Binh 5.1 Wind Power Plant	80	2025-2030	220 kV transmission line connecting electrical substation of Hoa Binh 5.1 Wind Power Plant to 220 kV Hoa Binh Substation or connecting 220 kV electrical substation of Hoa Binh 5 Wind Power Plant (Phase 1)	QD 262/QD-TTg
9	Phase 3 Dong Hai 1 Wind Power Plant	50	2025-2030	Connecting 110 kV Hoa Binh 2 Switching Station affiliated to Dong	QD 262/QD-

				Hai Wind Power Plant (sharing 110 kV transmission line from Hoa Binh 2 Switching Station to 110 kV Dong Hai - Hoa Binh transmission line) or 110 kV transmission line connecting electrical substation of Phase 3 Dong Hai 1 Wind Power Plant to 220 kV Gia Rai substation	TTg
10	Dong Hai 6 Wind Power Plant	30	2025-2030	Connecting Dong Hai 6 Wind Power Plant to 220 kV Hoa Binh Electrical Substation	QD 262/QD-TTg
11	Dong Hai 5 Wind Power Plant	36	2025-2030	Connecting 220 kV Hoa Binh Electrical Substation sharing transmission line with Dong Hai 6 Wind Power Plant	QD 262/QD-TTg
12	An Phuc Dong Hai Wind Power Plant	40	2025-2030	Connecting 220 kV Hoa Binh Electrical Substation sharing transmission line with Dong Hai 6 Wind Power Plant	QD 262/QD-TTg
13	Dong Hai 13 Wind Power Plant	100	2025-2030	220 kV transmission line connecting Dong Hai 13 Wind Power Plant to 220 kV Gia Rai transmission line	QD 262/QD-TTg
14	Phase 1 Dong Hai 3 Wind Power Plant	50	2025-2030	110 kV transmission line connecting electrical substation of Phase 1 Dong Hai 3 Wind Power Plant to 110 kV Dong Hai Electrical Substation	QD 262/QD-TTg
	Tien Giang Province	**200**			
1	Tan Thanh Wind Power Plant	100	2025-2030	110 kV substation of Tan Thanh wind power - into Tan Phu Dong 2 wind power - Go Cong Dong; step-up substation of 2x63 MVA	QD 262/QD-TTg
2	Tan Phu Dong 1 Wind Power Plant	100	2023-2030		QD 262/QD-TTg
	Tra Vinh Province	**632,5**			
1	Hiep Thanh Wind Power Plant (remaining part)	64,5	2023-2030		QD 262/QD-TTg. 77,3 MW in total

					capacity, 12,8 MW in operation
2	Dong Thanh 1 Wind Power Plant	80	2025-2030	220 kV transmission line connecting Dong Thanh 1 wind power to 500 kV Duyen Hai substation	QD 262/QD-TTg
3	Dong Thanh 2 Wind Power Plant	120	2025-2030	Combined with Dong Thanh 1 wind power	QD 262/QD-TTg
4	Thang Long Wind Power Plant	96	2025-2030	220 kV single-circuit transmission line connecting 220 kV Duyen Hai Electrical Substation	QD 262/QD-TTg
5	Dong Hai 3 (at V3-3) Wind Power Plant	48	2025-2030	220 kV single-circuit transmission line connecting 220 kV electrical substation of V3-3 wind power to 220 kV electrical substation of Dong Thanh 1 wind power	QD 262/QD-TTg
6	Phase 2 V1-5 and V1-6 Wind Power Plant	80	2025-2030	110 kV double-circuit transmission line connecting 110 kV electrical substation of phase 2 V1-5 and V1-6 wind power transition on 110 kV transmission line connecting Hiep Thanh wind power - V1-3 wind power	QD 262/QD-TTg
7	Duyen Hai 2 Wind Power Plant	96	2025-2030	220 kV transmission line connecting 220 kV busbar of 220 kV Duyen Hai Electrical Substation	QD 262/QD-TTg
8	Wind Power Plant No. 3 (at V3-8)	48	2025-2030	220 kV single-circuit transmission line connecting 220 kV electrical substation of V3-8 wind power to 220 kV busbar of 220 kV electrical substation of V3-7 wind power	QD 262/QD-TTg
	Soc Trang Province	**1143,4**			
1	Lac Hoa 2 Wind Power Plant	123,6			QD 262/QD-TTg
2	Phase 2 Wind Power Plant No. 7	90	2025-2030		QD 1682/QD-TTg
3	Wind Power Plant	100,8	2025-2030		QD

	No. 11				262/QD-TTg
4	Tran De Wind Power Plant	50	2025-2030		QD 262/QD-TTg
5	Song Hau Wind Power Plant	50	2025-2030		QD 262/QD-TTg
6	BCG Soc Trang 1 Wind Power Plant	50	2025-2030		QD 262/QD-TTg
7	Phu Cuong 1A and 1B Wind Power Complex	200	2025-2030		QD 1682/QD-TTg
8	Soc Trang 4 Wind Power Plant	350	2025-2030		QD 1682/QD-TTg
9	Shore-based wind power plants in Vinh Hai Commune, Vinh Chau Commune	129	2025-2030	220 kV double-circuit transmission line connecting 220 kV electrical substation of the project to 220 kV busbar of 220 kV Vinh Chau Electrical Substation	QD 1682/QD-TTg
	An Giang Province	**50**	2025-2030		
1	JR An Giang Wind Power Plant	50	2025-2030		QD 262/QD-TTg
	Ca Mau Province	**860**			
1	Vien An Wind Power Plant	50	2023-2030	110 kV single-circuit transmission line of 110 kV electrical substation of Vien An Wind Power Plant - 110 kV Rach Goc Electrical Substation	QD 262/QD-TTg
2	Ca Mau 1A Wind Power Plant	88	2023-2030		QD 262/QD-TTg
3	Ca Mau 1B Wind Power Plant	88	2023-2030		QD 262/QD-TTg
4	Phase 1 wind power plant of Khai Long - Ca Mau tourist	100	2025-2030	110 kV double-circuit transmission line of 110 kV electrical substation of phase 1 wind power plant of Khai	QD 262/QD-TTg

	attraction			Long - Ca Mau tourist attraction - 110 kV electrical substation of Phase 2 Khai Long Wind Power Plant	
5	An Dong 1 Wind Power Plant	50	2025-2030	110 kV double-circuit transmission line of 110 kV electrical substation of An Dong 1 Wind Power Plant transition on transmission line of Vien An Wind Power Plant - 110 kV Rach Goc Electrical Substation	QD 262/QD-TTg
6	Khanh Binh Tay Wind Power Plant	50	2025-2030	110 kV double-circuit transmission line of 110 kV electrical substation of Khanh Binh Tan Wind Power Plant - 110 kV Tran Van Thoi Electrical Substation	QD 262/QD-TTg
7	Phase 2 Khai Long Wind Power Plant	100	2025-2030	110 kV double-circuit transmission line of 110 kV electrical substation of Phase 2 Khai Long Wind Power Plant - 220 kV Nam Can Electrical Substation	QD 262/QD-TTg
8	Ca Mau 1C Wind Power Plant	88	2025-2030		QD 262/QD-TTg
9	Ca Mau 1D Wind Power Plant	86	2025-2030		QD 262/QD-TTg
10	Phase 3 Khai Long Wind Power Plant	100	2025-2030	110 kV electrical substation of Phase 2 Khai Long Wind Power Plant, additional installation of T3 and T4 transformer; sharing 110 kV transmission line of Phase 2 Khai Long Wind Power Plant	QD 262/QD-TTg
11	Vien An Dong Wind Power Plant	60	2025-2030	110 kV double-circuit transmission line of 110 kV electrical substation of Vien An Dong Wind Power Plant - 220 kV electrical substation of Vien An Wind Power Plant	QD 1682/QD-TTg
	Hau Giang Province	**100**			
1	Long My 1 Wind Power Plant	100	2023-2030		QD 262/QD-TTg
	Kien Giang	**137**			

	Province				
1	Hon Dat 1 Wind Power Plant	77	2025-2030	220 kV transmission line of Hon Dat 1 Wind Power Plant - into Rach Gia - Kien Binh	QD 262/QD-TTg
2	Kien Luong 1 Wind Power Plant	60	2025-2030		QD 262/QD-TTg

Schedule 13: List of land-based, shore-based wind power projects additionally allocated to administrative divisions from time to time

No.	Project	Expected capacity (MW)	Connection plan
	List of projects additionally allocated, entering into operation in 2025 - 2030 period		
	Dien Bien Province	**779**	
1	BCG Dien Bien 2 Wind Power Plant	175	220 kV single-circuit transmission line connecting electrical substation of BCG Dien Bien 2 Wind Power Plant to 220 kV Dien Bien Electrical Substation
2	Envision Nam Po 2 Wind Power Plant	150	Transition on 220 kV Nam Po - Lai Chau transmission line to 500 kV Lai Chau Electrical Substation
3	Muong Ang Wind Power Plant	108	110 kV single-circuit transmission line connecting 110 kV electrical substation of Muong Ang Wind Power Plant to 110 kV Switching Station of 220 kV Dien Bien Electrical Substation
4	(Phase 1) Dien Bien Dong Wind Power Plant	126	220 kV double-circuit transmission line transition on 220 kV transmission line from 220 kV Dien Bien Electrical Substation to 500 kV electrical substation
5	Tia Dinh Wind Power Plant	120	220 kV single-circuit transmission line connecting 220 kV electrical substation of Tia Dinh Wind Power Plant to 220 kV switching station of electrical substation of (Phase 1) Dien Bien Dong Wind Power Plant
6	Muong Cha Wind Power Plant	50	110 kV transmission line transition on 110 kV transmission line of Tuan Giao - 500 kV Lai Chau Electrical Substation
7	Dien Bien Dong Wind Power Plant	50	110 kV transmission line transition on 110 kV transmission line of Song Ma 3 Electrical

			Substation - 110 kV Dien Bien Dong Electrical Substation
	Bac Kan Province	**266**	
1	Huong Ne Wind Power Plant	100	Construction of 110 kV double-circuit transmission line transition on 110 kV Bac Kan - Cao Bang transmission line. New construction of 35/220 kV electrical substation of Huong Ne Wind Power Plant of 1x125 MVA capacity
2	Thuong Quan Wind Power Plant	100	Construction of 110 kV double-circuit transmission line transition on 110 kV Bac Kan - Cao Bang transmission line. New construction of on of 35/220 kV electrical substation of Thuong Quan Wind Power Plant of 1x125 MVA capacity
3	Yen Ha Wind Power Plant	66	New construction of 220 kV single-circuit transmission line from 220 kV substation of Yen Ha Wind Power Plant to 220 kV busbar at 220 kV electrical substation of Thien Long - Cho Moi Wind Power Plant; new construction of 35/220 kV electrical substation of Yen Ha Wind Power Plant of 1x75 MVA
	Yen Bai Province	**160**	
1	Tram Tau Wind Power	60	110 kV single-circuit transmission line from 110 kV electrical substation of Tram Tau Wind Power Plant to 110 kV feeder bay of 220 kV Nghia Lo Electrical Substation.
2	Tram Tau 1 Wind Power	100	220 kV single-circuit transmission line from 220 kV electrical substation of Tram Tau 1 Wind Power Plant to 220 kV Nghia Lo Electrical Substation.
	Quang Ninh Province	**300**	
1	Phase 2 Quang Ninh 1 Wind Power Plant	100	220 kV double-circuit transmission line to 220 kV Quang Ninh 1 substation
2	Wind power plant in Binh Lieu District, Tien Yen District	100	220 kV double-circuit transmission line to 220 kV Hai Ha substation. Or construction of 220 kV double-circuit transmission line to 220 kV Cong Hoa substation
3	Wind power plant in Mong Cai City	100	220 kV double-circuit transmission line to 220 kV Mong Cai Electrical Substation
	Son La Province	**503**	
1	Mai Son Wind Power	128	Transition on 220 kV transmission line from 220

			kV Son La Electrical Substation - 500 kV Son La Electrical Substation
2	Tay Phu Yen Wind Power Plant	100	Transition on 220 kV Son La - Viet Tri transmission line
3	Muong Sam Wind Power	150	220 kV transmission line connecting 220 kV Song Ma Electrical Substation
4	Bac Yen 1 Wind Power	125	Construction of 220 kV double-circuit transmission line transition on 220 kV Son La - Viet Tri transmission line
	Thanh Hoa Province	**245**	
1	Thai Hai Hung Wind Power	30	220 kV double-circuit transmission line connecting Thai Hai Hung Wind Power Project to 220 kV Sam Son Electrical Substation
2	Hoang Hoa Wind Power Plant	115	220 kV transmission line from 220 kV electrical substation of the project to 220 kV Hau Loc Electrical Substation
3	Nghi Son 1 Wind Power Plant	50	Connecting existing 220 kV/110 kV grid
4	Nghi Son 2 Wind Power Plant	50	Connecting existing 220 kV/110 kV grid
	Nghe An Province	**200**	
1	Phase 2 Nam Dan Wind Power Plant	130	Sharing 220 kV Do Luong - Hung Dong transmission line (built in phase 1 of the project)
2	Huynh Lap 2 Wind Power	70	110 kV single-circuit transmission line of Quynh Lap 2 Wind Power Plant connecting 110 kV Hoang Mai Electrical Substation
	Ha Tinh Province	**1604,5**	
1	Ky Anh DT1 Wind Power Plant	49.5	220 kV single-circuit transmission line connecting DT2 Wind Power Plant
2	Eco Wind Ky Anh Wind Power Plant	498	500 kV double-circuit transmission line in transition on 500 kV Ha Tinh - Vung Ang transmission line
3	Ky Ninh - Ha Tinh Wind Power Plant	198	220 kV double-circuit transmission line in transition on 220 kV Vung Ang - Ha Tinh transmission line
4	Ho Da Cat Wind Power Plant	40	220 kV double-circuit transmission line in transition on 220 kV Ha Tinh - Vung Ang transmission line

5	Phase 2 Ky Khang Wind Power Plant	60	220 kV single-circuit transmission line connecting Phase 1 Ky Khang Wind Power Plant
6	Phase 2 Cam Xuyen Wind Power Plant (shore-based)	84	Sharing investment with 220 kV double-circuit transmission line transition on 220 kV Vung An - Ha Tinh transmission line
7	Ky Anh Wind Power Plant	400	500 kV double-circuit transmission line transition on third circuit of 500 kV transmission line
8	Ky Anh 1 Wind Power Plant	65	220 kV double-circuit transmission line in transition on 220 kV Ha Tinh - Vung Ang transmission line
9	Ky Anh 2 Wind Power Plant	50	220 kV double-circuit transmission line in transition on 220 kV Ha Tinh - Vung Ang transmission line
10	Ky Anh 3 Wind Power Plant	50	110 kV single-circuit transmission line connecting 110 kV busbar of 220 kV electrical substation of Ky Anh 1 Wind Power Plant
11	Ky Anh 4 Wind Power Plant	60	220 kV double-circuit transmission line in transition on 220 kV Ha Tinh - Vung Ang transmission line
12	Extended Ky Anh 3 Wind Power Plant	50	220 kV single-circuit transmission line connecting DT3 Wind Power Plant
	Quang Binh Province	**997,5**	
1	Ngu Thuy Bac Tan Hoan Cau Wind Power Plan (shore-based wind power)	120	220 kV double-circuit transmission line of Ngu Thuy Bac Tan Hoan Cau Wind Power connecting 220 kV Le Thuy Electrical Substation or construction of 220 kV double-circuit transmission line from Ngu Thuy Bac Tan Hoan Cau Wind Power Plan to 220 kV Quang Binh 1 Electrical Substation
2	Thai Duong 1 Wind Power Plant (shore-based wind power)	120	220 kV single-circuit transmission line connecting 220 kV busbar of 220 kV Ba Don Electrical Substation
3	Hai Ninh Wind Power Complex (shore-based wind power)	118	220 kV double-circuit transmission line to 220 kV Dong Hoi Electrical Substation or 220 kV double-circuit transmission line from Hai Ninh Wind Power Plant to 220 kV Quang Binh 2 Electrical Substation
4	Hal Com Hong Duc Wind Power Plant (shore-based wind power)	120	Transition on 2nd circuit of 220 kV Dong Hoi - Dong Ha transmission line via 220 kV switching station. New construction of 220 kV single-circuit

			transmission line from 220 kV electrical substation of Halcom Hong Duc Wind Power Plant to 220 kV switching station. New construction of 220 kV switching station connecting to 2nd circuit of 220 kV Dong Hoi - Dong Ha transmission line
5	Phuc Loc Tho Wind Power Plant (shore-based wind power)	120	Construction of 35/500 kV electrical substation of 900 MVA in total capacity at Phuc Loc Tho Wind Power Plant; construction of 500 kV single-circuit transmission line from Phuc Loc Tho Wind Power Plant to 500 kV busbar of Quang Trach Thermal Power
6	Quang Binh 1 Wind Power Plant	70	Connecting 110 kV single-circuit Tuyen Hoa Electrical Substation
7	Quang Binh 2 Wind Farm	70	Transition on 220 kV Ba Don - Formosa Thermal Power transmission line
8	Thanh Son Wind Power Plant (comprising Thanh Son 1 and Thanh Son 2)	60	Transition on 220 kV Dong Hoi - Ba Don - Formosa transmission line
9	Phu Dinh Wind Power Plant	69	110 kV single-circuit transmission line from 110 kV step-up substation of Phu Dinh Wind Power Plant to 110 kV Bac Dong Hoi substation
10	Le Thuy 3 Wind Power Plant	110.5	220 kV double-circuit transmission line from Le Thuy 3 Power Plant to 220 kV busbar of Le Thuy Electrical Substation. Or construction of 110 kV transmission line, electrical substation connecting 110 kV transmission line, electrical substation of Le Thuy District
11	Phase 3 Le Thuy 3 Wind Power Plant - capacity increase	20	220 kV double-circuit transmission line from Le Thuy 3 Power Plant to 220 kV busbar of Le Thuy Electrical Substation. Or 110 kV transmission line, electrical substation of wind power plant connecting to 110 kV transmission line, electrical substation of Le Thuy District, Quang Ninh Province
	Quang Tri Province	**493,4**	
1	SCI Tan Thanh (remaining section)	12	Sharing connection with SCI Tan Thanh Wind Power Plant
2	Hung Bac (remaining section)	40	Connecting 220 kV busbar of 220 kV Tai Tam Electrical Substation
3	Tan Hop 1	50	Connecting 110 kV electrical substation of Tan Hop Wind Power Plant

4	Extended Phong Lieu	35	Connecting 220 kV Huong Tan Electrical Substation
5	AMACCAO - Quang Tri 2	48	220 kV transmission line of Amaccao Quang Tri 2 - expanded feeder bay of Amaccao Quang Tri 1 Wind Power Plant
6	Phuc Thanh An Quang Tri	48	Connecting 220 kV Huong Tan Electrical Substation
7	My Anh Quang Tri 1	48	Connecting 220 kV busbar of 220 kV Lao Bao Electrical Substation
8	SCI Ba Tang 1 Wind Power Plant	25	Connecting 220 kV busbar of 220 kV SCI Tan Thanh Electrical Substation via single-circuit transmission line
9	Quang Tri Win 5	48	New construction of medium-voltage transmission line connecting 35 kV side of 35/220 kV Quang Tri Win 5-6 Electrical Substation 125 MVA in capacity
10	Quang Tri Win 6	48	New construction of 220 kV Quang Tri Win 5-6 Electrical Substation, 125 MVA in capacity; new construction of 220 kV single-circuit transmission line connecting Quang Tri Win 5-6 Electrical Substation to 220 kV Lao Bao Electrical Substation (Huong Hoa)
11	Phuc Thanh An Vinh Phuc	30	Connecting 220 kV Huong Tan Electrical Substation
12	Duc Thang 2 (remaining section)	20	220 kV single-circuit transmission line connecting 220 kV electrical substation of Tai Tam Wind Power Plant
13	TK Power (remaining section)	20	220 kV single-circuit transmission line connecting 220 kV electrical substation of Tai Tam Wind Power Plant
14	Cam Lo 1	36	220 kV transmission line of Cam Lo 1 Wind Power Plant - Dong Ha
15	Licogi 16 - Quang Tri	30	220 kV transmission line of Licogi 16 Wind Power Plant - Quang Tri - Lao Bao
	Kon Tum Province	**430,75**	
1	Phase 1 Chu Hreng Wind Power	150	220 kV double-circuit transmission line connecting 220 kV feeder bay of 500 kV Kon Ray Electrical Substation
2	Phase 2 Sac Ly - Kon Tum	96	Connecting 220 kV electrical substation of Sac Ly

	Wind Power		- Kon Tum Wind Power Plant Installation of 1 electrical substation of 1x125 MVA at 220 kV electrical substation of Sac Ly - Kon Tum Wind Power Plant
3	Kon Plong Wind Power	103.5	35/220 kV step-up substation of Kon Plong Wind Power Plant, 150 MVA in capacity. Construction of 220 kV Kon Plong Switching Station to combine electrical production of Kon Plong Wind Power Plant and connect to national electrical system. New construction of 220 kV single-circuit transmission line from 35/220 kV electrical substation of Kon Plong Wind Power Plant to 220 kV busbar of Kon Plong Switching Station. Construction of 220 kV four-circuit transmission line from 220 kV Kon Plong Switching Station transition on two circuits of 220 kV transmission line of Thuong Kon Tum Hydroelectricity - 220 kV Quang Ngai
4	Dak To Re Wind Power	81.25	Transition on 110 kV Kon Tum - Kon Plong transmission via 110 kV transmission line; alternatives: connecting 500 kV Kon Ray Electrical Substation
	Gia Lai Province	**849**	
1	Chu Se - Envision Wind Power Plant	40	Transition on a circuit of 220 kV Chu Se - Krong Buk (2nd circuit) transmission line
2	Phase 2 Ia Blu Wind Power Plant	42	Connecting Phase 2 Ia Blu 1 Wind Power Plant to 220 kV electrical substation of Ia Blu 1 Wind Power Plant
3	Chu Puh 1.1 Wind Power Plant	45	New construction of 220 kV step-up substation of Chu Puh 1.1 Wind Power Plant, 125 MVA. 220 kV single-circuit transmission line from 220 kV electrical substation of Chu Puh Wind Power Plant connecting 220 kV step-up Ia Boong - Chu Prong Electrical Substation. New construction of medium-voltage transmission line connecting Chu Puh 1.1 Wind Power Plant
4	Chu Puh 1.2 Wind Power Plant	45	New construction of medium-voltage transmission line connecting medium-voltage side of 220 kV step-up substation of Chu Puh 1.1 Wind Power Plant
5	TNE 1 Wind Power Plant	45	New construction of 220 kV step-up substation of TNE 1 Wind Power Plant, 63 MVA. 220 kV

			single-circuit transmission line from 220 kV electrical substation of TNE 1 Wind Power Plant to 220 kV Chu Puh 1.1 Electrical Substation. New construction of medium-voltage transmission line connecting TNE 1 Wind Power Plant
6	TNE 2 Wind Power Plant	45	New installation of a 33/220 kV transformer of 63 MVA at 220 kV step-up substation of TNE 1 Wind Power Plant to connect to TNE 2 Wind Power Plant. New construction of medium-voltage transmission to connect TNE 2 Wind Power Plant
7	TNE 3 Wind Power Plant	45	New installation of a 33/220 kV transformer of 63 MVA at 220 kV step-up substation of TNE 1 Wind Power Plant to connect to TNE 3 Wind Power Plant. New construction of medium-voltage transmission to connect TNE 3 Wind Power Plant
8	Phase 2 Xa Trang Wind Power Plant	100	Connecting via 220 kV transmission line to 500 kV Pleiku 3 Electrical Substation
9	Bo Ngoong Wind Power Plant	100	Connecting via 220 kV transmission line to 500 kV Pleiku 3 Electrical Substation
10	Phase 2 Thang Hung Wind Power Plant	38	Connecting via 220 kV transmission line to 500 kV Pleiku 3 Electrical Substation
11	Phase 2 Phu My Wind Power Plant	38	Connecting via 220 kV transmission line from Phu My Wind Power Plant to 220 kV electrical substation of Hoang An Wind Power Plant to 500 kV Pleiku 3 Electrical Substation
12	An Thanh Gia Lai Wind Power Plant	40	Connecting via 220 kV transmission line of An Thanh Gia Lai Wind Power Plant via four-circuit poles in transition on 220 kV Pleiku - An Khe Biomass transmission line and 220 kV Pleiku 2 - An Khe transmission line
13	Ia Dreng 1 - Chu Puh Wind Power Plant	40	Connecting via 220 kV single-circuit transmission line from step-up 35/220 kV substation of Ia Dreng 1 - Chu Puh Wind Power Plant to 220 kV busbar of 220 kV Chu Se Electrical Substation
14	Ia Hla Wind Power Plant	40	Connecting via 220 kV single-circuit transmission line to 500 kV Nhon Hoa Electrical Substation
15	Ia Blu 1 - Chu Puh Wind Power Plant	40	Connecting via 220 kV transmission line to 500 kV Nhon Hoa Electrical Substation, (if investment stages of 500 kV Ia Blu Electrical Substation are changed before 2030, connect to this substation instead)

16	Ia Blu 2 - Chu Puh Wind Power Plant	40	Connecting via 220 kV transmission line to 500 kV Nhon Hoa Electrical Substation, (if investment stages of 500 kV Ia Blu Electrical Substation are changed before 2030, connect to this substation instead)
17	Phase 2 Hoang An Wind Power Plant	28	Connecting via 220 kV transmission line from Hoang An Wind Power Plant to 500 kV Pleiku 3 Electrical Substation
18	Phase 2 Chu Se 1 Wind Power Plant	38	Connecting via 220 kV transmission line from Chu Se 1 Wind Power Plant to 220 kV Chu Se Electrical Substation
	Dak Lak Province	**985**	
1	Krong Ana 1 Wind Power Plant	160	220 kV single-circuit transmission line from 220 kV electrical substation of Krong Ana 1 Wind Power Plant to 220 kV Krong Ana Electrical Substation (Cu Kuin)
2	Phase II Buon Ho 3 Wind Power Plant;	100	220 kV transmission line connecting 220 kV Krong Buk Electrical Substation
3	E&M Dak Lak Wind Power Plant	95	220 kV double-circuit transmission line transition on 220 kV Krong Buk - Nha Trang transmission line
4	Phase 1 Thanh Phong Wind Power Plant	100	220 kV double-circuit transmission line transition on 220 kV Krong Buk - Pleiku 2 transmission line
5	Ea Sin 2 Wind Power Plant	250	220 kV double-circuit transmission line connecting 500 kV electrical substation of Ea Nam Wind Power Plant
6	Phase 1 Thuan Phong 2 Wind Power Plant	100	220 kV double-circuit transmission line transition on 220 kV transmission line of 500 kV Krong Buk substation - Krong Buk
7	HLP Krong Nang Wind Power	50	Connecting via 110 kV busbar of 110 kV step-up HLP Ea Hleo 1 Electrical Substation
8	Phase 1 Chu Kbo Wind Power Plant	50	220 kV single-circuit transmission line connecting from Chu Kbo Wind Power Plant to 500 kV electrical substation of Ea Nam Wind Power Plant
9	Phase 1 Dlie Ya-Krong Nang Wind Power Plant Project	80	110 kV single-circuit transmission line from 110 kV electrical substation of wind power plant to 110 kV distribution system of 220 kV Krong Buk Electrical Substation
	Binh Dinh Province	**1233**	

1	Phase 1 Hon Trau Wind Power Plant	750	220 kV double-circuit transmission line from 220 kV Hon Trau 1 Electrical Substation (at HT1A) to 220 kV Phu My Electrical Substation and new construction of 220 KV double-circuit transmission line from 220 kV Hon Trai 1 Electrical Substation (at HT1B) to 220 kV Nhon Hoi Electrical Substation
2	Vinh Thuan Wind Power Plant	143	110 kV double-circuit transmission line from 110 kV electrical substation of Vinh Thuan Wind Power Plant to 110 KV Switching Station of 110 kV Don Pho Electrical Substation
3	Van Canh 1 Wind Power Plant	160	220 kV four-circuit transmission line from 220 kV electrical substation of Van Can 1 Wind Power transition on 220 kV Quy Nhon - An Khe Hydroelectricity transmission line and 220 kV Phuoc An - An Khe Hydroelectricity transmission line
4	Van Canh 2 Wind Power Plant	180	220 kV single-circuit transmission line from 220 kV electrical substation of Van Canh 2 Wind Power to 220 kV Switching Station 220 kV electrical substation of Van Can 1 Wind Power
	Phu Yen Province	**300**	
1	Phase 2 Song Cau 2 Wind Power Project	38	220 kV single-circuit transmission line from 220 kV electrical substation of Song Cau Wind Power Plant to 220 kV electrical substation of Song Cau 1 Wind Power Plant
2	Phase 1 Song Cau 1 Wind Power Project	50	Connecting 220 kV Song Cau Electrical Substation, 220 kV single-circuit transmission line
3	Son Long Wind Power Plant	50	110 kV transmission line connecting 110 kV Phu Hoa Electrical Substation
4	EaBar Wind Power Project	50	220 kV transmission line transition on 220 kV Krong Buk - Song Ba Ha transmission line
5	Phase 2 LRSH Son Hoa Wind Power Project	18	Construction of 220 kV Son Hoa MDG substation and 220 kV ACSR400 transmission line connecting 220 kV Tuy Hoa Electrical Substation
6	VICO Wind Power Project	44	Connecting 220 kV Tuy Hoa Electrical substation, 220 kV transmission line
7	LRSC Song Cau Wind Power Project	50	Connecting 220 kV Song Cau Electrical Substation, 110 kV single-circuit transmission line
	Khanh Hoa Province	**200**	

1	TDX Khanh Hoa 1 Wind Power Plant	100	220 kV double-circuit transmission line transition on 220 kV Nha Trang - Thap Cham transmission line
2	EEC Khanh Hoa Wind Power Plant	100	Connecting 2 circuits of 220 kV Nha Trang - Thap Cham transmission line
	Ninh Thuan Province	**1039**	
1	Phase 2 Tri Hai Wind Power	39.5	Transition on 2nd circuit of 220 kV Nha Trang - Thap Cham transmission line from Phase 1
2	Bac Son Wind Power	60.5	220 kV transmission line from Bac Son Wind Power Plant transition on 2nd circuit of 220 kV Nha Trang - Thap Cham transmission line
3	Nui Mot Lake Wind Power	50	32(22) kV six-circuit transmission line from power plant to 220 kV electrical substation of Nui Mot Lake 2 Solar Power Plant; Increase capacity of 220 kV electrical substation of Nui Mot Lake 2 Solar Power Plant to (100 + 125) MVA
4	Phase 3 extended BIM Wind Power	120	Connecting 220 kV electrical substation of BIM Wind Power Plant (existing); expansion of T2 33/33/200 W electrical substation, 200 MVA at reserved location of 220 kV electrical substation of BIM Wind Power Plant Investment in expansion of 220 kV feeder bays at 220 kV electrical substation of BIM Wind Power Plant in line with T2 electrical substation and electrical connection diagram at 220 kV electrical substation of BIM Wind Power Plant. Investment in expansion of a 220 kV feeder bay at Quan The Switching Station (278). Installation of 2nd circuit of 220 kV BIM Wind Power Plant - Quan The Switching Station transmission line
5	Extended V2 Wind Power	769	220 kV double-circuit transmission line of Phuoc Dinh Sea Wind Power - 500 kV Thuan Nam Electrical Substation
	Binh Thuan Province	**242**	
1	Wind power plant in sea area close to Tuy Phong District, Bac Binh	100	Connecting 220 kV electrical grid in project's vicinity
2	Wind power plant in sea area close to Ham Thuan Nam District, Ham Tan District, La Gi Province-	142	Connecting 220 kV electrical grid in project's vicinity

	affiliated City		
	Lam Dong Province	**200**	
1	Phase 2 Cau Dat Wind Power Project	200	Construction of 22/220 kV step-up substation, 2x125 MVA; 22kV single-circuit transmission line from 220 kV substation to 220 kV switching station, 220 kV Da Nhim Switching Station, expansion of feeder bay of 220 kV transmission line, Da Nhim 220 kV Switching Station.
	Ba Ria - Vung Tau Province	**100**	
1	Phase 3 Xuyen Moc Shore-based Wind Power Plant	100	110 kV transmission line connecting 110 kV switching station of 220 kV Phuoc Thuan Electrical Substation
	Ben Tre Province	**500**	
1	Wind power plant of Ba Tri District	50	110 KV transmission line of wind power plant of Ba Tri District - 220 kV Binh Dai transmission line
2	Wind power plant of Binh Dai 1 District	50	110 kV transmission line of wind power plant of Binh Dai 1 - 220 kV Binh Dai transmission line
3	Wind power plant of Binh Dai 2 District	50	110 kV transmission line of wind power plant of Binh Dai 2 - 220 kV Binh Dai transmission line
4	Wind power plant of Binh Dai 3 District	100	110 kV transmission line of wind power plant of Binh Dai 3 - 220 kV Binh Dai transmission line
5	Thanh Phu 1 Wind Power Plant	125	110 kV transmission line of Thanh Phu 1 Wind Power Plant - 220 kV Thanh Phu transmission line
6	Thanh Phu 2 Wind Power Plant	75	110 kV transmission line of Thanh Phu 2 Wind Power Plant - 220 kV Thanh Phu transmission line
7	Thanh Phu 3 Wind Power Plant	50	110 kV transmission line of Thanh Phu 3 Wind Power Plant - 220 kV Thanh Phu transmission line
	Bac Lieu Province	**270**	
1	Phase 4 Dong Hai 1 Wind Power Plant	50	220 kV transmission line from Phase 4 Dong Hai 1 Wind Power Plant to 220 kV electrical substation of Dong Hai 13 Wind Power Plant
2	Phase 2 Dong Hai 13 Wind Power Plant	70	Connecting 220 kV Gia Rai substation, sharing connection with Dong Hai 13 Wind Power Plant
3	Phase 2 Dong Hai 3 Wind Power Plant	50	Installation of transformers for Phase 2 Dong Hai 3 Wind Power Plant in 110 kV substation
4	Phase 2 Hoa Binh 6 Wind Power Plant	100	220 kV transmission line from Phase 2 Hoa Binh 6 Wind Power Plant to 220 kV Hoa Binh Electrical

			Substation
	Tien Giang Province	**100**	
1	Tan Thanh 2 Wind Power	100	220 kV transmission line connecting 220 kV Go Cong Electrical Substation
	Tra Vinh Province	**1402**	
1	Extended Wind Power Plant No. 3 (at V3-8) Project	160	Additional installation of 2 transformers of 2x90 mVA at 220 kV electrical substation of Wind Power Plant No. 3 (at V3-8). Sharing transmission infrastructures of Wind Power Plant No. 3
2	Extended Dong Hai 3 Wind Power Plant (at V3-3) Project	120	220 kV transmission line connecting, sharing 220 kV substation and transmission line infrastructure from Dong Hai 3 Wind Power Plant (at V3-3) to 500 kV Duyen Hai Electrical Substation
3	Wind power plant at V3-6 project	275	Construction of 220 kV electrical substation of V3-6 Wind Power and 220 kV single-circuit transmission line connecting 220 kV electrical substation of V3-6 Wind Power to 220 kV busbar of 220 kV electrical substation of V3-7 Wind Power
4	V3-5 Wind Power Plant Project	120	New construction of 220 kV electrical substation of V3-5 Wind Power Plant and 220 kV single-circuit transmission line connecting 220 kV electrical substation of V3-5 Wind Power to 220 kV busbar of 220 kV electrical substation of V3-6 Wind Power
5	V3-7 Wind Power Plant Project	329	New construction of 220 kV electrical substation of V3-7 Wind Power Plant and 220 kV four-circuit transmission line connecting 220 kV electrical substation of V3-7 Wind Power Plant transition on 220 kV transmission line from Duyen Hai - Tra Vinh Thermal Power
6	Dong Hai 4 Wind Power Plant	148	Transition on 220 kV Dong Hai 3 Wind Power - Dong Thanh 1 Wind Power transmission line
7	V3-2 Wind Power Plant	250	Construction of 220 kV electrical substation of V3-2 Wind Power and 220 kV transmission line connecting V3-2 Wind Power; Connecting 220 kV busbar of 220 kV Tra Vinh 3 Electrical Substation and a circuit connected to 220 kV busbar of 220 kV substation of Dong Hai 3 Wind Power
	Soc Trang Province	**988**	

1	Vinh Hai 1 Wind Power	400	220 kV transmission line from 220 kV electrical substation of shore-based Vinh Hai Wind Power Plant to 220 kV Vinh Chau Electrical Substation (using existing connection infrastructures of shore-based wind power plant project in Vinh Hai Commune, Vinh Chau Province-affiliated City - 129 MW).
2	Vinh Hai 2 Wind Power	270	220 kV transmission line from 220 kV electrical substation of project to 220 kV Tran De Electrical Substation
3	Lac Hoa 3 Wind Power	50	Utilizing existing infrastructure, expansion of busbar of 110 kV electrical substation of Phase 1 Lac Hoa Wind Power Plant with additional installation of transformers
4	My Thanh Wind Power	68	New construction of 110 kV electrical substation of the project. 110 kV double-circuit transmission line from 110 kV electrical substation of the project to 110 kV electrical substation of My Thanh Industrial Park
5	Vinh Tan Wind Power	200	Utilize existing infrastructure, extend busbar of 220 kV electrical substation - Phu Cuong Song Trang 1A and 1B Wind Power Plant Complex
	An Giang Province	**50**	
1	An Giang 2 Wind Power Plant	50	110 kV single-circuit transmission line connecting 110 kV electrical substation of An Giang 1 Wind Power Plant
	Ca Mau Province	**387**	
1	Ngoc Hien - Vien An Wind Power Plant	100	110 kV double-circuit transmission line of electrical substation of Ngoc Hien Wind Power Plant - Vien An - 220 kV electrical substation of Vien An Wind Power Plant
2	Ngoc Hien - Tam Giang Tay Wind Power Plant	100	110 kV double-circuit transmission line of electrical substation of Ngoc Hien - Tam Giang Tay Wind Power Plant - 220 kV Ca Mau 3 Electrical Substation
3	Ngoc Hien - Rach Goc Wind Power Plant	60	110 kV single-circuit transmission line of 110 kV electrical substation of Ngoc Hien - Rach Goc Wind Power Plant - 110 kV Rach Goc Electrical Substation
4	Ngoc Hien - Dat Mui Wind	67	110 kV double-circuit transmission line of 110 kV

	Power Plant		electrical substation of Ngoc Hien - Dat Mui Wind Power Plant - 220 kV electrical substation of Vien An Wind Power Plant
5	Ngoc Hien - Tan An 1 Wind Power Plant	60	110 kV double-circuit transmission line of electrical substation of Ngoc Hien - Tan An 1 Wind Power Plant - 220 kV Ca Mau 3 Electrical Substation
	Hau Giang Province	**100**	
1	Sao Mai 1 Wind Power	100	110 kV single-circuit transmission line transition on 110 kV Long My - Hong Dan transmission line
	Kien Giang Province	**171**	
1	Wind power plant (II) at Hon Dat District	43	Transition on 220 kV Rach Gia 2 - Kien Binh transmission line
2	Kien Luong 2 Wind Power Plant	65.6	110 kV transmission line connecting 110 kV electrical substation of Kien Luong 1 transmission line
3	An Bien, An Minh Wind Power Plant	62.4	Transition on 110 kV An Bien - Lai Son transmission line
	Hue City	**100**	
1	Phong Dien Wind Power Plant	100	220 kV double-circuit transmission line from 220 kV electrical substation of Phong Dien Wind Power Plant to 220 kV Phong Dien substation
	Khanh Hoa Province	**200**	
1	TDX Khanh Hoa 1 Wind Power Plant	100	220 kV double-circuit transmission line connecting 220 kV substation of TDX Khanh Hoa 1 Wind Power transition on 220 kV Nha Trang - Thap Cham circuit
2	EEC Khanh Hoa Wind Power Plant	100	Connecting 2nd circuit of 220 kV Nha Trang - Thap Cham transmission line
	Quang Nam Province	**100**	
1	Quang Nam 1 TDX Wind power project	100	110 kV transmission line 10,5 km in length connecting 22/110 kV step-up substation to 220 kV Tam Ky Electrical Substation
	Long An Province	**73**	
1	Phase 1 Chau Thanh Wind Power Plant	73	110 kV double-circuit Chau Thanh Wind Power - 110 kV Tam Vu 2 substation transmission line
	List of projects additionally allocated, entering into operation in 2031 - 2035 period		

	Kon Tum	**100**	
1	Phase 2 Chu Hreng Wind Power	100	220 kV double-circuit transmission line connecting 220 kV feeder bay of 500 kV Kon Ray Electrical Substation
	Gia Lai	**2039,5**	
1	Ia Phang 1 Wind Power Plant	100	Connecting via 220 kV double-circuit transmission line from 22/220 kV step-up substation of Ia Phang 1 Wind Power Plant transition on 1 circuit of 220 kV Chu Se - Krong Pa transmission line
2	TNE 3A Wind Power Plant	49.5	New installation of a 33/220 kV transformer of 63 MVA at 220 kV step-up substation of TNE 1 Wind Power Plant for connection with TNE3A Wind Power Plant Addition of a circuit on 220 kV Ia Boong Chu Prong - 500 kV Nhon Hoa Electrical Substation transmission line
3	TNE 5 Wind Power Plant	49.5	New installation of a 33/220 kV transformer of 63 MVA at 220 kV step-up substation of TNE 1 Wind Power Plant for connection with TNE5 Wind Power Plant
4	Ia Rong 1 Wind Power Plant	49.5	Construction of 33/220 kV step-up substation of Ia Rong 1 Wind Power Plant, 63 MVA. Construction of 220 kV single-circuit transmission line connecting 33/220 kV transmission line of Ia Rong 1 Wind Power Plant to 33/220 kV step-up substation of TNE 1 Wind Power Plant
5	Ia Rong 2 Wind Power Plant	49.5	New installation of a 33/220 kV transformer, 63 MVA at 220 kV step-up substation of Ia Rong 1 Wind Power Plant for connection with Ia Rong 2 Wind Power Plant
6	Ia Rong 3 Wind Power Plant	49.5	New installation of a 33/220 kV transformer, 63 MVA at 220 kV step-up substation of Ia Rong 1 Wind Power Plant for connection with Ia Rong 3 Wind Power Plant
7	Ia Rong 3A Wind Power Plant	49.5	New installation of a 33/220 kV transformer, 63 MVA at 220 kV step-up substation of Ia Rong 1 Wind Power Plant for connection with Ia Rong 3A Wind Power Plant
8	Ia Ko 3 Wind Power Plant	49.5	New installation of a 33/220 V transformer of 63

			MVA in capacity at 220 kV step-up substation of Ia Ko 1 Wind Power Plant for connection to Ia Ko 3 Wind Power Plant
9	Ia Ko 3A Wind Power Plant	49.5	New installation of a 33/220 V transformer, 63 MVA in capacity at 220 kV step-up substation of Ia Ko 1 Wind Power Plant for connection to Ia Ko 3A Wind Power Plant
10	Phase 3 Xa Trang Wind Power Plant	100	Connection via 220 kV transmission line of Xa Trang Wind Power Plant - 500 kV Pleiku 3 Electrical Substation
11	Phase 2 Bo Ngoong Wind Power Plant	115	Connection via 220 kV double-circuit transmission line from 220 kV step-up substation of Bo Ngoong Wind Power Plant to 220 kV switching station of 500 kV Pleiku 2 Electrical substation
12	Ia Tor Wind Power Plant	50	110 kV single-circuit transmission line from 22/110 kV step-up substation of Ia Tor Wind Power Plant to 110 kV busbar of 220 kV electrical substation of Thang Hung Wind Power Plant
13	Ia Blu 1 - Chu Puh Wind Power Plant	50	Connecting via 220 kV transmission line to 500 kV Nhon Hoa Electrical Substation, (if investment stages of 500 kV Ia Blu Electrical Substation are changed before 2030, connect to this substation instead)
14	Ia Blu 2 - Chu Puh Wind Power Plant	50	Connecting via 220 kV transmission line to 500 kV Nhon Hoa Electrical Substation, (if investment stages of 500 kV Ia Blu Electrical Substation are changed before 2030, connect to this substation instead)
15	Phase 2 Ia Boong - Chu Prong Wind Power Plant	150	Connection via 220 kV double-circuit transmission line from 22/220 kV step-up substation of Phase 2 Ia Boong - Chu Prong Wind Power Plant to 220 kV busbar of 500 kV Pleiku 2 substation
16	Phuoc Son Wind Power Plant	50	Connection via 220 kV single-circuit transmission line from 35/220 kV substation of Phuoc Son Wind Power Plant to 220 kV busbar of 220 kV substation of Phu My Wind Power Plant
17	Yang Trung 2 Wind Power Plant	49.5	Connecting Yang Trung 2 Wind Power Plant via 220 kV single-circuit transmission line to 220 kV busbar of 220 kV step-up substation of Cho Long Wind Power Plant
18	H'Bong 1 - Chu Se Wind	50	Connecting via 220 kV double-circuit transmission

	Power Plant		line from 35/220 kV substation of H'Bong 1 - Chu Se Wind Power Plant transition on 220 kV Chu Se - 220 kV Krong Pa transmission line
19	Mang Yang 3.1, Mang Yang 3.2, Mang Yang 3.3 Wind power project complex	300	500 kV double-circuit transmission line from 500 kV Mang Yang Electrical Substation - 500 kV Pleiku Electrical Substation, 220 kV transmission line from 220 kV Mang Yang 3.3 Electrical Substation to 220 kV of Mang Yang 2 Wind Power Plant
20	Gia Lai Wind Power Plant	49	Connecting via 220 kV transmission line to 500 kV Pleiku 3 Electrical Substation
21	Nam Ham Rong Wind Power Plant	40	Connecting via 220 kV double-circuit transmission line from 22/220 kV step-up substation of Nam Ham Rong Wind Power Plant transition on 220 kV transmission line of Ia Boong Chu Prong Wind Power Plant - 500 kV Pleiku 2
22	An Thanh Gia Lai Wind Power Plant	40	Connecting via 220 kV transmission line of An Thanh Gia Lai Wind Power Plant via four-circuit poles in transition on 220 kV Pleiku - An Khe Biomass transmission line and 220 kV Pleiku 2 - An Khe transmission line
23	Ia Le 3 Wind Power Plant	50	Connecting via 220 kV double-circuit transmission line transition on existing 220 kV Pleiku 2 - Krong Buk transmission line
24	HE Gia Lai Wind Power Plant	100	Connecting via 220 kV single-circuit transmission line from 35/110/220 kV electrical substation of HE Gia Lai Wind Power Plant (built at 04) to 220 kV busbar of 220 kV Chu Se Electrical Substation
25	Tay Ho - Chu Prong Wind Power Plant	50	110 kV single-circuit transmission line from Tay Ho - Chu Se Wind Power Plant to 110 kV substation of Mountainous Region Development Wind Power Plant
26	Dak Jo Ta Wind Power Plant	50	220 kV double-circuit transmission line from 220 kV substation of Dak Jo Ta - Ayun Wind Power Plant complex transition on 220 kV Pleiku 2 - An Khe Hydroelectricity transmission line
27	Ayun Wind Power Plant	50	220 kV double-circuit transmission line from 220 kV substation of Dak Jo Ta - Ayun Wind Power Plant complex transition on 220 kV Pleiku 2 - An Khe Hydroelectricity transmission line.
28	Capacity increase of HBRE	50	Additional installation of a 22(35)/110 kV

	Chu Prong Wind Farm (50 MW to 100 MW)		transformer, 63 MVA at existing reservation for transformer at 110 kV electrical substation of HBRE Gia Lai Wind Farm
29	K'Bang A, K'Bang B Wind Power Complex	100	Construction of 220 kV single-circuit transmission line from 35/220 kV step-up substation at K'Bang A, K'Bang B Wind Power Complex to 220 kV An Khe Electrical Substation
	Dak Lak	**945**	
1	Krong Ana 2 Wind Power Plant	160	220 kV single-circuit transmission line from 220 kV step-up substation of Krong Ana 1 Wind Power Plant to 220 kV switching station of 220 kV Krong Ana (Cu Kuin) Electrical Substation
2	Phase III Buon Ho 3 Wind Power Plant;	150	Sharing transmission infrastructure of Phase 2
3	Phase 2 Thanh Phong Wind Power Plant	100	Sharing transmission infrastructure of Phase 1
4	Phase 2 E&M Dak Lak Wind Power Plant	105	Sharing transmission infrastructure of Phase 1
5	Phase 2 Thuan Phong 2 Wind Power Plant	100	Sharing transmission infrastructure of Phase 1
6	GETEC Dak Lak Wind Power Complex	100	Connecting 220 kV busbar of 220 kV substation of AMI AC Dak Lak via 220 kV single-circuit transmission line
7	AMI AC Dak Lak 1 Wind Power Plant	100	220 kV four-circuit transmission line from 220 kV substation of AMI AC Dak Lak Wind Power Complex transition on 220 kV Krong Buk - Serepok 4 Hydroelectricity transmission line and from 220 kV Krong Buk substation to 220 kV Buon Kuop Hydroelectricity substation
8	Ea Hleo RWP Wind Power	80	220 kV double-circuit transmission line transition on Thanh Phong Wind Power Plant - Pleiku 2 transmission line
9	HLP Ea Hleo 1 Wind Power	50	220 kV double-circuit transmission line transition on 220 kV Krong Buk - Pleiku 2 transmission line
	Tra Vinh	**400**	
1	Extended Duyen Hai 3 Wind Power Plant Project	170	New construction of 220 kV substation of coastal Duyen Hai Wind Power Plant
2	Phase 2 Thang Long Wind Power Plant Project	100	Installation of step-up transformer at Thang Long Tra Vinh Wind Power Plant, transition on Thang

			Long Tra Vinh Wind Power Plant transmission line
3	Extended Duyen Hai 2 Wind Power Plant Project	130	Transition on 220 kV substation of Duyen Hai 2 Wind Power Plant connecting 220 kV Duyen Hai Substation
	Ca Mau	**942**	
1	Ngoc Hien - Vien An Dong Wind Power Plant	100	110 kV double-circuit transmission line of 110 kV substation of Ngoc Hien - Vien An Dong Wind Power Plant transition on 110 kV transmission line of Vien An Dong Wind Power Plant - An Dong 1 Wind Power Plant
2	Ngoc Hien - Tan An 2 Wind Power Plant	150	110 kV double-circuit transmission line of Ngoc Hien - Tan An 2 Wind Power Plant - 220 kV Ca Mau 3 Electrical Substation
3	Ngoc Hien - Tan An 3 Wind Power Plant	142	110 kV double-circuit transmission line of Ngoc Hien - Tan An 3 Wind Power Plant - 220 kV Ca Mau 3 Electrical Substation
4	Ngoc Hien - Tam Giang Tay Wind Power Plant	200	110 kV double-circuit transmission line of Ngoc Hien - Tam Giang Tay 1 Wind Power Plant - 220 kV Ca Mau 3 Electrical Substation
5	Nam Can - Tam Giang Dong Wind Power Plant	100	110 kV double-circuit transmission line of Nam Can - Tam Giang Dong Wind Power Plant - 220 kV Ca Mau 3 Electrical Substation
6	Ngoc Hien - Dat Mui 1 Wind Power Plant	50	110 kV double-circuit transmission line of electrical substation of Ngoc Hien - Dat Mui 1 Wind Power Plant - 110 kV electrical substation of Ngoc Hien - Dat Mui Wind Power Plant
7	Ngoc Hien - Khai Long 4 Wind Power Plant	100	110 kV double-circuit transmission line of Ngoc Hien - Khai Long 4 Wind Power Plant transition on a circuit of transmission line of Ngoc Hien - Dat Mui Wind Power Plant - 220 kV electrical substation of Vien An Wind Power Plant
8	Tran Van Thoi - Phong Dien Wind Power Plant	50	110 kV double-circuit transmission line of 110 kV electrical substation of Tran Van Thoi - Phong Dien Wind Power Plant - 110 kV Song Doc Electrical Substation
9	U Minh - Khanh Tien Wind Power Plant	50	110 kV double-circuit transmission line of U Minh - Khanh Tien Wind Power Plant - 110 kV U Minh Electrical Substation
	Bac Lieu	**351**	

1	Hoa Binh 9 Wind Power Plant	200	220 kV transmission line from Hoa Binh 9 Wind Power Plant to 220 kV Hoa Binh Electrical Substation
2	Phase 1 Hoa Binh - Dong Hai 1 Wind Power Plant	151	220 kV transmission line from Hoa Binh - Dong Hai 1 Wind Power Plant to 220 kV Hoa Binh 9 Electrical Substation
	Tien Giang	**226**	
1	Tan Thanh 2 Wind Power	226	New construction of 220 kV transmission line connecting 220 kV Go Cong Electrical Substation

Schedule 14: List of centralized solar power projects

No.	Project	Expected capacity (MW)	Operating period		Connection plan	Note
	An Giang Province	**80**				
1	An Cu Solar Power Plant	40	2025-2030		No connection plan yet	Resolved in accordance with Resolution No. 233/NQ-CP
2	An Giang Solar Power Plant	80	2025-2030		No connection plan yet	
	Ba Ria - Vung Tau Province	**50**				
1	Phu My Solar Power Plant	50	2025-2030		110 kV transmission line connecting existing 110 kV electrical substation	
	Bac Giang Province	**100**				
1	Yen The Solar Power Plant	50	2025-2030		110 kV single-circuit transmission line connecting extended 110 kV busbar of 110 kV Cau Go Electrical Substation	
2	Da Ong Lake and Cau Re Lake Solar Power Plant	50	2025-2030		110 kV single-circuit transmission line connecting 110 kV busbar of 110 kV Cau Go	

					Electrical Substation	
	Bac Lieu Province	**50**				
1	Combined An Phuc Dong Hai Solar Power Plant and Battery Storage	50	2025-2030		110 kV double-circuit transmission line connecting electrical substation of combined An Phuc Dong Hai Solar Power Plant and Battery Storage to 110 kV feeder bay of 220 kV Gia Rai substation	
	Ben Tre Province	**50**				
1	Ben Tre Solar Power Plant	50	2025-2030		110 kV Ben Tre Solar Power Plant - 220 kV Binh Dai	
	Binh Dinh Province	**500**				
1	Hoai Duc Solar Power Plant	50	2025-2030		New construction of 110 kV double-circuit transmission line from step-up substation of Hoai Duc Solar Power Plant transition on 110 kV Hoai Nhon - Phu My transmission line	
2	Hoai Thanh Solar Power Plant	60	2025-2030		Construction of 110 kV double-circuit transmission line from step-up substation of Hoai Thanh Solar Power Plant transition on 110 kV Hoai Nhon - Tam Quang transmission line	
3	Nui Mot Lake Solar Power Plant	100	2025-2030		Construction of 110 kV double-circuit transmission line from step-up substation of Nui Mot Lake Solar Power Plant to existing 110 kV busbar of 110 kV Nhon Tan Electrical Substation	
4	Phu My 1 Industrial	100	2025-		Connecting via 35 kV or	

	Park Solar Power Plant		2030		22 kV to 220 kV Phu My 2 Electrical Substation (at Phu My Industrial Park)	
5	Phu My 2 Industrial Park Solar Power Plant	100	2025-2030		Connecting via 35 kV or 22 kV to 220 kV Phu My 2 Electrical Substation (at Phu My Industrial Park)	
6	Binh An 1 Solar Power Plant	90	2025-2030		Connecting via 35 kV or 22 kV to 220 kV Phu My 2 Electrical Substation (at Phu My Industrial Park)	
	Binh Duong Province		**50**	**1200**		
1	Extended Bau Bang Industrial Park	50	2025-2030		22 kV double-circuit transmission line	
2	Cay Truong Industrial Park	50		2031-2035	22 kV double-circuit transmission line	
3	Bau bang 4 Industrial Park	50		2031-2035	22 kV double-circuit transmission line	
4	Bau bang 5 Industrial Park	50		2031-2035	22 kV double-circuit transmission line	
5	Dau Tieng 1A Industrial Park	50		2031-2035	22 kV double-circuit transmission line	
6	Dau Tieng 4 Industrial Park	50		2031-2035	22 kV double-circuit transmission line	
7	Dau Tieng 5 Industrial Park	50		2031-2035	22 kV double-circuit transmission line	
8	Bac Tan Uyen 4 Industrial Park	50		2031-2035	22 kV double-circuit transmission line	
9	Bac Tan Uyen 5 Industrial Park	50		2031-2035	22 kV double-circuit transmission line	
10	Phu Giao 3 Industrial Park	50		2031-2035	22 kV double-circuit transmission line	
11	Phu Giao 1 Industrial Park	50		2031-2035	22 kV double-circuit transmission line	
12	Binh Duong Riverside ISC Industrial Park	50		2031-2035	22 kV double-circuit transmission line	

13	Tan Uyen 3 Industrial Park	50		2031-2035	22 kV double-circuit transmission line	
14	Long Tan Solar Power Plant	600		2031 - 2035	- Construction of 220 kV electrical substation of Long Tan Solar Power Plant - Construction of 220 kV single-circuit transmission line from Long Tan Solar Power Plant to Dau Tieng 1A Industrial Park - Construction of 220 kV single-circuit transmission line from Long Tan Solar Power Plant to Dau Tieng 4 Industrial Park. - Construction of 220 kV single-circuit transmission line from Long Tan Solar Power Plant to An Lap, An Lap 2, An Lap 3 industrial complex. - Construction of 220 kV single-circuit transmission line from Long Tan Solar Power Plant to Long Tan industrial complex. - Construction of 220 kV single-circuit transmission line from Long Tan Solar Power Plant to Long Hoa 1, 2 industrial complex. - Construction of 220 kV single-circuit transmission line from Long Tan Solar Power Plant to Thanh An 1, 2, 3 industrial complex.	
	Binh Phuoc Province	**708,4**		**3650,2**		

1	MT1 Solar Power Plant	24	2025-2030		Connecting 110 kV Hoa Lu Substation (or switching station adjacent to 110 kV Hoa Lu Electrical Substation)	Resolved in accordance with Resolution No. 233/NQ-CP
2	MT2 Solar Power Plant	24	2025-2030		Connecting 110 kV switching station of electrical substation of MT1 Solar Power Plant	
3	Loc Thanh 1-1 Solar Power Plant	40	2025-2030		Connecting via 110 kV to 110 kV Hoa Lu Electrical Substation	
4	Hai Ly Binh Phuoc Solar Power	40	2025-2030		Connecting 220 kV Loc Tan Switching Station	
5	Floating Solar Power Plant on Srok Phu Mieng Hydroelectricity Reservoir (150 MWp)	120	2025-2030		110 kV transmission line connecting 110 kV feeder bay at 220 kV Binh Long 2 Substation	
6	Phase 2 Thac Mo Solar Power Plant (100 MWp)	80	2025-2030		Connecting 22 kV double-circuit transmission line of existing Thac Mo Solar Power Plant and 220 kV transmission line of Binh Long 2 - 500 kV Dak Nong	
7	Phuoc Hoa Solar Power Plant (76 MWp)	60,4	2025-2030		Connecting 220 kV feeder bay at 500 kV Chon Thanh Electrical Substation	
8	Thac Mo 2 Solar Power Plant (150 MWp)	120	2025-2030		Connecting 220 kV transmission line of Dong Binh - into Binh Long - into aluminum electrolysis	
9	Asia Thac Mo Floating Solar Power Plant (Floating Thac Mo 5 Solar Power) 200 MWp	160	2025-2030		Construction of 220 kV Dong Binh Phuoc Electrical Substation, 200+300 MVA (a 300 MVA transformer for Asia Thac Mo 2 Floating Solar Power Plant); Construction 220 kV four-circuit	

					transmission line from 220 kV Dong Binh Phuoc Electrical Substation transition on 2 circuits of 220 kV Binh Long - Dak Nong Aluminum Electrolysis transmission line.	
10	Minh Tam Solar Power Plant (50 MWp)	40	2025-2030		Connecting feeder bay at 220 kV busbar of 500 kV Chon Thanh Electrical Substation	
11	Phuoc Hoa Solar Power Plant (174 MWp)	139,2		2031-2035	Connecting 220 kV feeder bay at 500 kV Chon Thanh Electrical Substation	
12	Phase 2 Thac Mo Solar Power Plant (275 MWp)	220		2031-2035	Connecting 220 kV transmission line of Binh Long 2 - 500 kV Dak Nong	
13	Thac Mo 1 Solar Power Plant (200 MWp)	160		2031-2035	Connecting 220 kV transmission line of Dong Binh - into Binh Long - into aluminum electrolysis	
14	Asia Thac Mo 2 Floating Solar Power Plant (Floating Thac Mo 6 Solar Power) 300 MWp	240		2031-2035	Construction of 220 kV Dong Binh Phuoc Electrical Substation, 200+300 MVA (a 300 MVA transformer for Asia Thac Mo 2 Floating Solar Power Plant); Construction 220 kV four-circuit transmission line from 220 kV Dong Binh Phuoc Electrical Substation transition on 2 circuits of 220 kV Binh Long - Dak Nong Aluminum Electrolysis transmission line.	
15	Thac Mo Binh Phuoc Floating Solar Power Complex (400	320		2031-2035	Transition on 220 kV Binh Long 2 - 500 kV Dak Nong transmission line	

	MWp)					
16	Can Don Floating Solar Power Plant (350 MWp)	280		2031-2035	Construction of 110 kV step-up substation of Floating Solar Power Plant of Can Don Hydroelectricity Reservoir, 1x63 MVA. Construction of 110 kV double-circuit transmission line from 110 kV step-up substation of Floating Solar Power Plant of Can Don Hydroelectricity Reservoir transition on 110 kV transmission line of Bu Dop - Can Don Hydroelectricity	
17	Phase 2 Solar Power Plant of Srok Phu Mien Lake (125 MWp)	100		2031-2035	Connecting 220 kV feeder bay at 220 kV Phuoc Long substation	
18	Minh Tam Solar Power Project (300 MWp)	240		2031-2035	Connecting feeder bay at 220 kV busbar of 500 kV Chon Thanh Electrical Substation	
19	Loc Ninh 6, 7, 9, 10, 11, 12 Solar Power Projects (1,000 MWp)	800		2031-2035	Connecting 220 kV Loc Ninh - Binh Long 2 transmission line	
20	Tan Hung 1 Solar Power Project (55 MWp)	44		2031-2035	Connecting 220 kV Loc Ninh - Binh Long 2 transmission line	
21	Tan Hung 2 Solar Power Project (55 MWp)	44		2031-2035	Connecting 220 kV Loc Ninh - Binh Long 2 transmission line	
22	Loc Thien Solar Power Plant (500 MWp)	395		2031-2035	Connecting 220 kV Loc Ninh - Binh Long 2 transmission line	
23	Hai Ly Binh Phuoc Solar Power Plant (180 MWp)	144		2031-2035	Connecting 220 kV Loc Ninh - Binh Long 2 transmission line	
24	Gianty Alpha	40		2031-	Connecting 220 kV Loc	

	Group 1 Solar Power Plant (50 MWp)			2035	Ninh - Binh Long 2 transmission line	
25	Gelex 2 Solar Power Plant (210 MWp)	165		2031-2035	Connecting AT2 transformer of 22/220 kV step-up substation of Gelex Binh Phuoc 1 Solar Power	
26	Tan Long Solar Power Plant (40 MWp)	32		2031-2035	Connecting 220 kV Loc Ninh - Binh Long 2 transmission line	
27	Khang Nam Solar Solar Power Plant (90 MWp)	72		2031-2035	Connecting 220 kV Loc Ninh - Binh Long 2 transmission line	
28	Ninh Phuoc Solar Power Plant (100 MWp)	80		2031-2035	Connecting 220 kV Loc Ninh - Binh Long 2 transmission line	
29	Fecon Solar Power Plant (48,8 MWp)	39		2031-2035	Connecting 220 kV Loc Ninh - Binh Long 2 transmission line	
30	Loc Ninh Solar Power Plant (50 MWp)	40		2031-2035	Connecting 220 kV Loc Ninh - Binh Long 2 transmission line	
31	Nam La Solar Power Plant (100 MWp)	80		2031-2035	Connecting 220 kV Loc Ninh - Binh Long 2 transmission line	
32	An Khang Binh Phuoc Solar Power Plant (1000 MWp)	80		2031-2035	Connecting 220 kV Loc Ninh - Binh Long 2 transmission line	
	Binh Thuan Province		**524**	**266**		
1	Song Binh Solar Power Plant Project	200	2025-2030		- 110 kV transmission line from power plant to 110 kV transmission line of Dai Ninh - Phan Ri Hydroelectricity - If aforementioned connection plan is not feasible or not practical, consider additional	Resolved in accordance with Resolution No. 233/NQ-CP

					connection plan for 220 kV Song Binh Substation and 220 kV transmission line connected to 220 kV Vinh Tan - Phan Thiet transmission line.	
2	Hong Liem 6.1 Solar Power Plant Project	40	2025-2030		110 kV transmission line connecting electrical substation of Hong Liem 3 Solar Power	
3	Tan Xuan Solar Power Plant Project	23,61	2025-2030		110 kV transmission line connecting 110 kV switching station of 220 kV Ham Tan Electrical Substation	
4	Phase 2 Da Mi Solar Power Project	70	2025-2030		Utilizing transmission system of (existing) Da Mi Hydroelectricity Plant	
5	Phase 1 Ham Thuan Solar Power Project	100	2025-2030		Utilizing transmission system of (existing) Ham Thuan Hydroelectricity Plant	
6	Combined Hong Phong 7 Solar Power Plant Project and Battery Storage	40	2025-2030		220 kV double-circuit transmission line transition on a circuit of 220 kV Vinh Tan - Phan Thiet transmission line; 22/220 kV electrical substation	Battery storage of 50 MW/150 MWh in capacity
7	Vinh Hao 6.2 Solar Power Plant Project	110	2025-2030		New construction of 22/110 kV VH6.2 Electrical Substation; New construction of 110 kV transmission line of VH6.2 - VH6 Switching Station; New construction of 110/220 W electrical substation at 110 kV VH6 Switching Station; New construction of 220 kV transmission line of VH6 - transition on a circuit of 220 kV Vinh Tan - Phan Ri transmission line	

8	Combined Hong Phong 7.2 Solar Power Plant Project and Battery Storage	24	2025-2030		Additional installation of a 22/220 kV transformer at 220 kV electrical substation of Hong Phong 7 Solar Power Plant	Storage battery of 20 MW/60 MWh in capacity
9	Phase 1 Song Binh 4 Solar Power Plant Project	130	2025-2030		Proposed connection to 220 kV Song Binh Electrical Substation connected to 220 kV Vinh Tan - Phan Thiet transmission line	
10	Tan Duc 1 Solar Power Plant Project	50	2025-2030		Connecting 110 kV Ham Tan 2 - Tan Duc transmission line	
11	Phase 2 Ham Thuan Solar Power Project	126		2031-2035	Utilizing transmission system of (existing) Ham Thuan Hydroelectricity Plant	
12	Phase 3 Da Mi Solar Power Project	30		2031-2035	Utilizing transmission system of (existing) Da Mi Hydroelectricity Plant	
13	Phase 2 Song Binh 4 Solar Power Plant Project	70		2031-2035	Connecting 220 kV Song Binh Electrical Substation and to 220 kV Vinh Tan - Phan Thiet transmission line	
	Ca Mau Province					
1	Ngoc Hien Solar Power Plant	50	2026-2030		110 kV double-circuit transmission line of Ngoc Hien Solar Power Plant - 220 kV Nam Can; extension of 110 kV feeder bay of 220 kV Nam Can Electrical Substation	
	Da Nang City					
1	Solar Power Plant Project in Hoa Vang	50	2026-2030		110 kV double-circuit transmission line transition on 110 kV transmission line to 171 line to Cau Do Electrical Substation - to 171 line to 500 Da Nang	

					Electrical Substation	
	Dak Lak Province		**3010**	**4907**		
1	KN Srepok 3 Solar Power	304	2025-2030		New construction of 500 kV double-circuit transmission line transition on 500 kV Pleiku 2 - Chon Thanh transmission line	Resolved in accordance with Resolution No. 233/NQ-CP
2	Ea Sup 1 Solar Power	40	2025-2030		No connection plan yet	
3	Ia Lop 1 Solar Power	40	2025-2030		No connection plan yet	
4	Solar Power Plant on Srepok 3 Hydroelectricity	50	2028		New construction of 220 kV single-circuit transmission line connecting 220 kV electrical substation of (existing) Srepok 3 Hydroelectricity Plant	
5	Solar Power Plant on Buon Kuop Hydroelectricity Reservoir	50	2028		New construction of 110 kV single-circuit transmission line connecting 110/220 kV substation of (existing) Buon Kuop Hydroelectricity Plant	
6	Phase 1 Solar Power Plant on Ea Sup Thuong Lake	452	2025-2030		- Construction of 220 kV double-circuit transmission line connecting 500 kV Krong Buk Electrical Substation. - Expansion of two 220 kV feeder bays at 500 kV Krong Buk Electrical Substation.	
7	Solar Power Plant on Krong Buk Ha Lake	200	2025-2030		Krong Buk Ha 1 (50 MW): New construction of 110 kV double-circuit transmission line transition on 110 kV Ea Kar - Krong Buk transmission line.	

					Krong Buk Ha 2 (150 MW): New construction of 220 kV double-circuit transmission line transition on 1st circuit of 220 KV Krong Buk - Nha Trang transmission line.	
8	Floating Solar Power Plant on Krong H'nang Hydroelectricity Lake	100	2025-2030		New construction of 220 kV double-circuit transmission line connected via 2 circuits of 220 kV Ba Ha River - Krong Buk transmission line	
9	Solar Power Plant on Ea H'leo Hydroelectricity Reservoir	150	2025-2030		New construction of 220 kV four-circuit transmission line connected to 220 kV busbar of 500 kV electrical substation of Ea Nam Wind Power Plant	
10	Ea Sup 1 Solar Power Plant	50	2025-2030		New construction of 110 kV single-circuit transmission line connected to busbar of 110 kV Cu Mgar Electrical Substation	
11	Ia Lop 1 Solar Power Plant	50	2025-2030		New construction of 110 kV single-circuit transmission line connected to 110 kV busbar of 500 kV electrical substation of Xuan Thien - Ea Sup Solar Power Plant	
12	Solar Power Plant Complex of sub-sector 293, Cu M'lan Commune	500	2025-2030		500 kV double-circuit transmission line transition on 500 kV Pleiku 2 - Chon Thanh transmission line	
13	Jang Pong 2 Solar Power Plant	50	2025-2030		110 kV single-circuit transmission line connected to 110 kV electrical substation of existing Jang Pong Solar	

					Power Plant	
14	Ia Rve Solar Power Plant (comprising 4 plants numbered 1 to 4)	1000	2025-2030		Construction of 110 kV transmission line connected to 110 kV side of 500 kV Xuan Thien - Ea Sup Electrical Substation; Extension of 500 kV electrical substation of Xuan Thien - Ea Sup Solar Power, 900 MVA	
15	Phase 1 Solar Power Plant incorporating herbal medicinal plant	230	2025-2030		New construction of 220 kV single-circuit transmission line connected to 500 kV Ea Nam Electrical Substation	
16	Buon Don Solar Power Plant	48	2025-2030		220 kV double-circuit transmission line transition on 220 kV transmission line of Srepok 4A Hydroelectricity - Srepok 4 Hydroelectricity	
17	Phase 2 Solar Power Plant on Ea Sup Thuong Lake	500		2031-2035	Sharing connection line in Phase 1	
18	Solar Power Plant on Ea Sup Ha Lake	150		2031-2035	New construction of 220 kV transmission line connected to 500 kV Cu Mgar Electrical Substation	
19	Land-based and semi-flooded BCG Vu Bon Solar Power Plant	187		2031-2035	Connecting at 220 kV to 500 kV Renewable Energy 2 Electrical Substation	
20	Rung Xanh Solar Power Plant	1100		2031-2035	Construction of 220 kV double-circuit transmission line connected to 500 kV Cu Mgar Electrical Substation	
21	Ea Sup Solar Power Plant (comprising 5 plants numbered 1 to 5)	1400		2031-2035	Construction of 110 kV transmission lines connected to 110 kV sides of 500 kV Xuan Thien - Ea Sup Electrical Substation;	

					Expansion of 500 kV electrical substation of Xuan Thien - Ea Sup Solar Power, 900 MVA; New construction of 500 kV double-circuit transmission line transition on (2^{nd} circuit of) 500 kV Pleiku 2 - Chon Thanh transmission line	
22	Phase 2 Solar Power Plant incorporating herbal medicinal plant	220		2031-2035	Sharing connection line in Phase 1	
23	Cu Kbang Solar Power Plant Complex	500		2031-2035	Construction of 220 kV double-circuit transmission line connected to 500 kV Cu Mgar Electrical Substation	
24	Ea Hleo Solar Power Plant	50		2031-2035	Construction of 220 kV double-circuit transmission line connected to 220 kV Krong Buk - Pleiku 2 transmission line	
25	Ea Huar Solar Power Plant	50		2031-2035	Construction of 110 kV single-circuit transmission line connected to 110 kV busbar of 110 kV Buon Don Electrical Substation	
26	VK Solar Power Plant 100 MWp	100		2031-2035	Construction of 110 kV double-circuit transmission line transition on 110 kV Cu M'gar - Buon Don transmission line	
27	Ia JLoi Solar Power Plant	200		2031-2035	Construction of 220 kV double-circuit transmission line connected to 500 kV Cu Mgar Electrical Substation	
28	Ea Bung Solar Power Plant	450		2031-2035	Construction of 220 kV double-circuit transmission line connected to 500 kV	

					Cu Mgar Electrical Substation	
	Dak Nong Province	**893**				
1	KN Buon Tua Srah Solar Power Plant	312	2025-2030		Phase 1: Construction of 220 kV electrical substation of Buon Tua Srah Floating Solar Power Plant 125 MVA; Construction of 220 kV transmission line of Buon Tua Srah Floating Solar Power Plant - 220 kV electrical substation of Buon Tua Srah Hydroelectricity; Expansion of a 220 kV feeder bay at distribution yard of Buon Tua Srah Hydroelectricity Plant; Phase 2: Installation of the 2nd transformer, 250 MVA at electrical substation of Buon Tua Srah Floating Solar Power; Increasing capacity of 220 kV Buon Kuop - Buon Tua Srah - Dak Nong transmission line	Resolved in accordance with Resolution No. 233/NQ-CP
2	Cu Knia Solar Power Plant	144	2025-2030		Construction of 22/220 kV step-up substation at Cu Knia Solar Power Plant, 160 MVA; Construction of 220 kV switching station close to expected connection points on 220 kV Buon Kuop - Aluminum Electrolytic Plant transmission line Construction of 220 kV single-circuit transmission line from 22/220 kV step-up substation of Cu Knia Solar Power Plant to 220	

					kV switching station	
3	Ea Tlinh Solar Power Plant	76	2025-2030		Construction of 22/110 kV step-up substation at Ea Tling Solar Power Plant, (40+63) MVA; Construction of 110 kV double-circuit transmission line from 22/110 kV step-up substation of Ea Tling Solar Power Plant transition on 110 kV Buon Kuop - Krong No transmission line	
4	Xuyen Ha Solar Power Plant	104	2025-2030		Construction of 22/220 kV step-up substation at Xuyen Ha Solar Power Plant, 1x125 MVA; Construction of 220 kV double-circuit transmission line from 22/220 kV step-up substation of Xuyen Ha Solar Power Plant transition on 220 kV Buon Kuop - Buon Tua Srah Hydroelectricity transmission line	
5	Duc An	30	2025-2030		Transition on 220 kV Dak Nong - Buon Kuop transmission line	
6	Buon Kuop	87	2025-2030		Connecting to 22/110 kV busbar of Buon Kuop Floating Solar Power Plant of Dak Lak Province	
7	Srepok 3	100	2025-2030		Connecting to 22/220 kV busbar of Srepok 3 Floating Solar Power Plant of Dak Lak Province	
8	Ea Po 1 Solar Power	40	2025-2030		Connecting to 220 kV busbar of 220 kV electrical substation of Serepok 4 Hydroelectricity	
	Dien Bien Province		**850**	**250**		

1	Nam Po 1 Solar Power Plant	150	2025-2030		Connecting 220 kV electrical substation of Envision Nam Po Wind Power Plant via 220 kV transmission line from 220 kV electrical substation of Nam Po 1 Solar Power Plant	
2	Combined solar power project and batter storage on Pa Khoang Lake	200	2025-2030		110 kV double-circuit transmission line connecting 110 kV switching station of 220 kV Dien Bien Electrical Substation and expansion of two 110 kV feeder bays at 220 kV Dien Bien Electrical Substation	
3	Dien Bien 1 Solar Power Plant	300	2025-2030		Connecting 220 kV Dien Bien Substation	
4	Solar power project on Trung Thu Hydroelectricity Reservoir	100	2025-2030		New construction of 35/110 kV electrical substation, transition on existing 110 kV transmission line of Trung Thu Hydroelectricity Plant	
5	Solar power project in Song Ma 3 Hydroelectricity Reservoir	100	2025-2030		Construction of 110 kV substation at Song Ma 3 Solar Power Plant with capacity of each transformer at 125 MVA. Construction of 110 kV double-circuit transmission line connected to 110 kV busbar of Song Ma 3 Electrical Substation.	
6	Anh Huy Solar Power Project	50		2031-2035	Connecting 110 kV Tuan Giao - Trung Thu Grid	
7	Rang Dong Solar Power Plant	200		2031-2035	Expected transition on 220 kV Son La - Dien Bien transmission line	
	Dong Nai Province		**1069**	**3942**		

1	KN Tri An Floating Solar Power	928	2025-2030		Phase 1: New construction of 110 kV double-circuit transmission line from 110 kV KN Tri An Electrical Substation to 110 kV Vinh An Electrical Substation. Phase 2: New construction of 500 kV double-circuit transmission line from 500 kV KN Tri An Electrical Substation transition on 500 kV Song May - Tan Dinh transmission line.	Resolved in accordance with Resolution No. 233/NQ-CP
2	Tri An Solar Power	101	2025-2030		Connecting via 110 kV and 22 kV	
3	Phase 1 Gia Ui Lake Solar Power	40	2025-2030		Transition on 220 kV Ham Thuan - Da Mi - Xuan Loc transmission line	
4	Phase 2 Gia Ui Lake Solar Power	80		2031-2035	Connecting 220 kV electrical substation of Gai Ui Lake (Phase 1)	
5	Cau Dau Lake Solar Power	100		2031-2035	Transition on 110 kV Xuan Loc - Cam My transmission line	
6	Gia Mang Lake Solar Power	79		2031-2035	Transition on 110 kV Xuan Loc - Xuan Truong transmission line	
7	Solar Power of Tan Hanh Lake, Binh Hoa Lake, Tan Van Lake, Hoa An Lake, Tan Ban Lake	100		2031-2035	22 kV double-circuit transmission line connecting existing 22 kV transmission line and 110 kV Bien Hoa Electrical Substation	
8	Tri An 1 Lake Solar Power	500		2031-2035	Construction of 35/500 kV electrical substation of Tri An Solar Power Construction of 500 kV double-circuit transmission line transition on a circuit of 500 kV Di Linh - Tan Dinh transmission line	
9	Tri An 2 Lake Solar Power	500		2031-2035		
10	Tri An 3 Lake Solar Power	500		2031-2035		
11	Tri An 4 Lake	500		2031-		

	Solar Power			2035		
12	Tri An 5 Lake Solar Power	600		2031-2035	New construction of 500 kV double-circuit transmission line transition on a circuit of 500 kV Di Linh - Tan Dinh transmission line	
13	Tri An 6 Lake Solar Power	600		2031-2035	New construction of 500 kV double-circuit transmission line transition on a circuit of 500 kV Di Linh - Tan Dinh transmission line	
14	Solar power in semi-flooded area	160		2031-2035	Transition on 110 kV Kiem Tam - Dinh Quan 2 - Dinh Quan transmission line. Connecting 110 kV busbar of 110 kV Dinh Quan 2 Electrical Substation.	
15	Solar power of hydroelectricity reservoir	223		2031-2035	Connecting 22 kV, 110 kV, and 220 kV grid of the area	
	Dong Thap Province		**74**	**249**		
1	Thap Muoi 1 Solar Power	74	2025-2030		Connecting 110 kV Thap Muoi - Truong Xuan - Tam Nong transmission line	
2	Thap Muoi 2 Solar Power	99		2031-2035	Connecting 110 kV Thap Muoi - Truong Xuan - Tam Nong transmission line	
3	Tan Hong Solar Power	50		2031-2035	Connecting 110 kV Hong Ngu - Vinh Hung transmission line	
4	Tam Nong Solar Power	100		2031-2035	110 kV An Long - Tam Nong transmission line	
	Gia Lai Province	**1030**				
1	KN Yaly - Gia Lai	400	2025-		New construction 2	Resolved in

	Solar Power		2028		circuits of 500 kV KN Yaly - Gia Lai Solar Power Plant transmission line transition on 500 kV Pleiku - Yaly Hydroelectricity Plant transmission line (adjusted relative to connection plans under Document No. 1870/TTg-CN dated December 31, 2020 due to difficulty in expanding feeder bay at Yaly Hydroelectricity)	accordance with Resolution No. 233/NQ-CP
2	Krong Pa 2	39,2	2025-2030		110 kV step-up substation of Krong Pa 2 Solar Power, 2x25 MVA. New construction of 110 kV double-circuit transmission line transition on 110 kV transmission line of Dak Srong Hydroelectricity 3A + 3B - Krong Pa Solar Power. Where 220 kV Krong Pa Electrical Substation has is funded, study and implement connection of Krong Pa 2 to 220 kV Krong Pa Electrical Substation via 110 kV transmission line.	
3	Phu Thien	32	2025-2030		Construction of 110 kV double-circuit transmission line transition on 110 kV Chu Se - Ayun Pa transmission line	
4	Phase 2 Chu Ngoc	20	2025-2030		New construction of 110 kV single-circuit transmission line connecting 110 kV Krong Pa Electrical Substation	
5	Trang Duc	39,2	2025-2030		110 kV step-up substation at Trang Duc Solar Power, 50 MVA; 110 kV	

					transmission line transition on 110 kV Krong Pa - Dak Srong 3B Hydroelectricity transmission line Where 220 kV Krong Pa Electrical Substation has is funded, study and implement connection of Krong Pa 2 to 220 kV Krong Pa Electrical Substation via 110 kV transmission line.	
6	Ayun Pa	20	2025-2030		110 kV double-circuit transmission line transition on 110 kV Ayun Pa - Ea Hmeo transmission line	
7	Ia R Suom - Bitexco - ToNa	11,84	2025-2030		Connecting 22 kV busbar of Dak Srong 3B Hydroelectricity Plant	
8	Combined Plei Tho Ga 1 floating solar power and battery storage	35	2025-2030		Connecting via 220 kV transition on 220 kV transmission line of 500 kV Pleiku - Krong Buk Electrical Substation or a feeder bay of 220 kV - 500 k V Nhon Hoa Substation	
9	Combined Plei Tho Ga 2 floating solar power and battery storage	20	2025-2030		Connecting via 220 kV transition on 220 kV transmission line of 500 kV Pleiku - Krong Buk Electrical Substation or a feeder bay of 220 kV - 500 k V Nhon Hoa Substation	
10	Ia Blu 4 Solar Power	40	2025-2030		Connecting via 220 kV transmission line to 500 kV Nhon Hoa Electrical Substation, (if investment stages of 500 kV Ia Blu Electrical Substation are changed before 2030, connect to this substation instead)	
11	Ia Blu 3 Solar	40	2025-		Connecting via 220 kV	

	Power		2030		transmission line to 500 kV Nhon Hoa Electrical Substation, (if investment stages of 500 kV Ia Blu Electrical Substation are changed before 2030, connect to this substation instead)	
12	Ia Blu 4 Solar Power	40	2025-2030		Connecting via 220 kV transmission line to 500 kV Nhon Hoa Electrical Substation, (if investment stages of 500 kV Ia Blu Electrical Substation are changed before 2030, connect to this substation instead)	
13	Nhon Hoa 2 Solar Power	90	2025-2030		- Construction of 220 kV feeder bay, installation of 33/220 kV transformer of 125 MVA at 500 kV electrical substation of Nhon Hoa 1 Wind Power Plant. - Construction of 33 kV lines to connect inverter stations to 33 kV feeder bays of 33/220 kV step-up transformer at 500 kV electrical substation of Nhon Hoa 1 Wind Power Plant.	
14	Nhon Hoa 1 Solar Power	49	2025-2030		- Construction of 220 kV feeder bay, installation of 33/220 kV transformer of 63 MVA at 500 kV electrical substation of Nhon Hoa 1 Wind Power Plant. - Construction of 33 kV lines to connect inverter stations to 33 kV feeder bays of 33/220 kV step-up	

					transformer at 500 kV electrical substation of Nhon Hoa 1 Wind Power Plant.	
15	Combined Nhon Hoa 1A Solar Power and battery storage	49	2025-2030		- Construction of 220 kV feeder bay, installation of 33/220 kV transformer of 63 MVA at 500 kV electrical substation of Nhon Hoa 1 Wind Power Plant. - Construction of 33 kV lines to connect inverter stations to 33 kV feeder bays of 33/220 kV step-up transformer at 500 kV electrical substation of Nhon Hoa 1 Wind Power Plant.	
	Ha Noi City		**280**			
1	Floating solar power plant in Suoi Hai Lake	120	2025-2030		Connecting 110 kV transmission line to 110 kV Ba Vi Electrical Substation	
2	Floating solar power plant in Dong Mo Lake	160	2025-2030		Connecting 110 kV transmission line of 110 kV substation of Vietnam National University	
	Ha Tinh Province		**330**	**1336**		
1	Son Quang Solar Power	23,2	2025-2030			Resolved in accordance with Resolution No. 233/NQ-CP
2	Cam Lac Solar Power Plant	100		2031-2035	220 kV double-circuit transmission line in transition on 220 kV Ha Tinh - Vung Ang transmission line	
3	Phase 1 Ky Son Solar Power Plant	50	2025-2030		220 kV single-circuit transmission line connecting busbar of 220	

					kV Vung Ang Electrical Substation (new feeder bay construction)	
4	Phase 2 Ky Son Solar Power Plant	200		2031-2035	220 kV single-circuit transmission line connecting busbar of 220 kV Vung Ang Electrical Substation (new feeder bay construction)	
5	Solar power projects on hydroelectricity channels	59.4	2025-2030		Local distribution and medium-voltage grids along channels	
6	Solar power projects on hydroelectricity channels	571		2031-2035	Local distribution and medium-voltage grids along channels	
7	Phase 1 Song Rac floating solar power plant	180	2025-2030		Construction of 35/500 kV step-up substation of Song Rac Solar Power and 500 kV single-circuit transmission line connecting the power plant with 500 kV Ha Tinh Electrical Substation; expansion of a 500 kV feeder bay at 500 kV Ha Tinh Electrical Substation	
8	Phase 2 Song Rac floating solar power plant	220		2031-2035	Construction of 35/500 kV step-up substation of Song Rac Solar Power and 500 kV single-circuit transmission line connecting the power plant with 500 kV Ha Tinh Electrical Substation; expansion of a 500 kV feeder bay at 500 kV Ha Tinh Electrical Substation	
9	Phase 1 Ke Go 1 floating Solar Power Plant	100	2025-2030		New construction of 220 kV transmission line connected to 220 kV busbar of 500 kV Ha Tinh	

					Electrical Substation	
10	Phase 1 Ke Go 1 floating Solar Power Plant	100		2031-2035	New construction of 220 kV transmission line connected to 220 kV busbar of 500 kV Ha Tinh Electrical Substation	
11	Ke Go 2 floating Solar Power Plant	145		2031-2035	Connecting 220 kV substation of Ke Go 1 floating Solar Power Plant	
	Hau Giang Province	**50**		**372**		
1	Sao Mai 1 Solar Power	50	2025-2030		110 kV single-circuit transmission line transition on 110 kV Long My - Hong Dan transmission line	
2	Extended Sao Mai 1 Solar Power	172		2031-2035	New construction of four-circuit transmission line transition on 220 kV double-circuit Soc Trang 2 - Chau Thanh - O Mon transmission line. New construction of 33/220 kV - 450 MVA electrical substation	
3	Sao Mai 2 Solar Power	200		2031-2035	New construction of four-circuit transmission line transition on 220 kV double-circuit Ca Mau Thermal Power - O Mon transmission line. New construction of 33/220 kV - 250 MVA electrical substation	
	Hue City		**290**	**950**		
1	Phong Hoa Solar Power Plant	40	2025-2030		110 kV double-circuit transmission line transition on 110 kV transmission line of Phong Dien 2 Solar Power to 220 kV Phong Dien Electrical Substation	Resolved in accordance with Resolution No. 233/NQ-CP
2	A Luoi Solar Power	105	2025-		New construction of 220	

	Plant		2030		kV single-circuit transmission line connecting 220 kV substation of A Luoi Hydroelectricity Plant in A Luoi - Phong Dien line	
3	Dien Huong Solar Power Plant	95	2025-2030		New construction of 110 kV single-circuit transmission line from 110 kV busbar of 22/110 kV step-up substation of Dien Huong Solar Power Plant to busbar of 110 kV My Thuy Electrical Substation.	
4	Phong Dien III Solar Power Plant	50	2025-2030		New construction of 110 kV single-circuit transmission line connecting 110 kV Phong Dien II Electrical Substation	
5	Phase 1 Cau Hai Solar Power	350		2031-2035	220 kV four-circuit transmission line transition on 220 kV Hue - Hoa Khanh transmission line	
6	Tam Giang Solar Power	600		2031-2035	220 kV double-circuit transmission line connecting 220 kV Phong Dien Electrical Substation	
	Khanh Hoa Province		**100**			
1	Ninh Sim Solar Power	32	2025-2030			Resolved in accordance with Resolution No. 233/NQ-CP
2	Phase 2 Long Son Solar Power Plant	100	2026		Connecting 220 kV Van Phong Electrical Substation on the basis of utilizing connection infrastructures of Phase 1 Long Son Solar Power Plant, construction of 6 circuits of 22 kV transmission line of Phase	

					2 Long Son Solar Power Plant to distribution yard of Phase 1 Long Son Solar Power	
	Kien Giang Province		**400**			
1	Solar power on Giang Thanh 1 shrimp farm	400	2026-2030		Connecting to existing 220 kV Kien Binh Electrical Substation via 220 kV: - At 35/220 kV substation of solar power project on Giang Thanh 1 shrimp farm, install two 35/220 kV - (2x250) MVA transformers and two 220 kV feeder bays to Kien Binh Electrical Substation; - Construction of 220 kV double-circuit transmission line to 220 kV Kien Binh Electrical Substation; - Construction of two extended 220 kV feeder bays at 220 kV Kien Binh Electrical Substation.	
	Kon Tum Province		**550**			
1	KN Yaly Kon Tum Solar Power	160	2025-2028		New construction of 110 kV double-circuit transmission line from 35/110 kV step-up substation at KN Yaly Kon Tum Solar Power Plant to 35/110/500 kV step-up substation at KN Yaly Solar Power Plant - Gia Lai (adjusted relative to connection plan under Document No. 1870/TTg-CN dated December 31, 2020)	Resolved in accordance with Resolution No. 233/NQ-CP

2	Ia Toi DT Solar Power	140	2025-2030		Connecting via 220 kV double-circuit transmission line transition on 220 kV transmission line of Se San 3A Hydroelectricity Plant - 500 kV Pleiku Electrical Substation	
3	Dak Ro Sa Solar Power	50	2025-2030		110 kV single-circuit transmission line connecting 110 kV Tan Mai Dak To Electrical Substation	
4	Phase 1 FSI Plei Krong Solar Power (in Plei Krong Hydroelectricity Reservoir)	75	2025-2030		Connecting via 220 kV transmission line to 220 kV Kon Tum Electrical Substation	
5	Phase 1 Plei Krong DK floating Solar Power	40	2025-2030		Connecting via 220 kV transmission line to 220 kV Kon Tum Electrical Substation	
6	Ya Tang Solar Power	60	2025-2030		Transition on 220 kV transmission line of Se San 3A Hydroelectricity - Se San 3 Hydroelectricity via 220 kV transmission line	
7	Phase 1 Se San 3A Solar Power (in Se San 3A Hydroelectricity Reservoir	25	2025-2030		220 kV -60 MVA electrical substation of Se San 3A Hydroelectricity; 220 kV single-circuit transmission line of Se San 3A Solar Power - Se San 3A Hydroelectricity; expansion of a 220 kV feeder bay at distribution yard of Se San 3A Hydroelectricity	
	Lai Chau Province	**1060**		**420**		
1	Ban Chat 1 Solar Power	250	2025-2030		220 kV transmission line of Ban Chat 1 Solar Power Plant (220 kV Ban Chat -	

					Huoi Quang transmission line)	
2	Ban Chat 2 Solar Power	300	2025-2030		220 kV transmission line of Ban Chat 2 Solar Power Plant (220 kV Ban Chat - Huoi Quang transmission line)	
3	Huoi Quang 1 Solar Power	100	2025-2030		110 kV transmission line of HO kV electrical substation of Huoi Quang 1 Solar Power Plant - 220 kV electrical substation of Huoi Quang 2, 3 Solar Power Plant	
4	Huoi Quang 2 Solar Power	140	2025-2030		220 kV - 450 MVA Huoi Quang 2, 3 Electrical Substation and 220 kV transmission line transition on 220 kV Huoi Quang - Than Uyen transmission line	
5	Huoi Quang 3 Solar Power	100	2025-2030		35 kV transmission line of Huoi Quang 3 Solar Power Plant - 220 kV electrical substation of Huoi Quang 2, 3 Solar Power Plant	
6	Nam Manh Solar Power	80	2025-2030		110 kV single-circuit transmission line of Nam Manh Solar Power - 220 kV Nam Hang Solar Power	
7	Nam Hang Solar Power	90	2025-2030		220/110/35 kV - (250+125) MVA Nam Hang Electrical Substation and 220 kV double-circuit transmission line of Nam Hang Solar Power - 500 kV Lai Chau Electrical Substation	
8	Floating solar power on Lai Chau Hydroelectricity Reservoir	120		2031-2035	220 kV four-circuit transmission line of floating solar power on Lai Chau Hydroelectricity	It is possible to expedite the process and implement in

					Reservoir - into Lai Chau - Muong Te	2025 - 2030 period if conditions allow
9	Floating Solar Power on Ban Chat Hydroelectricity Reservoir	200		2031-2035	220 kV double-circuit transmission line of Floating Solar Power on Ban Chat Hydroelectricity Reservoir - into Than Uyen - Ban Chat; 220 kV double-circuit transmission line of Floating Solar Power on Ban Chat Hydroelectricity Reservoir - into Than Uyen - Huoi Quang	
10	Huoi Quang 1 Floating Solar Power (on Huoi Quang Hydroelectricity Reservoir)	50		2031-2035	220 kV double-circuit transmission line of Huoi Quang 1 Floating Solar Power - into Than Uyen - Ban Chat	
11	Huoi Quang 2 Floating Solar Power (on Huoi Quang Hydroelectricity Reservoir)	50		2031-2035	220 kV double-circuit transmission line of Huoi Quang 1 Floating Solar Power - into Than Uyen - Huoi Quang	
	Lam Dong Province		**336**	**70**		
1	Tam Bo Solar Power	40	2025-2030		Transition on 110 kV Di Linh - Da Dang 3 transmission line	Resolved in accordance with Resolution No. 233/NQ-CP
2	Floating Solar Power on Dai Ninh Hydroelectricity Reservoir	96	2025-2030		Transition on 220 kV Duc Trong - Di Linh transmission line	
3	Floating Solar Power on Dong Nai 2 Hydroelectricity Reservoir	240	2025-2030		Connecting to Dong Nai 2 Hydroelectricity via 220 kV transmission line	
4	Floating Solar Power of Krong No	70		2031-2035	Construction of 22/110 kV step-up substation of	

	3 Hydroelectricity Reservoir				Krong No 3 Solar Power Plant	
	Long An Province		**268**	**116**		
1	TTC Duc Hue 2 Solar Power	41,4	2025-2030		110 kV transmission line connecting 110 kV switching station of existing TTC Duc Hue 1 Solar Power Plant to 110 kV switching station of 110 kV Duc Hue Electrical Substation	Resolved in accordance with Resolution No. 233/NQ-CP
2	Solar Park 7 Solar Power Plant	80	2025-2030		- 220 kV transmission line from 220 kV electrical substation of Solar Park Solar Power to 220 kV busbar of 500 kV Duc Hoa Electrical Substation Expansion of 220 kV feeder bay at 500 kV Duc Hoa Substation. - Installation of a 220 kV - 125 MVA transformer at 220 kV Solar Park Solar Power. - Construction of medium-voltage subsurface cables connecting 125 MVA transformers at 220 kV substation of Solar Park Solar Power.	
3	Red Sun Solar Power Plant	60	2025-2030		Connecting 110 kV busbar of existing Gaia Solar Power Plant via 110 kV double-circuit transmission line from Gaia Solar Power Plant to 220 kV Long An 2 Substation	
4	Duc Hue VNT1 Solar Power	40	2025-2030		220 kV single-circuit transmission line of Duc Hue VNT1 Solar Power Plant connecting 220 kV busbar of 550 kV Duc Hoa	

					Electrical Substation. Installation of T1 transformer of 63 MVA	
5	Duc Hue VNT2 Solar Power	30	2025-2030		Installation of T2 transformer of 63 MVA at Duc Hue VNT1 Solar Power Plant	
6	Phase 1 Solar Park 6 Solar Power Plant	16.6	2025-2030		Installation of a 220 kV - 63 MVA transformer at 220 kV substation of Solar Park Solar Power. Construction of medium-voltage subsurface cables connecting 63 MVA transformers at 220 kV substation of Solar Park Solar Power	
7	Phase 2 Solar Park 6 Solar Power Plant	36		2031-2035	Installation of a 220 kV - 63 MVA transformer at 220 kV substation of Solar Park Solar Power. Construction of medium-voltage subsurface cables connecting 63 MVA transformers at 220 kV substation of Solar Park Solar Power	
8	Solar Park 8 Solar Power Plant	80		2031-2035	Installation of a 220 kV - 63 MVA transformer at 220 kV substation of Solar Park Solar Power. Construction of medium-voltage subsurface cables connecting 63 MVA transformers at 220 kV substation of Solar Park Solar Power	
	Nghe An Province		**360**			
1	Solar power plant of Khe Go Lake	200	2025-2030		Connecting 110 kV busbar of 220 kV Quynh Luu Electrical Substation	Resolved in accordance with Resolution No. 233/NQ-CP
2	Floating solar	160	2025-		Transition on 220 kV	

	power plant in Vuc Mau Lake		2030		Quynh Luu - Nghi Son transmission line	
	Ninh Thuan Province		**1924**	**3819,5**		
1	Phuoc Thai 2 Solar Power	87	2025-2030		Connecting 22 kV busbar of 220 kV Phuoc Thai Electrical Substation	Resolved in accordance with Resolution No. 233/NQ-CP
2	Phuoc Thai 3 Solar Power	43,5	2025-2030		Connecting 22 kV busbar of 220 kV Phuoc Thai Electrical Substation	
3	Phuoc Huu 2 Solar Power	184	2026		Construction of 220 V double-circuit transmission line connecting switching station of 220 kV Ninh Phuoc Electrical Substation	
4	Phuoc Trung Solar Power	40	2026		Construction of 220 kV double-circuit transmission line transition on 220 kV Thap Cham - Nha Trang transmission line	
5	Bac Ai 7 Solar Power of Song Cai Lake	70	2025-2030		Construction of 220 kV double-circuit transmission line from Bac Ai Solar Power Plant transition on 220 kV Thap Cham - Da Nhim transmission line	
6	Nhi Ha Solar Farm	80	2025-2030		Construction of 220 kV single-circuit transmission line connecting 220 kV busbar of 500/220 kV Thuan Nam Electrical Substation	
7	Solar power on Song Sat Lake	70	2025-2030		Construction of 220 kV double-circuit transmission line from Song Sat Lake Solar Power Plant transition on 220 kV Thap Cham - Nha Trang transmission line	
8	Dong Quan The Solar Power Plant	250	2025-2030		Transition on 220 kV Vinh Tan - 220 kV Quan The	

					Switching Station transmission line, construction of 35/220 kV Dong Quan The Electrical Substation with three 35/220 kV - 160 MVA transformers, 220 kV transmission line from 35/220 kV Dong Quan The Electrical Substation transition on 220 kV transmission line of Quan The Switching Station - 220 /500 kV Vinh Tan Electrical Substation.	
9	Phase 2 My Son - Hoan Loc Viet Solar Power	50	2025-2030		Connecting 220 kV My Son - Hoan Loc Viet Electrical Substation (existing of Phase 1)	
10	Phase 2 Hacom Solar Power	50	2025-2030		Connecting 220 kV feeder bay of 220 kV electrical substation of Hacom Solar Power Plant	
11	CK7 Lake Solar Power Project	50	2025-2030		Transition on 220 kV Ninh Phuoc - Thuan Nam transmission line	
12	Ninh Phuoc 6.3 Solar Power	50	2025-2030		Construction of 220 kV double-circuit transmission line from 220 kV electrical substation of Ninh Phuoc 6.3 Solar Power Plant transition on 220 kV Ninh Phuoc - 500 kV Ninh Son transmission line	
13	Ho Song Than Solar Power	50	2025-2030		220 kV double-circuit Ho Song Than Solar Power - 550 kV Ninh Son Electrical Substation transmission line	
14	Hoa Son Doc Dai Solar Power	400	2025-2030		220 kV double-circuit Hoa Son Doc Dai Solar Power - 500 kV Ninh Son Electrical Substation	

					transmission line	
15	Bac Ai 1 Solar Power	150	2025-2030		Construction of 220 kV double-circuit transmission line from Bac Ai 1 transmission line transition on 220 kV Da Nhim - Thap Cham 2 transmission line	
16	Ninh Son 1 Solar Power	73,5	2025-2030		Construction of 220 kV double-circuit transmission line from 220 kV electrical substation of Ninh Son 1 Solar Power transition on 220 kV Ninh Phuoc - 500 kV Ninh Son Electrical Substation transmission line	
17	Dong Quan The 2 Solar Power Plant	50	2025-2030		Connecting 220 kV Quan The Switching Station as follows: - Investment in 35/220 kV - 63 MVA T2 transformer at reserved location of BIM 3 Electrical Substation and integrated equipment, completion of connection diagram of 220 kV BIM 3 Electrical substation - Expansion of a feeder bay connecting 220 kV BIM 3 Electrical Substation to Quan The Switching Station - Installation of 2nd circuit of 220 kV BIM3 - Quan The Switching Station transmission line. - Expansion of a 220 kV feeder bay at Quan The Switching Station (271)	
18	Hoa Son Suoi Ong 4 Solar Power	350	2025-2030		220 kV double-circuit Hoa Son Suoi Ong 4 - 500 kV Ninh Son Electrical Substation transmission	

					line	
19	Phase 2 Extended Phuoc Ninh Solar Power	50	2025-2030		Construction of 220 kV double-circuit ACSR 2x330 transmission line from 220 kV step-up substation of Extended Phuoc Ninh Solar Power transition on 220 kV transmission line from 500 kV Thuan Nam Substation to 500 kV Vinh Tan Substation	
20	Phase 2 Nhi Ha Solar Farm	50		2031-2035	Construction of 220 kV single-circuit transmission line connecting 220 kV busbar of 500/220 kV Thuan Nam Electrical Substation	
21	Phase 2 CK7 Lake Solar Power Project	100		2031-2035	Transition on 220 kV Ninh Phuoc - Thuan Nam transmission line	
22	Ninh Phuoc 7 Solar Power Project	200		2031-2035	Transition on 220 kV Ninh Phuoc - Ninh Son transmission line	
23	Phase 2 Dong Quan The Solar Power Plant	50		2031-2035	Dong Quan The Solar Power Plant transition on 220 kV Vinh Tan - 220 kV Quan The Switching Station transmission line, construction of 35/220 kV Dong Quan The Electrical Substation consisting of three 35/220 kV - 160 MVA transformers and two feeder bays to 220 kV transmission line, reservation of a feeder bay of 220 kV transmission line to 220 kV Ca Na Electrical Substation. - 220 kV double-circuit transmission line from 35/220 kV Dong Quan The	

					Electrical Substation transition on 220 kV transmission line of Quan The Switching Station - 220/500 kV Vinh Tan Electrical Substation	
24	Hoa Son Suoi Ong 4 Solar Power	50		2031-2035	220 kV double-circuit Hoa Son Suoi Ong 4 - 500 kV Ninh Son Electrical Substation transmission line	
25	Bac Ai 7 Solar Power of Song Cai Lake	60		2031-2035	Transition on 220 kV Thap Cham - Da Nhim transmission line	
26	Ninh Phuoc Solar Power	276		2031-2035	Transition on a circuit of 220 kV Ninh Phuoc - 500 kV Ninh Son Substation transmission line; with the following auxiliary investment items: - New construction of 220 kV - 2x150 MVA electrical substation of Ninh Phuoc Solar Power to unify power of Ninh Phuoc Solar Power Plant; - Construction of 220 kV double-circuit transmission line connecting Ninh Phuoc Solar Power Plant transition on a circuit of 220 kV Ninh Phuoc - 500 kV Ninh Son Substation transmission line.	
27	Ho Ba Rau Solar Power	80		2031-2035	Construction of 220 kV double-circuit transmission line transition on 220 kV Cam Ranh - Thap Cham transmission line	
28	Phase 2 Extended Phuoc Ninh Solar Power	38		2031-2035	Construction of 220 kV double-circuit transmission line from 220 kV step-up	

					substation of Extended Phuoc Ninh Solar Power transition on 220 kV transmission line from 500 kV Thuan Nam Substation to 500 kV Vinh Tan Substation	
29	Tra Co Lake Solar Power	40		2031-2035	Construction of two circuits of 220 kV transmission line of Tra Co Lake Solar Power transition on a circuit of 220 kV Thien Tan Solar Power - Nha Trang transmission line	
30	7A Solar Power Plant	50		2031-2035	Unifying electrical production to 110 kV electrical substation of existing 7A Wind Power Plant via 22 kV double-circuit transmission line (uploading to national grid via 110 kV double-circuit transmission line from 7A Wind Power Plant to 220 kV Ninh Phuoc Electrical Substation)	
31	Cho Mo Lake Solar Power Project	80		2031-2035	Transition on 220 kV Thap Cham - Da Nhim transmission line	
32	Phase 2 Nhi Ha Solar Power	150		2031-2035	Increase capacity of 220 kV electrical substation of Nhi Ha Solar Power from 63 MVA to (63+150) MVA	
33	Nui Mot 2 Lake Solar Power	80		2031-2035	Construction of 220 kV single-circuit transmission line from 220 kV electrical substation of Nui Mot 2 Lake Solar Power Plant to 220 kV Ninh Phuoc Substation	
34	Tan Giang Lake	50		2031-	Connecting to 220 kV	

	Solar Power			2035	electrical substation of Thien Tan 1.2 Solar Power Plant via 220 kV. Investment items serving construction of 220 kV transmission line and electrical substation: + Construction of 22/220 kV - 1x50 MVA electrical substation of Tan Giang Lake Solar Power Plant; + Construction of 220 kV single-circuit transmission line connecting 220 kV electrical substation of Thien Tan 1.2 Solar Power Plant + Investment and expansion of a feeder bay of 220 kV transmission line at 220 kV electrical substation of Thien Tan 1.2 Solar Power Plant.	
35	Ta Ranh Lake Solar Power	39.5		2031-2035	Connecting to 220 kV electrical substation of Thien Tan 1.2 Solar Power Plant via 220 kV	
36	Thuan Nam 11 Solar Power	50		2031-2035	Transition on 220 kV Vinh Tan - Ninh Phuoc transmission line	
37	Hon Kho Solar Power	120		2031-2035	Transition on a circuit of 220 kV Thap Cham - Nha Trang transmission line	
38	Bac Ai 14 Solar Power Plant	80		2031-2035	110 kV double-circuit Bac Ai 14 Solar Power - 220 kV Thap Cham Electrical Substation transmission line	
39	Hieu Thien Solar Power Plant	120		2031-2035	Connecting to 220 kV busbar of 220 kV Ninh Phuoc Substation	

40	Phuoc Chien Solar Power Plant	200		2031-2035	220 kV transmission line from Bac Son Wind Power Plant transition on 220 kV Nha Trang - Thap Cham transmission line	
41	Tay Quan The Solar Power Plant	100		2031-2035	Connecting 110 kV feeder bay of existing 35/110/220 kV - 250 MVA transformers of 220 kV electrical substation of BIM 2 Solar Power. Connecting 220 kV grid via 220 kV BIM2 - Quan The Switching Station transmission line - into Vinh Tan - Thuan Nam; - Expansion of a feeder bay into 220 kV BIM 2 Electrical Substation - installation of 2nd circuit of 220 kV BIM2 - Quan The Switching Station transmission line; - Expansion of a 220 kV feeder bay at reserved position at Quan The Switching Station (276).	
42	Tri Hai Solar Power Plant	100		2031-2035	Tri Hai Solar Power Plant connecting 220 kV electrical substation of Tri Hai Wind Power Plant as follows: - Investment in 33/220 W - 125 MVA T2 transformer. Tri Hai Solar Power Plant connecting T2 transformer. - Investment in expansion of 220 kV feeder bays at 220 kV electrical substation of Tri Hai Wind Power Plant in a manner	

					uniform with T2 transformer.	
43	Nhi Ha 5 Solar Power and Green Hydrogen Production Project	160		2031-2035	Construction of 220 kV substation connecting 220 kV - (250+125) MVA Nhi Ha	
44	Thuan Nam 1 Solar Power and Green Hydrogen Production Project	140		2031-2035	Construction of 220 kV substation transition on two circuits of Phuoc Thai - Ninh Phuoc (250+125) MVA	
45	Ninh Son 2 Solar Power Plant	90		2031-2035	Proposed construction of 220 kV switching station connecting 500 kV Ninh Son Electrical Substation	
46	Bac Ai 2 Solar Power Plant	160		2031-2035	Construction of switching station of 220 kV substation connecting 500 kV Ninh Son Electrical Substation	
47	Bac Ai 3 Solar Power Plant	200		2031-2035	Proposed construction of 220 kV switching station connecting 500 kV Ninh Son Electrical Substation	
48	Nhi Ha Solar Power Plant	100		2031-2035	Construction of 110 kV double-circuit transmission line from 110 kV electrical substation of Nhi Ha Solar Power Plant to 110 kV electrical substation of Ca Na Industrial Park	
49	Thai Vinh 1 Solar Power Project	120		2031-2035	220 kV transition on two circuits of 220 kV - (2x250) MVA Thap Cham Phuoc Than transmission line	
50	Thai Vinh 2 Solar Power Project	120		2031-2035	220 kV transition on two circuits of 220 kV - (2x250) MVA Thap Cham Phuoc Than transmission line	
51	Quang Son 2 Solar	96		2031-	220 kV connecting 500 kV	

	Power Project			2035	- (250+150) MVA Ninh Son together with Quang Son 1	
52	Thai Vinh 3 Solar Power Plant	120		2031-2035	Construction of 220 kV substation connecting 220 kV - 250 MVA Phuoc Thai	
53	Combined Bac Ai 11 Solar Power Plant and BESS	100		2031-2035	Connecting Bac Ai 11 Solar Power Plant via double-circuit transmission line transition on 220 kV Ninh Phuoc - Thap Cham transmission line	
54	Combined Phuoc Ha Solar Power Plant and BESS	100		2031-2035	Expected transition on a circuit of 220 kV Thuan Nam - Ninh Phuoc transmission line	
55	Bac Ai 1.1 Solar Power Plant	150		2031-2035	New construction of 22 KV/220 kV - 2x125 MVA electrical substation transition on existing 220 kV Da Nhim - Nha Trang transmission line	
	Phu Tho Province		**100**			
1	Centralized solar power	100	2026-2030		Connecting medium-voltage, low-voltage electrical grid	
	Phu Yen Province		**955**			
1	Song Hinh Lake Floating Solar Power	200	2025-2030		110 kV transmission line connecting 110 kV electrical substation of Song Hinh Hydroelectricity	
2	Song Hinh 3 Lake Floating Solar Power	200	2025-2030		110 kV transmission line connecting 110 kV electrical substation of Song Hinh Hydroelectricity	
3	Floating solar power plant on reservoir of Song	220	2025-2030		New construction of 220 kV - 50 MVA electrical substation of Song Ba Ha	

	Ba Ha Hydroelectricity Plant				Floating Solar Power. Construction of 220 kV transmission line of Song Ba Ha Floating Solar Power - Song Ba Ha Hydroelectricity.	
4	Tay Hoa 1 Solar Power Plant	50	2025-2030		110 kV transmission line connecting 220 kV electrical substation of Tay Hoa 3 Solar Power	
5	Tay Hoa 2 Solar Power Plant	60	2025-2030		Transition on 110 kV Son Hoa - 220 kV Tuy Hoa transmission line	
6	Tay Hoa 3 Solar Power Plant	70	2025-2030		Transition on 220 kV transmission line of Tuy Hoa Electrical Substation - Song Ba Ha Hydroelectricity	
7	Da Loc Phu Yen Solar Power Plant	55	2025-2030		110 kV transmission line connecting 110 kV Dong Xuan Electrical Substation	
8	Xuan Quang Phu Yen Solar Power Plant	100	2025-2030		110 kV transmission line connecting 110 kV Dong Xuan Electrical Substation	
	Quang Binh Province		**410**			
1	Le Thuy Solar Power Plant	60	2025-2030		New construction of 220 kV - 2x125 MVA substation of Le Thuy Solar Power; New construction of double-circuit transmission line connecting 220 kV substation of Le Thuy Solar Power transition on a circuit of 220 kV Dong Ha - B&T1 Wind Power transmission line.	
2	Quang Binh 1 Solar Power Plant	120	2025-2030		Transition on 220 kV double-circuit Dong Hoi - Ba Don transmission line	
3	Quang Binh 2 Solar	80	2025-		Transition on 220 kV	

	Power Plant		2030		double-circuit Dong Hoi - Ba Don transmission line	
4	Quang Binh Solar Power Project integrating 240 MWh battery storage system	150	2025-2030		Connecting 220 kV transmission line, BT1 Electrical Substation and 220 kV BT2 Electrical Substation	
	Quang Ngai Province	**140**				
1	Nuoc Man Lagoon Solar Power	40	2025-2030		Connecting via 110 kV	Resolved in accordance with Resolution No. 233/NQ-CP
2	Lam Binh Solar Power	100	2025-2030		Transition on 220 kV Quang Ngai - Phu My transmission line	
	Quang Ninh Province		**390**			
1	Yen Lap Lake Solar Power	140	2025-2030		220 kV double-circuit transmission line transition on 220 kV Trang Bach - Yen Hung - Uong Bi Thermal Power transmission line	
2	Khe Che Lake Solar Power	50	2025-2030		220 kV double-circuit transmission line transition on 220 kV Pha Lai Thermal Power - Mao Khe Thermal power transmission line	
3	Quat Dong Lake Solar Power	50	2025-2030		HO kV double-circuit transmission line transition on 110 kV Hai Ha - Texhong - Mong Cai transmission line	
4	Dam Ha Dong Lake Solar Power	50	2025-2030		220 kV double-circuit transmission line transition on 220 kV Cam Pha - Hai Ha transmission line	
5	Dam Ha Solar Power	100	2025-2030		220 kV double-circuit transmission line transition	

					on 220 kV Cam Pha - Hai Ha transmission line	
	Quang Tri Province		**270**	**581**		
1	Trieu Thuong 1,2 Floating Solar Power Project	70	2025-2030		Transition on two circuits of 110 kV transmission line of 220 kV Dong Ha Substation - 220 kV Phong Dien Substation	
2	Trieu Son 1 Solar Power Project	50	2025-2030		Connecting 110 kV My Thuy Electrical Substation	
3	Truc Kinh 2 Solar Power Plant Project	100	2025-2030		New construction of 220 kV double-circuit transmission line transition on a circuit of 220 kV Dong Ha - Dong Hoi transmission line	
4	Ha Thuong Solar Power Plant Project	50	2025-2030		New construction of 220 kV double-circuit transmission line transition on a circuit of 220 kV Dong Ha - Dong Hoi transmission line	
5	Hai Quy Solar Power Project, Hai Lang District	50		2031-2035	110 kV single-circuit transmission line connecting Hai Quy Solar Power Plant to 110 kV busbar of existing 110 kV Dien Sanh Electrical Substation	
6	Floating Solar Power and Battery Storage Project of Kinh Mon 1 Lake	40		2031-2035	New construction of 220 kV transmission line from step-up substation of Kinh Mon Floating Solar Power Plant and Battery Storage Project - into a circuit of 220 kV Dong Ha - Dong Hoi transmission line	
7	Hai Duong Solar Power Project, Hai Lang District	65		2031-2035	Connecting to busbar of 110 kV My Thuy Electrical Substation via 110 kV single-circuit	

					transmission line at 110 kV	
8	Thuy Loi Floating Solar Power Project - Quang Tri 2 Hydroelectricity	40		2031-2035	Construction of 220 kV single-circuit transmission line from Quang Tri Floating Solar Power Plant to 220 kV Lao Bao Electrical Substation	
9	Floating Solar Power and Battery Storage Project of Kinh Mon 2 Lake	40		2031-2035	New construction of 220 kV transmission line from step-up substation of Kinh Mon Floating Solar Power Plant and Battery Storage Project - into a circuit of 220 kV Dong Ha - Dong Hoi transmission line	
10	Truc Kinh 3 Floating Solar Power Plant Project	40		2031-2035	New construction of 220 kV double-circuit transmission line from step-up substation of Truc Kinh Floating Solar Power Plant - into a circuit of 220 kV Dong Ha - Dong Hoi transmission line	
11	Bao Dai Floating Solar Power Plant Project	96		2031-2035	Construction of 220 kV double-circuit phase-separated transmission line from 220 kV Bao Dai Electrical Substation to 220 kV Dong Ha - Dong Hoi transmission line	
12	La Nga Floating Solar Power Plant Project	70		2031-2035	Construction of 220 kV single-circuit transmission line from 220 kV La Nga Electrical Substation to 220 kV Dong Ha - Dong Hoi transmission line	
13	Dap Tram Lake Floating Solar Power Plant and Battery Storage Project	140		2031-2035	Construction of 110 kV single-circuit transmission line connecting 110 kV busbar of Dien Sanh Electrical Substation	
	Soc Trang		**50**			

	Province					
1	Phan Truong Thanh Tri Solar Power	50	2025-2030		110 kV single-circuit transmission line connecting busbar of 110 kV Thanh Tri Electrical Substation Expansion of busbar of 110 kV Thanh Tri Electrical Substation.	
	Son La Province		**3315**	**1050**		
1	Bac Yen 1	55	2025-2030		- Construction of 220 kV - 200 MVA substation of Bac Yen 1 Solar Power to carry capacity of Bac Yen 1 Solar Power Plant (55 MW), Bac Yen 2 Solar Power Plant (50 MW). Bac Yen 3 Solar Power Plant (50 MW). - Construction of 220 kV double-circuit transmission line transition on 220 kV Huoi Quang - Nghia Lo transmission line.	
2	Bac Yen 2	50	2025-2030		- Construction of 22 kV Bac Yen 2 Electrical Substation. Construction of 22 kV four-circuit transmission line from Bac Yen 2 Solar Power Plant to 220 kV Bac Yen 1 Substation	
3	Bac Yen 3	50	2025-2030		- Construction of 22 kV Bac Yen 3 Electrical Substation. Construction of 22 kV four-circuit transmission line from Bac Yen 3 Solar Power Plant to 220 kV Bac Yen 1 Substation	
4	Mai Son 1	50	2025-2030		Construction of 220 kV - 150 MVA electrical substation at Tan Thao	

					Hamlet, Co Noi Commune to load capacity of Mai Son 2 (50 MW) and Mai Son 3 (60 MW); Construction of 220 kV double-circuit transmission line transition on 220 kV Son La - Viet Tri transmission line	
5	Mai Son 2	60	2025-2030		Construction of 35 kV four-circuit transmission line connecting 35 kV side of 220 kV Mai Son 2 Substation	
6	Muong La 1	40	2025-2030		220 kV electrical substation and double-circuit transmission line connecting 220 kV Huoi Quang - Nghia Lo transmission line	
7	Muong La 2	50	2025-2030		220 kV transmission line connecting 220 kV Muong La 1 Electrical Substation	
8	Floating Solar Power in Son La Hydroelectricity Reservoir	800	2025-2030		Construction of step-up substation and 500 kV transmission line connecting 500 kV Son La Electrical Substation	
9	Song Ma 1	50	2025-2030		Connecting to 220 kV Song Ma Substation via 110 kV	
10	Song Ma 2	50	2025-2030		Connecting to 220 kV Song Ma Substation via 110 kV	
11	Song Ma 3	60	2025-2030		- Construction of 110 kV - 100 MVA substation of Song Ma 3 Solar Power - Construction of 110 kV single-circuit transmission line connecting 110 kV electrical substation of Muong Lam	

					Hydroelectricity	
12	Combination of Chim Van clean energy production - Phieng Pan Solar Power Complex and Battery Storage	1000	2025-2030		Construction of 500 kV transmission line and electrical substation of Phieng Pan Solar Power connecting 500 kV Mai Son 8 Electrical Substation	
13	Mai Son 4	75	2025-2030		Construction of 110 kV transmission line connecting 500 kV Mai Son Substation	
14	Mai Son 5	210	2025-2030		Construction of 110 kV double-circuit transmission line from 110 kV Mai Son 5 Substation to 110 kV busbar of 500 kV Mai Son 7 Substation	
15	Mai Son 6	75	2025-2030		Connecting 110 kV side of 500 kV Mai Son 7 Substation	
16	Mai Son 7	270	2025-2030		Construction of 500 kV 0 2700 MVA Mai Son 7 Substation; Construction of 500 kV transmission line from 500 kV Mai Son - Viet Tri Electrical Substation	
17	Mai Son 8	85	2025-2030		Construction of 110 kV single-circuit transmission line from 110 kV Mai Son 8 Substation to 110 kV busbar of 500 kV Mai Son 7 Substation	
18	Mai Son 9	70	2025-2030		Construction of 110 kV single-circuit transmission line from 110 kV Mai Son 9 Substation to 110 kV busbar of 500 kV Mai Son 7 Substation	
19	Yen Chau 4	135	2025-2030		Construction of 110 kV single-circuit transmission line from 110 kV Yen	

					Chau 4 Substation to 110 kV busbar of 500 kV Mai Son 7 Substation	
20	Yen Chau 5	80	2025-2030		Construction of 110 kV single-circuit transmission line from 110 kV Yen Chau 5 Substation to 110 kV busbar of 500 kV Mai Son 7 Substation	
21	Son La 1.1 Floating Solar Power Project (on Son La Hydroelectricity Reservoir)	350		2031-2035	New construction of 220 kV transmission line of Son La 1.1 Floating Solar Power - into Son La - Dien Bien	It is possible to expedite the process and implement in 2025 - 2030 period if conditions allow
22	Son La 1.2 Floating Solar Power Project (on Son La Hydroelectricity Reservoir)	350		2031-2035	New construction of 220 kV double-circuit transmission line of Son La 1.2 Floating Solar Power - Son La 1.1 Floating Solar Power	
23	Son La 2 Floating Solar Power Project (on Son La Hydroelectricity Reservoir)	350		2031-2035	New construction of 220 kV four-circuit transmission line of Son La 2 Floating Solar Power - into Huoi Quang - Son La	
	Tay Ninh Province		**450**	**314**		
1	Dau Tieng 5 Solar Power Plant	450	2025-2030		New construction of 220 kV Dau Tieng 5 Electrical Substation and 220 kV double-circuit transmission line from 220 kV Dau Tieng 5 Electrical Substation to 220 kV Tay Ninh Electrical Substation.	Resolved in accordance with Resolution No. 233/NQ-CP
2	Phase 1 Tan Chau - Tuan Dung Solar Power Plant	314		2031-2035	New construction of 220 kV transmission line transition on 220 kV Binh Long - Tay Ninh transmission line	
	Thai Nguyen		**220**			

	Province					
1	Ho Nui Coc Floating Solar Power Plant	220	2025-2030		Connecting busbar of 110 kV Ho Nui Coc Substation	
	Thanh Hoa Province		**333**	**52**		
1	Thanh Hoa 1 Solar Power Plant Project	128	2025-2030		110 kV four-circuit transmission line from 22/110 kV step-up substation of Thanh Hoa 1 Solar Power transition on two circuits of 110 kV transmission line from 220 kV Nghi Son - 220 kV Thanh Hoa	
2	Ngoc Lac Solar Power Plant	45	2025-2030		110 kV transmission line of Ngoc Lac Solar Power - Ngoc Lac	Resolved in accordance with Resolution No. 233/NQ-CP
3	Long Son - Thanh Hoa Solar Power	80	2025-2030		110 kV double-circuit transmission line from 22/110 kV step-up substation of Long Son Solar Power to busbar of 110 kV electrical substation of XM Long Son 2	
4	Yen My 1 Solar Power	80	2025-2030		Construction of 220 kV double-circuit transmission line from 220 kV electrical substation of Yen My Solar Power Plant transition on 220 kV Nong Cong - Nghi Son transmission line	
5	Yen My 2 Solar Power	52		2031-2035	Connecting existing 110 kV/220 kV transmission line	
	Tra Vinh Province		**50**			
1	Phase 2 Tra Vinh Solar Power Plant Project	50	2025-2030		- Installation of 1x63 MVA transformers connected 220 KV	

					electrical substation of existing Trung Nam - Tra Vinh Solar Power Plant. - Improvement of 220 kV transmission line of Trung Nam Tra Vinh Solar Power Plant - connecting existing 500 kV Duyen Hai Electrical Substation	
	Tuyen Quang Province		**198**	**200**		
1	Floating grid-connected solar power projects	198	2025-2030		Connecting local 110 kV, medium-voltage, low-voltage distribution grid	
2	Tuyen Quang 1 Floating Solar Power Project (on Tuyen Quang Hydroelectricity Reservoir)	80		2031-2035	New construction of 220 kV double-circuit transmission line of Tuyen Quang 1 Floating Solar Power - Tuyen Quang 2 Floating Solar Power	It is possible to expedite the process and implement in 2025 - 2030 period if conditions allow
3	Tuyen Quang 2 Floating Solar Power Project (on Tuyen Quang Hydroelectricity Reservoir)	120		2031-2035	New construction of 220 kV transmission line of Tuyen Quang 2 Floating Solar Power - into Tuyen Quang Hydroelectricity - Bac Kan; 220 kV transmission line of Tuyen Quang 2 Solar Power - into Tuyen Quang Hydroelectricity - Yen Son	
	Vinh Long Province	**50**				
1	Vinh Long 1 Solar Power Plant	50	2026-2035		110 kV double-circuit transmission line of Vinh Thanh Solar Power Plant to 110 kV Binh Minh - Cau Ke transmission line	
	Yen Bai Province	**1630**				
1	Yen Binh Solar Power	500	2025-2030		- IN respect of Cam An Complex: New	

					construction of 22/220 kV - 3x63 MVA step-up substation; new construction of 220 kV double-circuit transmission line from Yen Binh Solar Power Plant transition on a circuit of 220 kV Bao Thang - Yen Bai transmission line; - In respect of Phuc An Complex: New construction of 22/220 kV - 7x63 MVA substation; New construction of 220 kV double-circuit transmission line from Yen Binh Solar Power Plant transition on 220 kV Yen Bai - Tuyen Quang transmission line.	
2	Ho Thac Ba Floating Solar Power	500	2025-2030		220 kV double-circuit transmission line connecting 220 kV busbar of 220 kV Yen Bai Electrical Substation.	
3	My Gia 2 Solar Power	580	2025-2030		Construction of 220 kV double-circuit transmission line from 220 kV step-up substation of floating solar power plant of Thac Ba Lake transition on 220 kV Yen Bai - Tuyen Quang transmission line	
4	Tan Linh Solar Power	50	2025-2030		Construction of 22/110 kV - 1x63 MVA step-up substation; Construction of 110 kV single-circuit transmission line from Tan Linh Solar Power Plant to a 110 kV feeder bay of 220 kV Luc Yen Electrical Substation	

	Can Tho City	**50**				
1	Centralized Solar Power	50	2025-2030		Connecting medium-voltage, low-voltage distribution grid	
	Lao Cai Province	**100**				
1	Other centralized solar power	100	2025-2030		Proposed connection plan for subsequent period	
	Ha Nam Province	**50**				
1	Centralized solar power of Ha Nam Province	50	2025-2030		Connecting at 35 kV	

Schedule 15: List of biomass electricity projects of 50 MW capacity or higher and projects of below 50 MW connecting at 220 kV or higher

No.	Project	Expected capacity (MW)	Operating period	Note
	Yen Bai Province	**158**		
1	Yen Bai 1 Biomass Power Plant	50	2026-2030	QD 262/QD-TTg. 110 kV single-circuit transmission line connecting 110 kV Van Yen Electrical Substation
2	Truong Minh Biomass Power Plant	58	2026-2030	QD 262/QD-TTg. New construction of 220 kV Truong Minh - Yen Bai transmission line
3	Luc Yen Biomass Power	50	32 MW in 2025-2030 period; 18 MW in 2031-2035 period	Transition on 110 kV Luc Yen - Bao Thang transmission line
	Bac Kan Province	**50**		
1	Bac Kan 1 Biomass Power Plant	50	2026-2030	QD 1682/QD-TTg (35 MW), capacity adjustment. 110 kV double-circuit transmission line of Bac Kan 1 Biomass Power Plant - into Bac Kan - Phu Luong

	Lao Cai Province	**50**		
1	Bao Thang Biomass Power	50	2026-2030	QD 1682/QD-TTg (30 MW), capacity adjustment. New construction of 110 kV transmission line transition on 110 kV transmission line of electrical substation of Lao Cai Steel - 220 kV Bao Thang Electrical Substation
	Tuyen Quang Province	**100**		
1	Tuyen Quang Biomass Power Plant	50	2023-2030	QD 262/QD-TTg
2	Phase 2 Tuyen Quang Biomass Power Plant	50	32 MW in 2025-2030 period; 18 MW in 2031-2035 period	110 kV double-circuit Ham Yen - Tan Quang Cement transmission line
	Phu Tho Province	**50**		
1	Phu Tho Biomass Power Plant	50	20 MW in 2025-2030 period; 30 MW in 2031-2035 period	Transition on 110 kV Pho Vang - Tan Son transmission line
	An Giang Province	**104**		
1	An Giang 1 Biomass Power Plant	50	2026-2030	QD 1682/QD-TTg. New construction of 110 kV double-circuit transmission line connecting 110 kV Tri Ton Electrical Substation
2	Phase 2 An Giang 2 Biomass Power Plant	54	2031-2035	110 kV An Gian 2 Biomass Power Plant - Cai Dau transmission line
	Dien Bien Province	**55**		
1	Muong Nhe Biomass Power Plant (Nam Ke - 30 MW and Chung Chai - 25 MW)	55	2025-2030	110 kV double-circuit transmission line of MSS Chung Chai Biomass Power Plant - 220 kV Nam Po Electrical substation
	Hoa Binh Province	**100**		
1	Hoa Binh Biomass Power Plant	100	75 MW in 2025-2030	QD 1682/QD-TTg (30 MW), increase of capacity to 75 MW for

			period; 25 MW in 2031-2035 period	2025 - 2030 period, new construction of 110 kV double-circuit Hoa Binh Biomass Power Plant - Xuan Thien transmission line
	Phu Yen Province	**50**		
1	Thuan Phat Biomass Power Project	50	2025-2030	110 kV transmission line connecting 110 kV Song Hinh - Tuy Hoa transmission line
	Quang Binh Province	**172**		
1	Quang Binh Biomass Power Plant	50	2025-2030	QD 1682/QD-TTg (10 MW), increase of additional 40 MW. 110 kV single-circuit transmission line connecting 110 kV Tay Bac Quan Hau Electrical Substation
2	PIR-1 Quang Binh Biomass Power Plant	50	2025-2030	Transition on 110 kV Ang Son - Vinh Linh transmission line
3	Phase 1 An Viet Phat Quang Binh Biomass Power Plant	58	2025-2030	Connecting to feeder bay of 220 kV electrical substation of Ba Don Commune
4	Phase 2 An Viet Phat Quang Binh Biomass Power Plant	14	2031-2035	Connecting to feeder bay of 220 kV electrical substation of Ba Don Commune
	Quang Nam Province	**100**		
1	Tien Phuoc Biomass Power Project	50	2031-2035	110 kV transmission line connecting local grid
2	Quang Nam Biomass Power Project	50	2031-2035	110 kV transmission line connecting local grid
	Quang Ngai Province	**50**		
1	Tu Nghia Biomass Power	50	7 MW in 2025-2030 period; 43 MW in 2031-2035 period	Connecting to 110 kV Quang Phu Electrical Substation via 110 kV transmission line
	Thanh Hoa Province	**110**		
1	Thanh Hoa 1 Biomass Power	50	2025-2030	Transition on 110 kV Ngoc Lac - Thieu Yen transmission line
2	Thanh Hoa 2 Biomass Power	60	2025-2030	Transition on 2nd circuit of 110 kV Thieu Yen - Ba Thuoc transmission

				line
	Binh Dinh Province	**50**		
1	Binh Dinh Biomass Power Plant	50	2025-2030	110 kV Binh Dinh Biomass Power Plant - Phu Cat transmission line
	Dak Lak Province	**120**		
1	Dak Lak Biomass Power Plant	120	2025-2030	220 kV single-circuit transmission line from Dak Lak Biomass Power Plant - Krong Ana, step-up substation appropriate to capacity of power plant
	Gia Lai Province	**106**		
1	Increase of (extended) An Khe Biomass Power Plant capacity	40	2025-2030	By an additional 40 MW from 95 MW. 220 kV transmission line connecting 220 kV electrical substation of existing An Khe Biomass Power Plant. Replace 63 MVA transformers with 115 MVA transformers
2	Biomass Power Plant Complex of Gao Commune (3 power plants)	66	2031-2035	Transition on 110 kV Dien Hong - Chu Se transmission line
	Can Tho City	**150**		
1	Can Tho Biomass Power Plant	150	2025-2035	110 kV Long Xuyen 2 - Vinh Thanh transmission line
	Long An Province	**75**		
1	Long An Biomass Power Plant	75	33 MW in 2025-2030 period; 42 MW in 2031-2035 period	QD 1682/QD-TTg (13 MW). Transition on 110 kV Gaia Solar Power Plant - Long An 2 transmission line
	Binh Phuoc Province	**50**		
1	Binh Phuoc Biomass Power Plant	50	2025-2030	Connecting 110 kV Binh Long Electrical Substation
	Total capacity	**1.700**		

Schedule 16: List of waste-to-power projects of 50 MW capacity or higher and projects of below 50 MW connecting at 220 kV or higher

No.	Project	Expected capacity (MW)	Operating period	Note
	Hanoi City	**150**		
1	Soc Son Waste-to-power Plant	90	2024-2025	QD 1682/QD-TTg
2	Project for environmental remediation and waste incineration for electricity generation in Hanoi	60	2025-2030	110 kV double-circuit transmission line connecting 110 kV electrical substation of the project to 110 kV switching station of 220 kV Soc Son Electrical Substation
	Ho Chi Minh City	**260**		
1	Waste incineration plant for power generation project of VWS Company	60	2025-2030	Transition on 110 kV transmission line of 220 kV Binh Chanh Substation - 110 kV DEPOT Da Phuoc Substation
2	Phase 1 of waste incineration plant for power generation of Tam Sinh Nghia Investment Development JSC (increase to 60 MW from 40 MW)	60	2025-2030	110 kV double-circuit transmission line from Tam Sinh Nghia Waste Incineration Plant for electricity generation to T38E pole of project for 110 kV transmission line branch connecting 110 kV Phuoc Hiep Electrical Substation
3	Phase 2 of waste incineration plant for power generation of Tam Sinh Nghia Investment Development JSC	140	2025-2030	110 kV double-circuit transmission line from Tam Sinh Nghia Waste Incineration Plant for electricity generation to T38E pole of project for 110 kV transmission line branch connecting 110 kV Phuoc Hiep Electrical Substation
	Total capacity	**410**		

Schedule 17: List of off-shore wind power projects until 2030

No.	Off-shore wind power development area	Expected capacity (MW)	Estimated combination	
			Name of project	Capacity (MW)
1	Northern 1 Off-shore Wind Power	1500	Bac Bo 1.1 Off-shore Wind Power	500
			Bac Bo 1.2 Off-shore Wind Power	500
			Bac Bo 1.3 Off-shore Wind Power	500
2	Northern 2 Off-shore Wind Power	500	Bac Bo 2 Off-shore Wind Power	500
3	Northern 3 Off-shore Wind Power	500	Bac Bo 3 Off-shore Wind Power	500
4	South Central Coast 1 Off-shore Wind Power	1500	Nam Trung Bo 1.1 Off-shore Wind Power	500
			Nam Trung Bo 1.2 Off-shore Wind Power	500
			Nam Trung Bo 1.3 Off-shore Wind Power	500
5	South Central Coast 2 Off-shore Wind Power	500	Nam Trung Bo 2 Off-shore Wind Power	500
6	Southern 1 Off-shore Wind Power	500	Nam Bo 1 Off-shore Wind Power	500
7	Southern 2 Off-shore Wind Power	500	Nam Bo 2 Off-shore Wind Power	500
8	Southern 3 (*) Off-shore Wind Power	500	Nam Bo 3 Off-shore Wind Power	500

Note:

- Projects requiring solutions for satisfying operating schedule under approved planning. Determination of coordinates of off-shore wind power projects shall conform to regulations of the law and be implemented during project preparation in a manner that does not overlap other planning.

(*) Project is transferred from the Central Coast Region to the Southern Region.

Schedule 18: List of off-shore wind power projects until 2035 (MW)

No.	Off-shore wind power development area	Expected capacity (MW)	Estimated combination		Expected location for gathering electrical production	Operating period
			Name of component project	Capacity (MW)		
1	**The Northern Region**	**11200**				
1	Northern Region 1	2200	Bac Bo 1.1 (*)	500	Northern Station 1	2025-2030
			Bac Bo 1.2 (*)	500	Northern Station 1	2025-2030
			Bac Bo 1.3 (*)	500	Northern Station 1	2025-2030
			Bac Bo 1.4	700	Northern Station 1	2031-2035
2	Northern Region 2	1000	Bac Bo 2.1 (*)	500	Northern Station 1	2025-2030
			Bac Bo 2.2	500	Northern Station 1	2031-2035
3	Northern Region 3	1000	Bac Bo 3.1 (*)	500	Northern Station 3	2025-2030
			Bac Bo 3.2	500	Northern Station 3	2031-2035
4	Northern Region 4	1000	Bac Bo 4	1000	Northern Station 2	2031-2035
5	Northern Region 5	1000	Bac Bo 5	1000	Northern Station 2	2031-2035
6	Northern Region 6	1000	Bac Bo 6	1000	Northern Station 2	2031-2035

7	Northern Region 7	1000	Bac Bo 7	1000	Northern Station 2	2031-2035
8	Northern Region 8	1000	Bac Bo 8	1000	Northern Station 3	2031-2035
9	Northern Region 9	1000	Bac Bo 9	1000	Northern Station 4	2031-2035
10	Northern Region 10	1000	Bac Bo 10	1000	Northern Station 4	2031-2035
II	**The South Central Coast**	**4300**				
1	South Central Coast 1	2000	Nam Trung Bo 1.1 (*)	500	South Central Coast Station 1	2025-2030
			Nam Trung Bo 1.2 (*)	500	South Central Coast Station 1	2025-2030
			Nam Trung Bo 1.3 (*)	500	South Central Coast Station 1	2025-2030
			Nam Trung Bo 1.4	500	South Central Coast Station 1	2031-2035
2	South Central Coast 2	1000	Nam Trung Bo 2.1 (*)	500	South Central Coast Station 2	2025-2030
			Nam Trung Bo 2.2	500	South Central Coast Station 2	2031-2035
3	South Central Coast 3	1300	Nam Trung Bo 3	1300	South Central Coast Station 3	2031-2035
III	**The Southern Region**	**1500**				
1	Southern 1	500	Nam Bo 1 (*)	500	Southern Station 1	2025-2030
2	Southern 2	500	Nam Bo 2 (*)	500	Southern Station 2	2025-2030
3	Southern 3	500	Nam Bo 3 (*)	500	Southern	2025-2030

					Station 3	
	Total	**17000**				

Note:

- Determination of coordinates of wind power projects shall conform to regulations of the law and be implemented during project preparation in a manner that does not overlap other planning.

(*) Projects that have been defined until 2030 under Schedule 18.

Schedule 19: List of expected flexible thermal power projects

No.	Project	Expected capacity (MW)	Province/City	Operating period	Note
1	Ninh Binh Flexible Thermal Power Plant	300	Ninh Binh	2025 - 2030	QD 1682/QD-TTg
2	Ninh Binh 2 Flexible Thermal Power Plant	1200	Ninh Binh	2025 - 2030	
3	Hai Duong Flexible Thermal Power Plant	1200	Hai Duong	2025 - 2035	
4	Additional flexible thermal power (*)	Approximately 6.530		2025 - 2035	

Note:

(*) Expected list of additional flexible thermal power projects shall be clarified as per the law.

- Fuel used in flexible thermal power projects shall be made accurate during project preparation.

Schedule 20: Potential electricity export projects

No.	Project	Expected capacity (MW)	Type of power source	Note
1	Off-shore wind power export projects	8.000-10.000	Off-shore wind power	On the basis of proposition made by Singapore, Malaysia, and other countries
2	TGS Duyen Hai Off-shore Wind	2.000	Off-shore wind	Proposed by Tra

	Power Site		power	Vinh Province
3	Electricity export of Ca Mau Province	2.000-5.000	Renewable energy sources	Ca Mau Province
4	Bac Lieu 5 Wind Power Project	10.000	Off-shore wind power for export	Proposed by Bac Lieu Province

Note:

Electricity export projects shall be permitted for development on the basis of maintaining energy security, national security, and economic, technical conditions.

Appendix III.2

LIST OF PRIORITY TRANSMISSION GRIDS FOR RENOVATION AND CONSTRUCTION UNTIL 2030 AND ORIENTATION TO 2035

Schedule 1: List of ultra-high-voltage direct current (UHVDC) transmission structures for 2031 - 2035 period

No.	Name of structure	Size (km/MW)	Note
I	**2026-2030 period**		
1	500 kV Lao Cai AC/DC/AC Back-To-Back (B2B) Converter Station	3000 MW	Facilitating electricity connection and import from China, implemented upon obtaining approval for guidelines of electricity import from China via Lao Cai where B2B converter is built in Vietnamese territory.
II	**2031-2035 period**		
1	HVDC bipole transmission line from Trung Trung Bo 1 - Bac Bo 1	2x700km	Line length, cross section, and direction will be made accurate during project implementation in case of high development level of electricity sources in Vung Ang, Quang Dinh, Quang Tri. Take into consideration solutions that utilize direction of existing 500 kV Quang Tri - Vung Ang - Nho Quan.
2	Trung Trung Bo 1 Converter Station	5000-10000 MW	Size and location of the station will be made accurate during project implementation. Take into consideration for placement in Quang Binh, Quang Tri
3	Bac Bo Converter Station	5000-10000 MW	Size and location of the station will be made accurate during project implementation. Take into

			consideration for placement in Ha Nam, Nam Dinh, Thai Binh, Hai Duong, Bac Giang
4	HVDC bipole transmission line from Trung Trung Bo 2 - Bac Bo 2	2x1050km	Line length, cross section, and direction will be made accurate during project implementation
5	Trung Trung Bo 2 Converter Station	5000-10000 MW	Size and location of the station will be made accurate during project implementation. Take into consideration for placement in Quang Ngai
6	Bac Bo 2 Converter Station	5000-10000 MW	Size and location of the station will be made accurate during project implementation. Take into consideration for placement in western districts of Hanoi.
7	HVDC bipole transmission line from Nam Trung Bo - Bac Bo 3	2x1550km	Line length, cross section, and direction will be made accurate during project implementation. Reserve for higher development level of electricity sources of the South Central Coast.
8	Nam Trung Bo Converter Station	4000-10000 MW	Size and location of the station will be made accurate during project implementation. Take into consideration for placement in Ninh Thuan Province
9	Bac Bo 3 Converter Station	4000-10000 MW	Size and location of the station will be made accurate during project implementation. Take into consideration for placement in Hung Yen Province.
10	Transmission line from Ba Ria - Vung Tau to Hai Phong	2x1700km	Line length, cross section, and direction will be made accurate during project implementation in case of high development level of electricity sources in the Southern Region.

Note:

HVDC systems that transmit interregionally or over great distance (consisting of HVDC lines and AC-DC, DC-AC converter stations) require significant investment. It is necessary to conduct thorough research and overall evaluation during implementation of these systems on the basis of implementation schedule of electricity source projects (consisting of base electricity sources and renewable electricity sources), market indicators, and policies.

Schedule 2. Orientation of 765÷1000 kV UHVAC transmission lines and electrical substations during 2031 - 2035 period

No.	Name of structure	Scale (km/MVA)	Note

I	**2031-2035 period**		
1	765÷1000 kV Nam Trung Bo 1 - Nam Bo 1 transmission line	600km	Where development of electricity sources of the South Central Coast is higher than expected, take into consideration plans for utilizing uncurtailed output of nuclear energy and increase of transmission capability of South Central Coast - Southern Region via 765÷1000 kV UHVAC grid in lieu of 500 kV transmission plan. Line scale, progress, and direction will be made accurate during project implementation.
2	765÷1000 kV Nam Trung Bo 2 - Nam Bo 2 transmission line	600km	Where development of electricity sources of the South Central Coast is higher than expected, take into consideration plans for utilizing uncurtailed output of nuclear energy and increase of transmission capability of South Central Coast - Southern Region via 765÷1000 kV UHVAC grid in lieu of 500 kV transmission plan. Line scale, progress, and direction will be made accurate during project implementation.
3	765÷1000 kV Nam Trung Bo 1 Electrical Substation	4000 MVA	Build new in case of high development level of electricity sources in South Central Coast, synchronize 765÷1000 kV Nam Trung Bo 1 - Nam Bo 1 transmission line. Station progress, size, and location will be made accurate during project implementation.
4	765÷1000 kV Nam Trung Bo 2 Electrical Substation	4000 MVA	Build new in case of high development level of electricity sources in South Central Coast, synchronize 765÷1000 kV Nam Trung Bo 2 - Nam Bo 2 transmission line. Station progress, size, and location will be made accurate during project implementation.
5	765÷1000 kV Nam Bo 1 Electrical Substation	4000 MVA	Build new in case of high development level of electricity sources in South Central Coast, synchronize 765÷1000 kV Nam Trung Bo 1 - Nam Bo 1 transmission line. Station progress, size, and location will be made accurate during project implementation.
6	765÷1000 kV Nam Bo 2 Electrical Substation	4000 MVA	Build new in case of high development level of electricity sources in South Central Coast, synchronize 765÷1000 kV Nam Trung Bo 2 - Nam Bo 2 transmission line. Station progress,

			size, and location will be made accurate during project implementation.

Note:

The presence of 765-1000 kV UHVAC transmission system connecting the South Central Coast - the Southern Region in the Schedule above is associated with development of electricity sources in the South Central Coast (Ninh Thuan 3, 4 Nuclear Power, solar power, land-based wind power, off-shore wind power) and requires further research in feasibility and overall economic-technical effectiveness.

Schedule 3: List of 500 kV electrical substations for construction and renovation in the Northern Region

No.	Name of electrical substation	Capacity (MVA)	Note
I	**2025-2030 period**		
1	Tay Ha Noi	1800	Renovation, capacity increase
2	Son Tay	1800	New construction
3	Nam Ha Noi	1800	New construction
4	Dan Phuong	1800	New construction, consideration for connection to 220 kV Dan Phuong Substation
5	Hai Phong	1800	New construction
6	Hai Phong 2	1800	New construction
7	BB 1 (*)	2700	New construction, synchronized with off-shore wind power sources
8	Gia Loc	900	New construction
9	Pho Noi	1800	Renovation, capacity increase
10	Hung Yen 1	1800	New construction, renamed from 500 kV Long Bien Electrical Substation under the VIII Electricity Planning
11	Hung Yen 2	900	New construction
12	Nam Dinh	1800	New construction, referred to under list of 500 kV and 220 kV transmission lines as Nam Dinh Thermal Power, Nam Dinh 1 Thermal Power Plant

13	Thai Binh	1200	New construction
14	Hoa Binh 2 Switching Station	Switching station	New construction
15	Lao Cai	2700	New construction
16	Lang Son	1800	New construction
17	Yen Bai (*)	1800	New construction
18	Thai Nguyen	1800	New construction
19	Viet Tri	1800	Renovation, capacity increase
20	Vinh Yen	1800	New construction
21	Bac Giang	900	New construction
22	Yen The	900	New construction
23	Bac Ninh	1800	New construction
24	Bac Ninh 2	1800	New construction
25	Quang Ninh	1,800	New construction
26	Lai Chau	1800	Renovation, capacity increase
27	Than Uyen	2700	New construction
28	Dien Bien	2700	New construction
29	Son La 1 (*)	1800	New construction
30	Son La 2 (*)	1800	New construction
31	Hoa Binh	1800	Renovation, capacity increase
32	Nghi Son	1800	Renovation, capacity increase
33	Thanh Hoa	1800	Renovation, capacity increase
34	Nam Cam		New construction of switching station for electricity connection and import from Laos
35	Quynh Luu	1800	New construction
36	Ha Tinh 2	2700	New construction
37	Reservation for construction or renovation of electrical substation	4500	New construction, renovation, capacity increase
38	Constructions and projects improving control and operation capability of electrical		Including but are not limited to projects that: Replace, install reactors, SVC, SVG, FACTS equipment, etc.;

	substations and electrical system		expand feeder bay in substations, renovate, improve graphs of substations; install short circuit protection devices, replace and upgrade devices to resist short-circuited current, establish automatic circuit; install, replace equipment, control system, SCADA/ EMS, SCADA/DMS systems, automate the station, etc.,
II	**2031 - 2035 period**		
1	Thuong Tin	2700	Renovation, capacity increase
2	Dong Anh	2700	Renovation, capacity increase
3	Tay Ha Noi	2700	Renovation, capacity increase
4	Nam Ha Noi	2700	Renovation, capacity increase
5	Dan Phuong	2700	Renovation, capacity increase
6	Van Tri	1800	New construction
7	Hai Phong 2	2700	Renovation, capacity increase
8	BB 1 (*)	3600	Renovation, capacity increase
9	BB 2 (*)	3600	New construction, synchronization with off-shore wind power sources
10	Gia Loc	1800	Renovation, capacity increase
11	Hung Yen 1	2700	Renovation, capacity increase
12	Hung Yen 2	1800	Renovation, capacity increase
13	Ha Nam	1800	New construction
14	Nam Dinh	2700	Renovation, capacity increase, referred to under list of 500 kV and 220 kV transmission lines as Nam Dinh Thermal Power, Nam Dinh 1 Thermal Power Plant
15	Nam Dinh 2	900	New construction
16	Nam Dinh 3	1800	New construction, synchronization with load of Ninh Co Economic Zone (at request of People's Committee of Nam Dinh Province under Document No. 06/UBND-VP5 dated January 3, 2025) and in case of development of specialized load where 220 kV

			electrical substation does not supply sufficient electricity. Take into consideration of up to 3.600 MVA in capacity where load demand peaks; take into consideration for connection to self-production, self-consumption off-shore wind power and LNG sources to satisfy the load demand
17	Thai Binh	1800	Renovation, capacity increase
18	BB 4 (*)	2700	New construction, synchronization with off-shore wind power sources
19	Lang Son 2 (*)	1800	New construction
20	Ha Giang	1800	New construction
21	Thai Nguyen 2	900	New construction
22	Phu Tho	1800	New construction
23	Vinh Tuong	1800	New construction
24	Bac Giang	1800	Renovation, capacity increase
25	Yen The	1800	Renovation, capacity increase
26	Bac Ninh	2700	Renovation, capacity increase
27	Bac Ninh 2	2700	Renovation, capacity increase
28	Bac Ninh 3	1800	New construction
29	BB 3 (*)	2700	New construction, synchronization with off-shore wind power sources
30	Hai Ha	900	New construction
31	Quang Ninh 2	1800	Renovation, capacity increase
32	Lai Chau 1 Renewable Energy (*)	1800	New construction
33	Son La	2700	Renovation, capacity increase
34	Thanh Hoa	2700	Renovation, capacity increase
35	Tinh Gia	1800	New construction
36	Nam Cam	900	Additional installation of transformers at switching stations supplying electricity for local load (if needed), consideration for connecting to 220 kV Nam Cam Substation (if needed)
37	Ha Tinh	1800	Renovation, capacity increase

38	Reservation for construction or renovation of electrical substation	2700	New construction, renovation, capacity increase
39	Constructions and projects improving control and operation capability of electrical substations and electrical system		Including but are not limited to projects that: Replace, install reactors, SVC, SVG, FACTS equipment, etc.; expand feeder bay in substations, renovate, improve graphs of substations; install short circuit protection devices, replace and upgrade devices to resist short-circuited current, establish automatic circuit; install, replace equipment, control system, SCADA/ EMS, SCADA/DMS systems, automate the station, etc.,

Schedule 4: List of 500 kV transmission line for construction and renovation in the Northern Region

No.	Name of transmission line	Circuit	x	km	Note
I	**2025 - 2030 period**				
1	Circuit 2 of Nho Quan - Thuong Tin	1	x	75	Improvement to double-circuit from single-circuit
2	Dan Phuong - into Tay Ha Noi - Vinh Yen	4	x	5	Connecting 500 kV Dan Phuong Electrical Substation
3	Hung Yen 1 - into Pho Noi - Thuong Tin	2	x	8	Connecting 500 kV Hung Yen 1 Electrical Substation to replace 500 kV Long Bien transmission line - into Pho Noi - Thuong Tin under the VIII Electricity Planning
4	Hung Yen 2 - Hung Yen 1	2	x	35	Connecting 500 kV Hung Yen 2 Electrical Substation
5	Nam Ha Noi - into Nho Quan - Thuong Tin	4	x	5	Connecting 500 kV Nam Ha Noi Electrical Substation
6	Son Tay - Dan Phuong	2	x	20	Connecting 500 kV Son Tay Electrical Substation
7	Tay Ha Noi - Vinh Yen	2	x	70	New construction
8	BB 1 - Hai Phong (*)	2	x	25	New construction and synchronization in accordance with scale and progress of off-shore wind power in the

					Northern Region. Detail plans and workload will be made accurate during project implementation on the basis of actual ocean survey results.
9	Hai Phong - Thai Binh	2	x	38	Connecting 500 kV Hai Phong Electrical Substation
10	Quang Ninh 2 - into Quang Ninh - Pho Noi and Thang Long Thermal Power - Pho Noi	4	x	5	New construction
11	Hai Phong - Hai Phong 2	2	x	20	New construction
12	BB1 - Quang Ninh 2 (*)	2	x	60	New construction and synchronization in accordance with scale and progress of off-shore wind power in the Northern Region. Detail plans and workload will be made accurate during project implementation on the basis of actual ocean survey results.
13	Gia Loc - into Thai Binh - Pho Noi	4	x	13	Connecting 500 kV Gia Loc Electrical Substation
14	Thai Binh - into Nam Dinh Thermal Power - Pho Noi	4	x	1	Connecting 500 kV Thai Binh Electrical Substation
15	Nam Dinh - into Thanh Hoa - Pho Noi	4	x	1	Construction, connection, and completion of diagram of 500 KV Nam Dinh Electrical Substation.
16	Sam Nuea - Hoa Binh 2 Switching Station	2	x	110	New construction
17	Hoa Binh 2 Switching Station - into Hoa Binh - Nho Quan and Son La - Nho Quan	4	x	5	New construction
18	Hoa Binh 2 Switching Station - Tay Hanoi	2	x	80	New construction
19	Border of Vietnam - China - Lao Cai	2	x	65	Purchase of electricity from China
20	Lao Cai - Vinh Yen	2	x	210	Connecting 500 kV Lao Cai Electrical Substation, distributing load of small hydroelectricity and reserving electricity purchase from China
21	Lang Son - Bac Giang (*)	2	x	120	New construction

22	Lang Son - Yen The (*)	2	x	120	New construction
23	Yen Bai - Thai Nguyen (*)	2	x	100	New construction in case of high development level of renewable energy sources of the west of Northern Region, on the basis of renewable energy resources allocated to local governments under Document No. 1649/BCT-DL of the Ministry of Industry and Trade dated March 5, 2025.
24	Yen Bai - into Lao Cai - Vinh Yen (*)	4	x	20	New construction in case of high development level of renewable energy sources of the west of Northern Region, on the basis of renewable energy resources allocated to local governments under Document No. 1649/BCT-DL of the Ministry of Industry and Trade dated March 5, 2025.
25	Hiep Hoa - Thai Nguyen	2	x	29	Connecting 500 kV Thai Nguyen Electrical Substation
26	Yen The - Thai Nguyen	2	x	70	New construction
27	Vinh Yen - into Son La - Hiep Hoa and Viet Tri - Hiep Hoa	4	x	5	Connecting 500 kV Vinh Yen Electrical Substation
28	Bac Giang - Bac Ninh	2	x	40	New construction
29	Bac Giang - into Quang Ninh - Hiep Hoa	4	x	5	Connecting 500 kV Bac Giang Electrical Substation
30	Bac Ninh - into Dong Anh - Pho Noi	2	x	1	Connecting 500 kV Bac Ninh Electrical Substation
31	Bac Ninh 2 - into Bac Giang - Hiep Hoa	4	x	10	Connecting 500 kV Bac Ninh 2 Electrical Substation
32	Quang Ninh LNG - Quang Ninh	2	x	30	New construction, synchronization of electricity sources. Replacement for 500 kV transmission line of Quang Ninh 1 LNG - Quang Ninh under the VIII Electricity Planning. Where feeder bay expansion of 500 kV Quang Ninh Electrical Substation is not feasible, implement connection to 500 kV Quang Ninh - Hiep Hoa

					transmission line
33	Lai Chau - Than Uyen	2	x	75	New construction
34	Than Uyen - Yen Bai (*)	2	x	170	New construction in case of high development level of renewable energy sources of the west of Northern Region, on the basis of renewable energy resources allocated to local governments under Document No. 1649/BCT-DL of the Ministry of Industry and Trade dated March 5, 2025.
35	Dien Bien - Lai Chau (*)	2	x	50	New construction
36	Son la 1 - into Son La - Hoa Binh and Son La - Nho Quan (*)	2	x	150	New construction in case of high development level of renewable energy sources of the west of Northern Region, on the basis of renewable energy resources allocated to local governments under Document No. 1649/BCT-DL of the Ministry of Industry and Trade dated March 5, 2025.
37	Son La 1 - Son Tay (*)	2	x	150	New construction in case of high development level of renewable energy sources of the west of Northern Region, on the basis of renewable energy resources allocated to local governments under Document No. 1649/BCT-DL of the Ministry of Industry and Trade dated March 5, 2025.
38	Son La 2 - Son La 1 (*)	2	x	50	New construction in case of high development level of renewable energy sources of the west of Northern Region, on the basis of renewable energy resources allocated to local governments under Document No. 1649/BCT-DL of the Ministry of Industry and Trade dated March 5, 2025.
39	Extended Hoa Binh Hydroelectricity - into Hoa Binh - Nho Quan	2	x	1	Synchronized with Extended Hoa Binh Hydroelectricity

40	Quynh Luu - into Quang Trach - Thanh Hoa	4	x	5	New construction
41	Nghi Son LNG - Quynh Lap LNG	2	x	10	New construction, in case Nghi Son LNG, Quynh Lap LNG is behind on schedule, investment in Quynh Luu - Hung Yen 1 transmission line in advance
42	Nghi Son LNG - Hung Yen 2	2	x	190	New construction, in case Nghi Son LNG, Quynh Lap LNG is behind on schedule, investment in Quynh Luu - Hung Yen 2 transmission line in advance
43	Quynh Lap LNG - Quynh Luu	2	x	15	New construction, in case Nghi Son LNG, Quynh Lap LNG is behind on schedule, investment in Quynh Luu - Hung Yen 2 transmission line in advance
44	Connection to North Central Coast Pumped-storage Hydroelectricity	2	x	50	New construction, synchronization of electricity sources
45	Quang Trach II LNG - Quang Trach	2	x	1	New construction, synchronization of electricity sources.
46	Nam Cam Switching Station - into Vung Ang - Nho Quan	4	x	12	New construction, facilitating electricity connection and import from Laos. Transition on two circuits of existing 500 kV Vung An - Nho Quan transmission line (circuit 1 and 2)
47	Vung Ang - Hoa Binh 2 Switching Station	2	x	380	New construction, use of large cross-section bundled conductors, transition to connection of 500 kV transmission line of Vung Ang - into Da Nang - Ha Tinh (circuit 3 and 4) in combination with installation of high-temperature conductors for this section.
48	Vung Ang - into Ha Tinh - Da Nang (circuit 3 and 4)	2	x	16	Transition on second circuit of 500 kV Ha Tinh - Da Nang transmission line
49	Ha Tinh 2 - into Vung Ang - Ha Tinh (*)	4	x	5	New construction
50	Phila Wind Power - 500 k Nam Cam Switching Station	2	x	35	Proposed solution under document of provincial People's Committee for electricity import from Laos

51	Cha Lo Wind Power - 500 kV Ha Tinh Electrical Substation	2	x	50	Proposed solution under document of provincial People's Committee for electricity import from Laos
52	Connection to 500 kV Lao Cai AC/DC/AC (B2B) Converter Station	4	x	2	Facilitating electricity connection and import from China, implemented upon obtaining approval for guidelines of electricity import from China via Lao Cai where B2B converter is built in Vietnamese territory.
53	Reservation for electricity connection in Bolikhamsai Province, Khammouane Province of Laos			600	New construction
54	Reservation for construction or renovation of 500 kV transmission line			200	New construction and renovation
II	**2031 - 2035 period**				
1	Connection to Bac Bo 1 HVDC Converter Station (*)			120	Line length, cross section, and direction will be made accurate during project implementation.
2	Connection to Bac Bo 2 HVDC Converter Station (*)			120	Line length, cross section, and direction will be made accurate during project implementation.
3	Connection to Bac Bo 3 HVDC Converter Station (*)			120	Line length, cross section, and direction will be made accurate during project implementation.
4	Van Tri - Vinh Yen	2	x	40	New construction
5	BB 2 - into BB 1 - Hai Phong 2 (*)	4	x	5	New construction and synchronization in accordance with scale and progress of off-shore wind power in the Northern Region. Detail plans and workload will be made accurate during project implementation on the basis of actual ocean survey results.
6	Ha Nam - Thai Binh	2	x	20	New construction
7	Nam Dinh 2 - into Nghi Son LNG - Hung Yen 2	4	x	5	New construction
8	Nam Dinh - Nam Dinh 3	2	x	18	New construction, synchronization with 500 kV Nam Dinh 3 Electrical Substation

9	BB 4 - Bac Giang (*)	2	x	135	New construction and synchronization in accordance with scale and progress of off-shore wind power in the Northern Region. Detail plans and workload will be made accurate during project implementation on the basis of actual ocean survey results.
10	Ha Giang - into Yen Bai - Thai Nguyen	2	x	180	New construction
11	500 kV Lang Son 2 - into Lang Son - Yen The	4	x	10	New construction
12	Thai Nguyen 2 - Thai Nguyen - Yen The	2	x	20	New construction
13	Phu Tho - into Son La - Viet Tri	4	x	20	New construction
14	Son Tay - Vinh Tuong	2	x	20	New construction
15	Bac Ninh 3 - into Hung Yen 1 - Pho Noi	4	x	10	New construction
16	BB 3 - Lang Son (*)	2	x	140	New construction and synchronization in accordance with scale and progress of off-shore wind power in the Northern Region. Detail plans and workload will be made accurate during project implementation on the basis of actual ocean survey results.
17	Hai Ha - into BB 3 - Lang Son	2	x	5	New construction and synchronization in accordance with scale and progress of off-shore wind power in the Northern Region. Detail plans and workload will be made accurate during project implementation on the basis of actual ocean survey results.
18	Lai Chau 1 Renewable Energy - into Lai Chau - Than Uyen (*)	4	x	20	New construction
19	Cong Thanh LNGL - into Nghi Son - Nho Quan	2	x	20	New construction, synchronization of electricity sources. Specific connection plans will be made accurate during project implementation.

20	Phase 2 Thai Binh LNG - Thai Binh	2	x	50	New construction, synchronization of electricity sources. Specific connection plans will be made accurate during project implementation.
21	Vung Ang III LNG - into Vung Ang - Quang Trach	2	x	20	New construction, synchronization of electricity sources. Specific connection plans will be made accurate during project implementation.
22	Thanh Hoa LNG - Cong Thanh LNG	2	x	5	New construction, synchronization of electricity sources. Specific connection plans will be made accurate during project implementation.
23	Cong Thanh LNG - Bac Ninh 3	2	x	220	New construction, synchronization of electricity sources. Specific connection plans will be made accurate during project implementation. Take into consideration the employment of four-circuit pole and maximum utilization of direction of Nghi Son LNG - Hung Yen 1.
24	Connection to Bac Bo 1 Pumped-storage Hydroelectricity (*)	4	x	20	New construction, synchronization of electricity sources.
25	Dong Phu Yen Pumped-storage Hydroelectricity - into Son La - Viet Tri and Son La - Vinh Yen	4	x	20	New construction, synchronization of electricity sources.
26	Bac Bo 1 Pumped-storage Hydroelectricity - into Son La 1 - Son Tay (*)	4	x	20	New construction, synchronization of electricity sources.
27	Tinh Gia - into Nghi Son LNG - Hung Yen 2	4	x	4	New construction
28	Hai Phong LNG - 500 kV Hai Phong Electrical Substation (or 500 kV Gia Loc Electrical Substation)	2	x	45	Synchronization with Phase I Hai Phong LNG Power Plant
29	Quang Trach III LNG -	2	x	1	New construction, synchronization of

	Quang Trach				electricity sources.
30	Renovation of Quang Tri - Vung Ang (circuit 2)	2	x	200	New construction, reservation for deployment of Trung Trung Bo 1 - Bac Bo 1 HVDC, utilization of direction of existing 500 kV Quang Tri - Vung Ang
31	Extended Son La Hydroelectricity - Son La Hydroelectricity - Lai Chau	1	x	5	New construction, synchronization of electricity sources. Plans proposed under Document No. 862/EVN-KH of EVN dated February 11, 2025. Specific connection plans will be made accurate during project implementation.
32	Extended Lai Chau Hydroelectricity - into Lai Chau Hydroelectricity - Lai Chau	2	x	1	New construction, synchronization of electricity sources. Plans proposed under Document No. 862/EVN-KH of EVN dated February 11, 2025. Specific connection plans will be made accurate during project implementation.
33	Renovating Vung Ang - Nho Quan (circuit 1)	2	x	360	Renovation of existing 500 kV transmission line into double-circuit
34	Reservation for construction or renovation of 500 kV transmission line			340	

Schedule 5: List of 220 kV electrical substations for construction and renovation in the Northern Region

No.	Name of structure	Capacity (MVA)	Note
I	**2025 - 2030 period**		
1	Van Tri	750	Renovation, capacity increase
2	Tay Ha Noi	750	Renovation, capacity increase
3	Soc Son 2	250	New construction
4	Van Dien	500	New construction
5	Long Bien 2	500	New construction
6	Me Linh	500	New construction
7	Chuong My	250	New construction

8	Ung Hoa	500	New construction
9	Dai Mo	750	New construction
10	Hoa Lac	500	New construction
11	Cau Giay	250	New construction
12	Hai Ba Trung	250	New construction
13	Thanh Xuan	750	New construction
14	Dan Phuong	500	New construction
15	Phu Xuyen	250	New construction
16	Hoa Lac 2	500	New construction
17	Hanoi 2 Renewable Energy (*)	500	New construction
18	Vat Cach	500	Renovation, capacity increase
19	Hai Phong Thermal Power	500	Renovation, capacity increase
20	Do Son	250	New construction
21	An Lao	500	New construction
22	Dai Ban	250	New construction
23	Duong Kinh	500	New construction
24	Tien Lang	500	New construction
25	Cat Hai	500	New construction
26	Pha Lai Thermal Power	750	Renovation, capacity increase
27	Gia Loc	500	New construction
28	Tu Ky	250	New construction
29	Hai Duong Thermal Power	500	Renovation, capacity increase
30	Tan Viet	500	New construction
31	Thanh Ha	250	New construction
32	Nhi Chieu	250	New construction
33	Nam Sach	250	New construction
34	Thanh Mien	250	New construction
35	Associated 500 kV Hung Yen 2	250	New construction
36	Bai Say	500	New construction
37	Van Giang	250	New construction
38	Ly Nhan	500	New construction

39	Dong Van	750	New construction
40	Hai Hau	500	New construction
41	Nam Dinh 2	250	New construction
42	Nghia Hung	500	New construction
43	Nam Dinh 3	750	New construction
44	Giao Thuy	250	New construction
45	Quynh Phu	500	New construction
46	Vu Thu	500	New construction
47	Associated 500 kV Thai Binh	500	New construction
48	Ninh Binh 2	500	New construction
49	Associated 500 kV Nho Quan	500	Renovation, capacity increase
50	Tam Diep	250	New construction
51	Gia Vien	500	New construction, in case of relocation of 220 kV Ninh Binh Electrical Substation
52	Ha Giang	375	Renovation, capacity increase
53	Bac Quang	500	Renovation, capacity increase
54	Cao Bang	500	Renovation, capacity increase
55	Bac Ha	250	New construction
56	Bat Xat	500	New construction
57	Associated 500 kV Lao Cai	500	New construction
58	Van Ban	250	New construction
59	Bac Kan 1 (*)	500	New construction
60	Lang Son	500	Renovation, capacity increase
61	Dong Mo	500	New construction
62	Lang Son 2 (*)	500	New construction
63	Lang Son 1 (*)	500	New construction
64	Tuyen Quang	500	Renovation, capacity increase
65	Nghia Lo	500	New construction
66	Yen Bai	500	Renovation, capacity increase
67	Luc Yen	250	New construction

68	Yen Bai 1 (*)	500	New construction
69	Yen Bai 2 (*)	500	New construction
70	Song Cong	500	New construction
71	Phu Binh 2	500	New construction
72	Dai Tu	250	New construction
73	Thai Nguyen 2 Renewable Energy (*)	500	New construction
74	Phu Tho 2	500	New construction
75	Associated 500 kV Viet Tri	500	New construction
76	Phu Tho 3	250	New construction
77	Tam Duong	500	New construction
78	Ba Thien	500	New construction
79	Phuc Yen	250	New construction
80	Chan Hung	250	New construction
81	Associated 500 kV Bac Giang	500	New construction
82	Lang Giang	250	New construction
83	Yen Dung	500	New construction
84	Hiep Hoa 2	500	New construction
85	Tan Yen	500	New construction
86	Viet Yen	500	New construction
87	Bac Giang 1 (*)	500	New construction
88	Bac Ninh 6	500	New construction
89	Bac Ninh 4	500	New construction
90	Bac Ninh 5	500	New construction
91	Bac Ninh 7	500	New construction
92	Associated 500 kV Bac Ninh	500	New construction
93	Hoanh Bo	500	Renovation, capacity increase
94	Cam Pha	500	Renovation, capacity increase
95	Associated 500 kV Quang Ninh	500	Renovation, capacity increase
96	Khe Than	126	New construction
97	Mong Cai	500	New construction

98	Yen Hung	750	Renovation, capacity increase
99	Hai Ha 2	250	New construction as replacement of 220 kV Hai Ha Industrial Park Electrical Substation
100	Cong Hoa	500	New construction
101	Nam Hoa	500	New construction
102	Quang Ninh 1 (*)	500	New construction
103	Quang Ninh 2 Renewable Energy (*)	500	New construction
104	Muong Te	750	Renovation, capacity increase
105	Pac Ma	500	New construction
106	Phong Tho	500	New construction
107	Sin Ho	250	New construction
108	Than Uyen	750	Renovation, capacity increase
109	Lai Chau 1 Renewable Energy (*)	500	New construction
110	Lai Chau 2 Renewable Energy (*)	500	New construction
111	Dien Bien	500	New construction
112	Dien Bien 1 (*)	500	New construction
113	Dien Bien 2 (*)	500	New construction
114	Muong La	500	Renovation, capacity increase
115	Song Ma	250	New construction
116	Moc Chau	250	New construction
117	Phu Yen	375	New construction
118	Son La 1 (*)	250	New construction
119	Son La 2 (*)	500	New construction
120	Son La 3 (*)	500	New construction
121	Son La 4 (*)	500	New construction
122	Son La 5 (*)	500	New construction
123	Son La 6 (*)	500	New construction
124	Hoa Binh	500	Renovation, capacity increase

125	Yen Thuy	250	Renovation, capacity increase
126	Tan Lac	250	New construction
127	Sam Son	500	New construction
128	Tinh Gia	500	New construction
129	Nghi Son Economic Zone	750	Renovation, capacity increase
130	Nghi Son Petroleum and Refinery	500	New construction
131	Hau Loc	500	New construction
132	Thieu Hoa	250	New construction
133	Thieu Yen	250	New construction
134	Thanh Hoa 1 (*)	500	New construction
135	Dong Vang	500	New construction
136	Nghi Son 2	500	New construction
137	Do Luong	500	Renovation, capacity increase
138	Nam Cam	500	New construction
139	Quy Hop	250	New construction
140	Tuong Duong	250	Renovation, capacity increase
141	Ba Thuoc	250	New construction
142	Hoang Mai	500	New construction
143	Hoang Mai 2	250	New construction
144	Associated 500 kV Quynh Luu	500	New construction
145	Nghe An 1 Renewable Energy (*)	500	New construction
146	Nghe An 2 Renewable Energy (*)	500	New construction
147	Ha Tinh	500	Renovation, capacity increase
148	Can Loc	250	New construction
149	Vung Ang	500	New construction
150	Vung Ang 2	500	New construction
151	Ha Tinh 1 (*)	500	New construction
152	Ha Tinh 2 Renewable Energy (*)	500	New construction
153	Ha Tinh 3 Renewable Energy (*)	500	New construction

154	Ha Tinh 4 Renewable Energy (*)	500	New construction
155	Ha Tinh 5 Renewable Energy (*)	500	New construction
156	Reservation for construction or renovation of additional 500 kV electrical substation	3750	New construction, renovation, and capacity increase
157	Installation of fault current limiters at, including but not limited to, busbars of 500 kV electrical substations of Pho Noi, Tay Hanoi, Hiep Hoa, Dan Phuong, Bac Ninh, Pha Lai Thermal Power, Trang Bach		Limiting short-circuit current
158	Renovation of flexible busbar diagrams with 4 busbar sections including but not limited to 500 kV electrical substations of Nho Quan, Son La, Dong Anh and substation of Van Tri, Vat Cach, Long Bien, Truc Ninh, Thai Binh, Ha Dong, Thanh Nghi, Bac Ninh 2, Hai Duong Thermal Power		Limiting short-circuit current, increasing electricity supply reliability
159	Constructions and projects improving control and operation capability of electrical substations and electrical system		Including but are not limited to projects that: Replace, install reactors, SVC, SVG, FACTS equipment, etc.; expand feeder bay in substations, renovate, improve graphs of substations; install short circuit protection devices, replace and upgrade devices to resist short-circuited current, establish automatic circuit; install, replace equipment, control system, SCADA/ EMS, SCADA/DMS systems, automate the station, etc.,
II	**2031 - 2035 period**		
1	Soc Son 2	750	Renovation, capacity increase
2	Van Dien	750	Renovation, capacity increase
3	Long Bien 2	750	Renovation, capacity increase
4	Xuan Mai	750	Renovation, capacity increase

5	Chuong My	500	Renovation, capacity increase
6	Ung Hoa	750	Renovation, capacity increase
7	Hoa Lac	750	Renovation, capacity increase
8	Cau Giay	500	Renovation, capacity increase
9	Hai Ba Trung	750	Renovation, capacity increase
10	Dan Phuong	750	Renovation, capacity increase
11	Phu Xuyen	500	Renovation, capacity increase
12	Dong Anh 2	500	New construction
13	Dong Anh 3	500	New construction
14	Hoa Lac 2	750	Renovation, capacity increase
15	Phuc Tho	500	New construction
16	Thanh Tri	500	New construction
17	Thanh Oai	500	New construction
18	Associated 500 kV Van Tri	500	New construction
19	Van Tri 2	500	New construction
20	Dinh Vu	750	Renovation, capacity increase
21	Do Son	500	Renovation, capacity increase
22	An Lao	750	Renovation, capacity increase
23	Thuy Nguyen	750	Renovation, capacity increase
24	Dai Ban	500	Renovation, capacity increase
25	Hai Phong 2	250	New construction
26	Dinh Vu 2	500	New construction
27	Gia Loc	750	Renovation, capacity increase
28	Tu Ky	500	Renovation, capacity increase
29	Thanh Ha	500	Renovation, capacity increase
30	Nhi Chieu	500	Renovation, capacity increase
31	Nam Sach	500	Renovation, capacity increase
32	Thanh Mien	500	Renovation, capacity increase
33	Pho Noi	750	Renovation, capacity increase
34	Pho Cao	750	Renovation, capacity increase
35	Associated 500 kV Hung Yen	500	Renovation, capacity increase

36	Van Giang	500	Renovation, capacity increase
37	Associated 500 kV Pho Noi	750	Renovation, capacity increase
38	Phu Ly	750	Renovation, capacity increase
39	Thanh Nghi	750	Renovation, capacity increase
40	Ly Nhan	750	Renovation, capacity increase
41	Kim Bang	500	New construction
42	Nam Dinh 2	500	Renovation, capacity increase
43	Giao Thuy	500	Renovation, capacity increase
44	Associated 500 kV Nam Dinh 2	500	New construction
45	Associated 500 kV Thai Binh	750	Renovation, capacity increase
46	Tien Hai	500	New construction
47	Ninh Binh 2	750	Renovation, capacity increase
48	Tam Diep	500	Renovation, capacity increase
49	Ha Giang	500	Renovation, capacity increase
50	Ha Giang 2	250	New construction
51	Quang Uyen	250	New construction
52	Associated 500 kV Lao Cai	750	Renovation, capacity increase
53	Van Ban	500	Renovation, capacity increase
54	Lao Cai 2	250	New construction
55	Lao Cai 3 Renewable Energy (*)	500	New construction
56	Dong Mo	750	Renovation, capacity increase
57	Tuyen Quang Hydroelectricity	250	Renovation, capacity increase
58	Son Duong	500	New construction
59	Luc Yen	500	Renovation, capacity increase
61	Dai Tu	500	Renovation, capacity increase
62	Phuc Xuan	500	New construction
63	Phu Luong	500	New construction
64	Phu Binh 3	500	New construction
65	Phu Tho 3	500	Renovation, capacity increase
66	Viet Tri 2	500	New construction
67	Associated 500 kV Phu Tho	500	New construction

68	Vinh Yen	750	Renovation, capacity increase
69	Ba Thien	750	Renovation, capacity increase
70	Phuc Yen	500	Renovation, capacity increase
71	Chan Hung	500	Renovation, capacity increase
72	Associated 500 kV Vinh Tuong	500	New construction
73	Lang Giang	500	Renovation, capacity increase
74	Yen Dung	750	Renovation, capacity increase
75	Son Dong	500	Renovation, capacity increase
76	Tan Yen	750	Renovation, capacity increase
77	Viet Yen	750	Renovation, capacity increase
78	Chu	500	New construction
79	Bac Ninh	750	Renovation, capacity increase
80	Bac Ninh 3	750	Renovation, capacity increase
81	Bac Ninh 2	750	Renovation, capacity increase
82	Bac Ninh 6	750	Renovation, capacity increase
83	Associated 500 kV Bac Ninh 2	500	New construction
84	Associated 500 kV Bac Ninh 3	500	New construction
85	Bac Ninh 10	750	New construction
86	Bac Ninh 9	750	New construction
87	Associated 500 kV Quang Ninh	750	Renovation, capacity increase
88	Hai Ha 2	500	Renovation, capacity increase
89	Van Don	250	New construction
90	Sin Ho	750	Renovation, capacity increase
91	Lai Chau 3 Renewable Energy (*)	500	New construction
92	Lai Chau 4 Renewable Energy (*)	500	New construction
93	Song Ma	500	Renovation, capacity increase
94	Yen Thuy	500	Renovation, capacity increase
95	Luong Son	250	New construction
96	Hoa Binh 1 (*)	250	New construction

97	Thieu Hoa	500	Renovation, capacity increase
98	Thieu Yen	500	Renovation, capacity increase
99	Associated 500 kV Tinh Gia	500	New construction
100	Quy Hop	500	Renovation, capacity increase
101	Tuong Duong	500	Renovation, capacity increase
102	Hoang Mai 2	500	Renovation, capacity increase
103	Hung Nguyen	500	New construction
104	Cua Lo	500	New construction
105	Can Loc	500	Renovation, capacity increase
106	Loc Ha	250	New construction
107	Reservation for construction or renovation of additional 500 kV electrical substation	2750	New construction, renovation, and capacity increase
108	Constructions and projects improving control and operation capability of electrical substations and electrical system		Including but are not limited to projects that: Replace, install reactors, SVC, SVG, FACTS equipment, etc.; expand feeder bay in substations, renovate, improve graphs of substations; install short circuit protection devices, replace and upgrade devices to resist short-circuited current, establish automatic circuit; install, replace equipment, control system, SCADA/ EMS, SCADA/DMS systems, automate the station, etc.,

Schedule 6: List of 220 kV transmission lines in the Northern Region for construction and renovation

No.	Name of transmission line	Circuit	x	km	Note
I	**2025 - 2030 period**				
1	500 kV Dong Anh - Van Tri	2	x	16	New construction
2	Dai Mo (My Dinh) - into Tay Ha Noi - Thanh Xuan	4	x	2	Connecting 220 kV Dai Mo Electrical Substation
3	Tay Ha Noi - Thanh Xuan	4	x	16	Connecting 220 kV Thanh Xuan Electrical Substation
4	Renovation of 220 kV Son	2	x	30	Renovation from single circuit to

	Tay - Vinh Yen Transmission Line from single circuit to double circuit				double circuit, and transition to double-circuit Son Tay - Vinh Yen transmission line
5	Chuong My - into Hoa Binh - Ha Dong	2	x	2	Connecting 220 kV Chuong My Electrical Substation
6	500 kV Dan Phuong - Me Linh	2	x	15	New construction
7	500 kV Dan Phuong - Cau Giay	2	x	20	Overhead transmission line and submarine cable (inner city), connecting 220 kV Cau Giay Electrical Substation
8	Connecting 500 kV Dan Phuong - into Chem - Van Tri and Chem - Tay Ho	4	x	11	New construction
9	500 kV Nam Ha Noi - into Ha Dong - Phu Ly	4	x	5	New construction
10	Hai Ba Trung - Mai Dong	2	x	3	Submarine cable, connecting 220 kV Hai Ba Trung Electrical Substation
11	Hai Ba Trung - Thanh Cong	2	x	5	Submarine cable, connecting 220 kV Hai Ba Trung Electrical Substation
12	Long Bien - Mai Dong	2	x	15	New construction
13	Long Bien 2 - Mai Dong - Long Bien	4	x	3	Connecting 220 kV Long Bien 2 Electrical Substation
14	500 kV Hung Yen 1 - Long Bien 2	2	x	20	Connecting 220 kV side of 500 kV Hung Yen 1 Electrical Substation
15	500 kV Hung Yen 1 - into Pho Noi - Thuong Tin	4	x	4	New construction
16	2nd circuit of Ha Dong - Ung Hoa - Phu Ly	2	x	40	Renovation from single circuit to double circuit, expansion of feeder bay of 220 kV Ung Hoa Electrical Substation
17	Me Linh - Soc Son -Van Tri (circuit 1)	2	x	2	Connecting 220 kV Me Linh Electrical Substation
18	Me Linh - Soc Son -Van Tri (circuit 2)	2	x	2	Connecting 220 kV Me Linh Electrical Substation. Converting 220 kV transmission line of 500 kV Vinh Yen - Me Linh and Me

					Linh - Van Tri into Vinh Yen - Van Tri where short-circuit current of the area exceeds the permissible limit
19	500 kV Nam Ha Noi - Phu Xuyen	2	x	15	Connecting 220 kV Phu Xuyen Electrical Substation
20	Hoa Binh - Tay Ha Noi (circuit 4)	1	x	50	New construction, utilization of existing Hoa Binh - Ha Dong (circuit 3) transmission line. Synchronization with renovation of 220 kV distribution yard of Hoa Binh Hydroelectricity to limit short-circuit current
21	Increase of load capacity of 500 kV Thuong Tin - Pho Noi	2	x	34	Increase of load capacity of a circuit of Thuong Tin - 220 kV Pho Noi Electrical Substation, a circuit load of Thuong Tin - 500 kV Pho Noi Electrical Substation
22	Increase of load capacity of Hiep Hoa - Soc Son	2	x	10	Increase of load capacity of two circuits of 220 kV Hiep Hoa - Soc Son transmission line, removal ò the other two circuits to limit short circuit
23	Increase of load capacity of Van Tri - Tay Ho - Chem	2	x	20	Electricity supply for Hanoi
24	Increase of load capacity of Xuan Mai - Ha Dong	1	x	25	Renovation
25	Soc Son 2 - into Hiep Hoa - Dong Anh	2	x	3	Connecting 220 kV Soc Son 2 Electrical Substation
26	500 kV Son Tay - Hoa Lac	2	x	12	New construction
27	500 kV Son Tay - Hoa Lac 2	2	x	15	New construction
28	500 kV Son Tay - into Son Tay - Vinh Yen	4	x	5	New construction
29	500 kV Tay Ha Noi - Hoa Lac	2	x	14	New construction
30	Ung Hoa - into Ha Dong - Phu Ly	2	x	1	Connecting 220 kV Ung Hoa Electrical Substation
31	Van Dien - into Ha Dong - Thuong Tin	4	x	7	Connecting 220 kV Van Dien Electrical Substation

32	Hanoi 2 Renewable energy - Son Tay (*)	2	x	15	New construction
33	Duong Kinh - into Dong Hoa - Dinh Vu	4	x	3	Connecting 220 kV Duong Kinh Electrical Substation, merging connection of Hai Duong 2 - Dong Hoa and Dong Hoa - Dinh Vu into Hai Duong 2 - Dinh Vu
34	An Lao - into Dong Hoa - Thai Binh	4	x	2	Connecting 220 kV An Lao Electrical Substation
35	Cat Hai - Dinh Vu	2	x	12	In case of inability to expand feeder bay of 220 kV Dinh Vu Electrical Substation, considering connection to a circuit of 220 kV Dinh Vu - Duong Kinh transmission line
36	Dai Ban - into Hai Duong 2 - Duong Kinh	4	x	2	Connecting 220 kV Dai Ban Electrical Substation
37	Do Son - Duong Kinh	2	x	8	Connecting 220 kV Do Son Electrical Substation
38	500 kV Hai Phong 2 - into Dong Hoa - Vat Cach	4	x	10	New construction
39	500 kV Hai Phong 2 - Dai Ban	4	x	5	New construction, consideration for connection to 220 kV Dai Ban Electrical Substation
40	500 kV Hai Phong - Duong Kinh	2	x	8	New construction
41	500 kV Hai Phong - Tien Lang	2	x	14	Connecting 220 kV Tien Lang Electrical Substation
42	Nam Hoa - Cat Hai	2	x	12	New construction
43	BB 1 - Do Son (*)	2	x	10	New construction, synchronization in accordance with scale and progress of off-shore wind power sources in the Northern Region. Detail plans and workload will be made accurate during project implementation on the basis of actual ocean survey results.
44	Gia Loc - into Hai Duong Thermal Power - Pho Noi	4	x	5	New construction

45	500 kV Hai Phong - Gia Loc	2	x	32	New construction
46	500 kV Gia Loc - into Gia Loc - 500 kV Hai Phong	4	x	5	Connecting 500 kV Gia Loc Electrical Substation, in case land fund for connection to 220 kV Gia Loc is not allocated
47	Nhi Chieu - into Mao Khe - Hai Duong 2	4	x	2	Connecting 220 kV Nhi Chieu Electrical Substation
48	Tan Viet - into Gia Loc - Pho Noi	4	x	3	Connecting 220 kV Tan Viet Electrical Substation
49	Thanh Ha - into 500 kV Hai Phong - Gia Loc	2	x	12	Connecting 220 kV Thanh Ha Electrical Substation
50	Tu Ky - into 500 kV Hai Phong - Gia Loc	4	x	4	New construction
51	500 kV Gia Loc - Thanh Mien	2	x	11	New construction
52	Nam Sach - Hai Duong Thermal Power	2	x	11	New construction
53	Bai Say - Kim Dong	2	x	11	Connecting 220 kV Bai Say Electrical Substation
54	500 kV Hung Yen 2 - Dong Van	2	x	14	Connecting 500 kV Hung Yen 2 Electrical Substation
55	500 kV Hung Yen 2 - into Kim Dong - Pho Cao	4	x	5	Connecting 500 kV Hung Yen 2 Electrical Substation
56	Van Giang - into 500 kV Hung Yen 1 - 500 kV Thuong Tin	4	x	2	Connecting 220 kV Van Giang Electrical Substation
57	Circuit 2 of Nho Quan - Phu Ly	1	x	40	New construction, renovation from single-circuit to double-circuit
58	Dong Van - Phu Ly	2	x	17	Connecting 220 kV Dong Van Electrical Substation, in case of failure to expand feeder bay of Phu Ly, connecting Ha Dong - Phu Ly
59	Ly Nhan - into Thanh Nghi - Thai Binh	4	x	2	Connecting 220 kV Ly Nhan Electrical Substation
60	Hai Hau - Truc Ninh	2	x	17	Connecting 220 kV Hai Hau Electrical Substation
61	Nam Dinh 2 - into Truc Ninh	4	x	2	connecting 220 kV Nam Dinh 2

	- Ninh Binh and Truc Ninh - Nam Dinh				Electrical Substation
62	500 kV Nam Dinh Thermal Power - Hai Hau	2	x	10	Connecting 500 kV Nam Dinh Electrical Substation
63	500 kV Nam Dinh Thermal Power - Hau Loc	2	x	47	Connecting 500 kV Nam Dinh Electrical Substation
64	500 kV Nam Dinh Thermal Power - Nam Dinh 3	2	x	18	Synchronized with development progress of dedicated load
65	500 kV Nam Dinh Thermal Power - Ninh Binh 2	2	x	30	Large cross-section bundled conductors. Connecting 500 kV Nam Dinh Electrical Substation
66	Nghia Hung - into 500 kV Nam Dinh Thermal Power - Hau Loc	4	x	2	Connecting 220 kV Nghia Hung Electrical Substation
67	Giao Thuy - into Thai Binh LNG - Truc Ninh	4	x	4	New construction, connecting 220 kV Giao Thuy Electrical Substation
68	Vu Thu - into Thai Binh - Nam Dinh and Thai Binh - Ninh Binh	4	x	2	Connecting 220 kV Vu Thu Electrical Substation
69	Thai Binh LNG - Tien Lang	2	x	56	New construction, synchronized with electricity sources
70	Thai Binh LNG - Truc Ninh	2	x	50	New construction, synchronized with electricity sources
71	Quynh Phu - into Thai Binh - Dong Hoa	4	x	2	Connecting 220 kV Quynh Phu Electrical Substation
72	500 kV Thai Binh - into Thai Binh - Kim Dong	4	x	5	Connecting 220 kV side of 500 kV Thai Binh
73	500 kV Thai Binh - Thanh Nghi	2	x	53	New construction
74	Renovation of 220 kV Gia Vien - Tam Diep - Bim Son transmission line from single circuit to double circuit	2	x	34	220 kV Gia Vien - Tam Diep - Bim Son transmission line replacing 220 kV Ninh Binh - Tam Diep - Bim Son transmission line in case of relocation of 220 kV Ninh Binh Electrical Substation
75	Gia Vien - Nam Dinh	2	x	13	Connecting Gia Vien - Nam Dinh, in case of relocation of 220 kV Ninh Binh Electrical Substation

76	Gia Vien - into 500 kV Nho Quan - Ninh Binh	4	x	1	Connecting 220 kV Gia Vien Electrical Substation
77	Increase of load capacity of 500 kV Nho Quan - Ninh Binh	2	x	26	Renovation
78	Ninh Binh 2 - into Ninh Binh - Thai Binh	2	x	12	Connecting 220 kV Ninh Binh 2 Electrical Substation
79	Tam Diep - into Bim Son - Ninh Binh	4	x	5	Connecting 220 kV Tam Diep Substation on one circuit first, connecting the other circuit with 220 kV Gia Vien - Tam Diep - Bim Son transmission line
80	Ninh Binh Flexible Power Plant - into 500 kV Nam Dinh - Hau Loc	2	x	16	New construction, synchronization with Ninh Binh Flexible Power Plant
81	Bac Quang - border of Vietnam - China (Ha Giang Province)	2	x	55	Increase of electricity purchase from China
82	Increase of load capacity of Ha Giang - into Bac Me Hydroelectricity and Ha Giang - Thai Nguyen			42+51	Increase of load capacity of AC410 sections on Ha Giang - Bac Me Hydroelectricity (42 km) and Ha Giang - Thai Nguyen (51 km)
83	Installing 2nd circuit of Ha Giang - border of Vietnam - China	1	x	30	Increase of electricity purchase from China
84	Bao Lam - Bac Me	2	x	30	Carrying uncurtailed output of Ha Giang Small-scale Hydroelectricity
85	Cao Bang - Lang Son	2	x	120	New construction
86	Bat Xat - 500 kV Lao Cai	2	x	47	Connecting 220 kV Bat Xat Electrical Substation
87	Connecting 500 kV Lao Cai	4	x	5	Connecting 500 kV Lao Cai Electrical Substation, into Bao Thang - Yen Bai
88	500 kV Bac Ha - Lao Cai	1	x	50	Synchronization depending on scale and progress of electricity sources in the area
89	Bac Ha Hydroelectricity -	1	x	5	Load reduction for 220 kV Bao

	into 500 kV Lao Cai				Thang - 500 kV Lao Cai transmission line
90	Than Uyen - 500 kV Lao Cai	2	x	73	Connecting 220 kV Than Uyen Electrical Substation, accommodating uncurtailed output of small-scale hydroelectricity
91	Van Ban - into Than Uyen - 500 kV Lao Cai	4	x	10	Connecting 220 kV Van Ban, accommodating uncurtailed output of small-scale hydroelectricity
92	Increase of load capability of 500 kV Lao Cai - Luc Yen	2	x	90	Renovation
93	Bac Kan 1 - Bac Kan (*)	2	x	10	New construction
94	Dong Mo - into Bac Giang - Lang Son	4	x	1	Connecting 220 kV Dong Mo Electrical Substation
95	Lang Son 1 - Dong Mo (*)	2	x	60	Synchronization depending on scale and progress of electricity sources in the area
96	Lang Son 2 - 500 kV Lang Son 1 (*)	2	x	20	New construction
97	Yen Son Hydroelectricity - into Tuyen Quang Electricity - Tuyen Quang	2	x	8	Synchronization with Yen Son Hydroelectricity
98	Nghia Lo - Viet Tri (500 kV Viet Tri)	2	x	93	Accommodating small-scale hydroelectricity
99	Huoi Quang - Nghia Lo	2	x	103	Accommodating small-scale hydroelectricity
100	Connecting Bac Quang - Luc Yen	2	x	1	Relocating Bac Quang connection to Luc Yen
101	Luc Yen - into 220 kV Lao Cai - Yen Bai	4	x	5	New construction
102	Increase of load capacity of Luc Yen - Yen Bai	2	x	58	Increase of load capacity, electricity purchase from China
103	Increase of load capacity of Yen Bai - Tuyen Quang	2	x	36	Increase of load capacity, electricity purchase from China
104	Yen Bai 2 - 500 kV Yen Bai (*)	2	x	10	New construction
105	500 kV Yen Bai - into Yen Bai - Tuyen Quang (*)	4	x	5	New construction

106	Yen Bai 1 - 500 kV Yen Bai (*)	2	x	10	New construction
107	Connecting An Binh Hydroelectricity (*)	2	x	10	New construction, synchronized with electricity sources. Document No. 27/UBND-CN dated January 4, 2025 proposing transition on 220 kV Bao Thang - Yen Bai transmission line. Specific connection plans will be made accurate during project implementation.
108	Connecting An Thinh Hydroelectricity (*)	2	x	10	New construction, synchronized with electricity sources. Document No. 27/UBND-CN dated January 4, 2025 proposing transition on 220 kV Bao Thang - Yen Bai transmission line. Specific connection plans will be made accurate during project implementation.
109	Connecting Viet Thanh Hydroelectricity (*)	2	x	10	New construction, synchronized with electricity sources. Document No. 27/UBND-CN dated January 4, 2025 proposing transition on 220 kV Bao Thang - Yen Bai transmission line. Specific connection plans will be made accurate during project implementation.
110	Thai Nguyen 2 Renewable Energy - into Tuyen Quang - 500 kV Thai Nguyen (*)	2	x	10	New construction, synchronized with electricity sources
111	Phu Binh 2 - into Thai Nguyen - Bac Giang	2	x	13	Connecting 220 kV Phu Binh 2 Electrical Substation
112	500 kV Hiep Hoa - Phu Binh 2	2	x	14	Connecting 220 kV Phu Binh 2 Electrical Substation
113	500 kV Thai Nguyen - into Luu Xa - Phu Binh	2	x	13	Connecting 220 kV side of 500 kV Thai Nguyen Electrical Substation
114	500 kV Thai Nguyen - into Malungtang - Thai Nguyen	2	x	14	Connecting 220 kV side of 500 kV Thai Nguyen Electrical Substation
115	500 kV Thai Nguyen - into	2	x	14	Connecting 220 kV side of 500 kV

	Tuyen Quang (Electrical Substation) - Phu Binh				Thai Nguyen Electrical Substation
116	Dai Tu - into Tuyen Quang - 500 kV Thai Nguyen	4	x	2	Connecting 220 kV Dai Tu Electrical Substation
117	Connecting 500 kV Yen The	4	x	4	New construction
118	Hiep Hoa 2 - into 500 kV Hiep Hoa - Phu Binh 2	4	x	5	Connecting 220 kV Hiep Hoa 2 Electrical Substation
119	Increase of load capacity of Hiep Hoa - Phu Binh	1	x	11	Increase of load capacity of ACSR410 circuit
120	Increase load capacity of Thai Nguyen - Luu Xa - Phu Binh	1	x	30	Renovation
121	Song Cong - into Tuyen Quang - Phu Binh	2	x	1	Connecting 220 kV Song Cong Electrical Substation
122	Tan Yen - into Yen The - Viet Yen	4	x	5	Connecting 220 kV Tan Yen Electrical Substation
123	500 kV Yen The - Viet Yen	2	x	25	Connecting 220 kV Viet Yen Electrical Substation
124	500 kV Viet Tri - Ba Thien (500 kV Vinh Yen)	2	x	50	New construction
125	Phu Tho 2 - into Son La - Viet Tri	2	x	1	Connecting 220 kV Phu Tho 2 Electrical Substation
126	Increase of load capacity of 500 kV Viet Tri - Viet Tri	2	x	10	Renovation
127	Increase of load capacity of 500 kV Viet Tri - Vinh Tuong	1	x	27	Renovation
128	Increase of load capacity of 500 kV Viet Tri - Vinh Yen	1	x	36	Renovation
129	Phu Tho 3 - into Nghia Lo - 500 kV Viet Tri	4	x	22	Connecting 220 kV Phu Tho 3 Electrical Substation
130	Ba Thien (500 kV Vinh Yen) - into Vinh Yen - Soc Son	2	x	13	Connecting 220 kV Ba Thien Electrical Substation. Renovated and increasing load capability of existing segments from 220 kV Vinh Yen to connection point.
131	Chan Hung - into 500 kV Viet Tri - 220 kV Vinh Yen	2	x	2	Connecting 220 kV Chan Hung Electrical Substation

132	Phuc Yen - into 500 kV Vinh Yen - 220 kV Vinh Yen	2	x	1	New construction
133	Tam Duong - into 500 kV Viet Tri - Ba Thien (500 kV Vinh Yen)	4	x	4	Connecting 220 kV Tam Duong Electrical Substation
134	Vinh Tuong - Vinh Yen	2	x	17	New construction, renovation, conversion to double-circuit Vinh Tuong - Vinh Yen transmission line
135	500 kV Vinh Yen - Me Linh	2	x	28	Replacement for 220 kV Me Linh - Ba Thien transmission line under the VII Electricity Planning Amendment. 220 kV Ba Thien Electrical Substation connected in 500 kV Vinh Yen Electrical Substation.
136	Circuit 2 of Pha Lai Thermal Power - Bac Giang	2	x	27	Renovation from single circuit to double circuit
137	Bac Giang 1 - Lang Son 1 (*)	2	x	35	Synchronization depending on scale and progress of electricity sources in the area
138	500 kV Bac Giang - into An Khanh Thermal Bac Giang Power - Lang Son	4	x	8	Connecting 220 kV side of 500 kV Bac Giang Electrical Substation
139	Connecting An Khanh Bac Giang Thermal Power Plant	4	x	14	Synchronized with An Khanh Bac Giang Thermal Power Plant, connecting 220 kV Bac Giang - Lang Son transmission line
140	Dong Mo - Son Dong	2	x	60	New construction
141	Lang Giang - into Bac Giang - Thai Nguyen	2	x	1	Connecting 220 kV Lang Giang Electrical Substation
142	Yen Dung - into Pha Lai Thermal Power - Quang Chau	2	x	1	Connecting 220 kV Yen Dung Electrical Substation
143	Bac Ninh 4 - Dong Anh	2	x	14	Connecting 220 kV Bac Ninh 4 Electrical Substation
144	Bac Ninh 5 - into 500 kV Bac Ninh - Pho Noi	2	x	7	Connecting 220 kV Bac Ninh 5 Electrical Substation
145	500 kV Bac Ninh - Bac Ninh	2	x	10	Synchronized with combination of

					220 kV Pha Lai - Bac Ninh and Bac Ninh - Quang Chau transmission lines into Pha Lai - Quang Chau to limit short circuit
146	500 kV Bac Ninh - Bac Ninh 4	2	x	14	New construction
147	500 kV Bac Ninh - into Bac Ninh 2 - Pho Noi	4	x	3	Connecting 220 kV side of 500 kV Bac Ninh
148	Bac Ninh 6 - into Pha Lai - 500 kV Pho Noi	2	x	3	Connecting 220 kV Bac Ninh 6 Electrical Substation, considered for use of four-circuit poles with two circuits installed in advance
149	Bac Ninh 7 - into 500 kV Dong Anh - Bac Ninh 4	4	x	2	New construction
150	Cong Hoa - into Cam Pha - Hai Ha	4	x	2	New construction
151	Border of Viet Nam - China - Mong Cai	2	x	15	New construction, for increased electricity purchase from China
152	Hai Ha - Mong Cai	2	x	40	New construction
153	Hai Ha - Hai Ha 2	2	x	10	New construction, replacement of Hai Ha Industrial Park - Hai Ha under the VIII Electricity Planning
154	Khe Than - into Trang Bach - Hoanh Bo	2	x	2	Connecting 220 kV Khe Than Electrical Substation
155	Increasing load capability of Quang Ninh - Hoanh Bo	2	x	20	Renovation
156	Quang Ninh 1 - into Hoanh Bo - Son Dong Thermal Power and Hoanh Bo - Trang Bach (*)	4	x	5	Synchronized depending on scale and progress of electricity sources in the area
157	Yen Hung - Nam Hoa	2	x	29	Connecting 220 kV Nam Hoa Electrical Substation
158	Quang Ninh 2 Renewable Energy - Cong Hoa (*)	2	x	16	New construction
159	500 kV Quang Ninh 2 - into Yen Hung - Nam Hoa	4	x	15	New construction
160	500 kV Quang Ninh 2 - into Hoanh Bo - Trang Bach	2	x	5	New construction

161	Pac Ma - Muong Te	2	x	31	Accommodating hydroelectricity production
162	500 kV Lai Chau - Phong Tho	2	x	60	Accommodating hydroelectricity production, reducing load of 500 kV Lai Chau Electrical Substation, large cross section bundled conductor
163	Muong Te - Sin Ho	2	x	35	Small-scale hydroelectricity production in Muong Te
164	Nam Ou 7 - Lai Chau	2	x	65	Connecting Nam Ou 5, 6, 7 (Laos) Hydroelectricity. Whole line of 2x97 km, of which, 2x65 km in Vietnamese territory. Synchronized with hydroelectricity sources from Laos.
165	Phong Tho - Than Uyen	2	x	88	Accommodating small-scale hydroelectricity
166	Sin Ho - into 500 kV Lai Chau - Phong Tho	4	x	5	Connecting 220 kV Sin Ho Electrical Substation, accommodating local electrical production
167	Lai Chau 1 Renewable Energy - Than Uyen (*)	2	x	10	New construction
168	Lai Chau 2 Renewable Energy - Than Uyen (*)	2	x	10	New construction
169	500 kV Than Uyen - Than Uyen	2	x	10	New construction, transition to Phong Tho - Than Uyen
170	500 kV Than Uyen - into Ban Chat Hydroelectricity - Than Uyen	4	x	5	New construction
171	500 kV Son La - Dien Bien	2	x	133	Connecting 220 kV Dien Bien Electrical Substation
172	Dien Bien 1 - Dien Bien (*)	2	x	23	Synchronized depending on scale and progress of electricity sources in the area
173	Dien Bien 1 - Lai Chau (*)	2	x	52	Synchronized depending on scale and progress of electricity sources in the area

174	Nam Ou 5 - Dien Bien	2	x	22	Connecting Nam Ou 5, 6, 7 (Laos) Hydroelectricity. Whole line of 2x73 km, of which, 2x22 km in Vietnamese territory. Synchronized with hydroelectricity from Laos.
175	Dien Bien 2 - 500 kV Dien Bien (*)	2	x	18	New construction
176	500 kV Dien Bien - into Dien Bien 1 - Dien Bien (*)	4	x	5	New construction
177	Moc Chau - into Trung Son Hydroelectricity	2	x	35	Connecting 220 kV Moc Chau Electrical Substation
178	Increase of load capacity of 500 kV Son La - Muong La	1	x	21	Synchronized depending on scale and progress of electricity sources in the area
179	Increase of load capacity of 500 kV Son La - Son La	1	x	41	Synchronized depending on scale and progress of electricity sources in the area
180	Increase of load capacity of Huoi Quang - Son La	2	x	20	New construction
181	Phu Yen - into Son La - Viet Tri	2	x	7	Connecting 220 kV Phu Yen Electrical Substation (serving dedicated load)
182	Son La 1 - into Son La - Suoi Sap 2A (*)	2	x	5	Synchronized depending on scale and progress of electricity sources in the area
183	Song Ma - 500 kV Son La (*)	2	x	83	Accommodating small-scale hydroelectricity
184	Son La 2 - Son La (*)	2	x	35	New construction
185	Son La 3 - 500 kV Son La 1 (*)	2	x	20	New construction
186	Son La 4 - 500 kV Son La 1 (*)	2	x	20	New construction
187	Son La 5 - 500 kV Son La 1 (*)	2	x	20	New construction
188	Son La 6 - into Huoi Quang - Nghia Lo (*)	2	x	20	New construction
189	Connected to Tan Lac	6	x	5	Tan Lac - into Hoa Binh - Yen

					Thuy and connecting Trung Son Hydroelectricity, establishing double-circuit 220 kV transmission lines of Hoa Binh - Tan Lac, Tan Lac - Yen Thuy and Tan Lac - Trung Son Hydroelectricity - Hoi Xuan Hydroelectricity
190	500 kV Thanh Hoa - Sam Son	2	x	36	Connecting 220 kV Sam Son Electrical Substation
191	500 kV Thanh Hoa - Hau Loc	2	x	35	Connecting 220 kV Hau Loc Electrical Substation
192	Dong Vang - into Nghi Son Thermal Power - Nong Cong	4	x	4	Synchronized with load development rate
193	Circuit 3 of Thanh Hoa - Nghi Son - Quynh Luu	1	x	83	Installation of circuit 2
194	Increase of load capacity of Nong Cong - 500 kV Thanh Hoa	2	x	26	Renovation when changing Nghi Son 2 Thermal Power to 220 kV grid.
195	Nghi Son Thermal Power - into Nong Cong - Quynh Luu	2	x	10	Transition Nong Cong - Nghi Son and Nghi Son - Quynh Luu into Nong Cong - Quynh Luu. Replacing 220 kV Nghi Son Thermal Power - Nghi Son - Vinh transmission line
196	Nghi Son 2 - into Nghi Son Thermal Power - Nong Cong	4	x	2	Connecting 220 kV Nghi Son 2 Electrical Substation, synchronized with development pace of dedicated load
197	Nong Cong - Nghi Son - transition to Nghi Son Thermal Power	2	x	42	Phase 2 of Nghi Son Thermal Power - Nong Cong - Quynh Luu transmission line, restore current conditions of 220 kV Nong Cong - Quynh Luu transmission line
198	Nam Sum Hydroelectricity (Laos) - Nong Cong	2	x	129	Other name of 220 kV transmission line of “220 kV Nam Sum Switching Station - Nong Cong (section in Vietnamese Territory)”, approved under Document No. 1889/TTg-CN dated December 27, 2018 of the Prime Minister. Synchronized with

					Nam Sum Hydroelectricity of Laos
199	Thanh Hoa 1 - into Nghi Son - Nong Cong (*)	4	x	2	Synchronized depending on scale and progress of electricity sources in the area
200	500 kV Thanh Hoa - Bim Son	2	x	36	Renovation from single circuit to double circuit for 220 kV Ba Che - Bim Son transmission line
201	Thieu Hoa - 500 kV Thanh Hoa	2	x	5	Connecting 220 kV Thieu Hoa Electrical Substation
202	Transmission line connecting 220 kV electrical substation of Nghi Son Petroleum and Refinery	2	x	10	New construction
203	Thieu Hoa - Thieu Yen	2	x	25	Connecting 220 kV Thieu Yen Electrical Substation
204	Hoi Xuan Hydroelectricity - into Trung Son - Nho Quan	2	x	16	New construction
205	Hoi Xuan Hydroelectricity - Ba Thuoc	2	x	30	Connecting 220 kV Ba Thuoc Electrical Substation
206	Tinh Gia - into Nong Cong - Nghi Son	2	x	8	Connecting 220 kV Tinh Gia Electrical Substation
207	Nghe An 1 Renewable Energy - Nam Cam (*)	2	x	20	New construction
208	Nghe An 2 Renewable Energy - Quy Hop (*)	2	x	20	New construction
209	Truong Son Wind Power - Do Luong (*)	2	x	40	New construction
210	Do Luong - Nam Cam	2	x	36	Accommodating Laotian Hydroelectricity and hydroelectricity to the west of Nghe An
211	Tuong Duong - Do Luong	2	x	81	Synchronized with Nam Mo Hydroelectricity complex (Laos)
212	500 kV Quynh Luu into Nghi Son - Quynh Luu	4	x	10	Connecting 220 kV side of 500 kV Quynh Luu
213	Hoang Mai - 500 kV Quynh Luu	2	x	10	New construction

214	Hoang Mai - into Nghi Son - Hung Dong	2	x	10	New construction
215	Hoang Mai 2 - into 500 kV Quynh Luu - Hoang Mai	2	x	5	New construction
216	My Ly - Ban Ve	2	x	72	Synchronized with My Ly Hydroelectricity
217	Increase of load capacity of Hung Dong - Quynh Luu and Hung Dong - Nghi Son	2	x	100	Renovation, increase of load capacity of two circuits of 220 kV Hung Dong - Nghi Son transmission line and Hung Dong - Quynh Luu transmission line or consideration for renovation of Hung Dong - Nghi Son transmission line to double circuit from single circuit if expansion of feeder bay at Nghi Son Electrical Substation and Hung Dong Electrical Substation is feasible Accommodating Laotian Hydroelectricity and hydroelectricity to the west of Nghe An
218	Quy Hop - 500 kV Quynh Luu	2	x	5	Connecting 220 kV Quy Hop Electrical Substation, accommodating small-scale hydroelectricity.
219	Nam Mo 1 Hydroelectricity - into My Ly - Ban Ve	2	x	18	Synchronized with Nam Mo 1 Hydroelectricity (Vietnam)
220	Tuong Duong - Quy Hop	2	x	80	Accommodating small-scale hydroelectricity, and increase of electricity import from Laos
221	Vung Ang 2 - into Vung Ang - 500 kV Vung Ang Thermal Power	2	x	2	Connecting 220 kV Vung Ang 2 Electrical Substation, synchronized with development pace of dedicated load
222	Vung Ang - 500 kV Vung Ang Thermal Power	2	x	13	Connecting 220 kV Vung Ang Electrical Substation
223	Can Loc - into Ha Tinh - Hung Dong	4	x	2	Connecting 220 kV Can Loc Electrical Substation
224	Ha Tinh 1 - into Vung Ang -	4	x	4	Synchronized depending on scale

	Ha Tinh (*)				and progress of electricity sources in the area
225	Increase of load capacity of Ha Tinh - Hung Dong	2	x	66	Preventing overload during dry season. Increase of load capacity on two circuits of existing transmission line
226	Ha Tinh 2 Renewable Energy - 500 kV Ha Tinh 2 (*)	2	x	20	New construction
227	Ha Tinh 3 Renewable Energy - 500 kV Ha Tinh 2 (*)	2	x	20	New construction
228	Ha Tinh 4 Renewable Energy - 500 kV Ha Tinh 2 (*)	2	x	20	New construction
229	Ha Tinh 5 Renewable Energy - 500 kV Ha Tinh 2 (*)	2	x	20	New construction
230	Extended Ban Chat Hydroelectricity - into Ban Chat - Than Uyen	2	x	1	New construction, synchronized with electricity sources. Plans proposed under Document No. 862/EVN-KH of EVN dated February 11, 2025. Specific connection plans will be made accurate during project implementation.
231	Extended Tuyen Quang Hydroelectricity - Tuyen Quang Hydroelectricity	1	x	1	New construction, synchronized with electricity sources. Plans proposed under Document No. 862/EVN-KH of EVN dated February 11, 2025. Specific connection plans will be made accurate during project implementation.
232	Song Lo 9 Hydroelectricity - into Tuyen Quang - Phu Binh	2	x	2	Synchronized with Song Lo 9 Hydroelectricity Plant
233	Tuyen Quang Hydroelectricity - into Ha Giang - Thai Nguyen and Bac Me Hydroelectricity - Thai Nguyen	4	x	1	New construction, synchronized with Extended Tuyen Quang Hydroelectricity
234	Estimation of electrical production from renewable energy			800	New construction
235	Reservation for construction			314	New construction

	or renovation of 220 kV transmission line				
II	**2031 - 2035 period**				
1	500 kV Dan Phuong - Phuc Tho	2	x	13	New construction
2	Dong Anh 2 - into Van Tri - Tay Ho and Van Tri - Chem	4	x	2	New construction
3	Dong Anh 3 - into Van Tri - Dong Anh 500 kV	4	x	2	New construction
4	500 kV Son Tay - Phuc Tho	2	x	6	New construction
5	Thanh Oai - into Ung Hoa - Ha Dong	2	x	5	New construction, connecting 220 kV Thanh Oai Electrical Substation
6	Thanh Tri - into Thuong Tin - Mai Dong	2	x	5	New construction, connecting 220 kV Thanh Tri
7	Van Tri 500 kV - into Van Tri - Dong Anh 2	4	x	10	New construction
8	500 kV Van Tri - Van Tri 2	2	x	10	New construction
9	Connecting Thuan My Hydroelectricity	2	x	10	New construction, synchronized with electricity sources. Specific connection plans will be made accurate during project implementation.
10	Dinh Vu 2 - BB2	2	x	5	New construction
11	BB 2 - Cat Hai (*)	2	x	5	New construction, synchronization in accordance with scale and progress of off-shore wind power sources in the Northern Region. Detail plans and workload will be made accurate during project implementation on the basis of actual ocean survey results.
12	500 kV Hai Phong 2 - Hai Phong 2	2	x	5	New construction
13	500 kV Gia Loc - Gia Loc - transition to Gia Loc - Tan Viet	2	x	10	New construction
14	Yen My - into 500 kV Hung Yen 1 - Van Giang (circuit 2)	2	x	2	New construction

15	500 kV Ha Nam - Dong Van	4	x	12	New construction, connecting 500 kV Ha Nam
16	500 kV Ha Nam - into Thanh Nghi - Ly Nhan	4	x	4	New construction, connecting 500 kV Ha Nam
17	Kim Bang - into Dong Van - Phu Ly	4	x	4	New construction
18	500 kV Nam Dinh 2 - into Ninh Binh - Thai Binh	2	x	5	New construction
19	Tien Hai - into Thai Binh - Truc Ninh	2	x	2	New construction
20	Trieu Yen - Ba Thuoc	2	x	65	New construction
21	Ha Giang 2 - 500 kV Ha Giang	2	x	10	New construction
22	500 kV Ha Giang - into Ha Giang - Bac Me Hydroelectricity and Ha Giang - Thai Nguyen	4	x	10	New construction
23	Quang Uyen - into Cao Bang - Lang Son	4	x	5	New construction
24	Lao Cai 2 - into 220 kV Lao Cai - China	2	x	2	New construction
25	Lao Cai 3 Renewable Energy - 500 kV Lao Cai (*)	2	x	20	New construction
26	500 kV Lang Son 2 - into Lang Son - Dong Mo	4	x	10	New construction
27	Son Duong - into Tuyen Quang - Dai Tu	2	x	2	New construction
28	500 kV Thai Nguyen 2 - Phu Binh	2	x	10	Connecting 220 kV Phu Binh 3 Electrical Substation
29	Phu Luong - into Thai Nguyen - Bac Me Hydroelectricity	2	x	2	New construction
30	Phuc Xuan - into 500 kV Thai Nguyen - Thai Nguyen	2	x	5	New construction
31	500 kV Thai Nguyen 2 - Phu Binh 2	2	x	15	New construction
32	500 kV Thai Nguyen 2 -	2	x	8	New construction

	Song Cong				
33	Phu Tho 3 - Viet Tri 2	2	x	22	New construction, connecting 220 kV Viet Tri 2 Electrical Substation
34	Phu Tho 500 kV - into Phu Yen - Phu Tho 2	2	x	20	New construction
35	500 kV Phu Tho - Viet Tri 2	2	x	20	New construction
36	500 kV Vinh Tuong - into Vinh Tuong - Vinh Yen	4	x	8	New construction
37	500 kV Vinh Tuong - Vinh Tuong	2	x	8	New construction, conversion to 500 kV Vinh Tuong - Chan Hung
38	500 kV Bac Giang - Chu	2	x	32	New construction
39	Chu - into Son Dong - Dong Mo	4	x	2	New construction
40	500 kV Bac Ninh 2 - into Bac Ninh 4 - Bac Ninh 7	4	x	5	New construction
41	500 kV Bac Ninh 3 - Bac Ninh 10	2	x	12	New construction
42	500 kV Bac Ninh 3 - Bac Ninh 9	4	x	2	New construction
43	Bac Ninh 6 - into Pha Lai - 500 kV Pho Noi (circuit 2)	2	x	3	New construction
44	Cong Hoa - Van Don	2	x	16	New construction, connecting 220 kV Van Don Electrical Substation
45	Lai Chau 3 Renewable Energy - 500 kV Lai Chau 1 Renewable Energy (*)	2	x	10	New construction
46	Lai Chau 4 Renewable Energy - 500 kV Lai Chau 1 Renewable Energy (*)	2	x	10	New construction
47	Hoa Binh 1 - Yen Thuy (*)	2	x	18	New construction
48	500 kV Nam Ha Noi - Luong Son	2	x	18	New construction
49	Extended Trung Son Hydroelectricity - Trung Son Hydroelectricity	1	x	1	New construction, synchronized with electricity sources. Plans proposed under Document No. 862/EVN-KH of EVN dated February 11, 2025. Specific connection plans will be made

					accurate during project implementation.
50	500 kV Tinh Gia - transition to 220 kV Tinh Gia	2	x	4	New construction
51	500 kV Tinh Gia - into Nong Cong - Nghi Son	4	x	4	New construction
52	Connecting 500 kV Nam Cam	4	x	5	Consideration for connection to 220 kV Nam Cam Electrical Substation
53	Hung Nguyen - into Do Luong - Nam Cam	4	x	5	New construction, connecting 220 kV Hung Nguyen Electrical Substation
54	500 kV Nam Cam - Cua Lo	2	x	11	New construction
55	Extended Ban Ve Hydroelectricity - Ban Ve Hydroelectricity	1	x	1	New construction, synchronized with Extended Ban Ve Hydroelectricity
56	Loc Ha - into Ha Tinh - Can Loc	4	x	7	New construction
57	Extended Huoi Quang Hydroelectricity - Huoi Quang Hydroelectricity	2	x	1	New construction, synchronized with electricity sources. Plans proposed under Document No. 15/SCT-QLNL of Department of Industry and Trade of Tuyen Quang Province dated January 3, 2025.
58	Extended Huoi Quang Hydroelectricity - into Ban Chat - Than Uyen	2	x	1	New construction, synchronized with electricity sources. Plans proposed under Document No. 15/SCT-QLNL of Department of Industry and Trade of Tuyen Quang Province dated January 3, 2025
59	Reservation for construction or renovation of 220 kV transmission line			320	New construction and renovation

Schedule 7: List of 500 kV electrical substations for construction and renovation in the Central Region

No.	Name of electrical substation	Capacity (MVA)	Note
I	**2025 - 2030 period**		

1	Quang Binh (*)	2700	New construction, accommodating renewable energy
2	Lao Bao (Huong Hoa)	2700	New construction, accommodating renewable energy
3	Quang Tri 2 Switching Station	Switching station	New construction
4	Quang Tri	1800	New construction
5	Da Nang	1800	Renovation, capacity increase
6	Thanh My	2700	Renovation, capacity increase, synchronized with development of electricity sources
7	Dung Quat	900	New construction, referred to under list of 500 kV and 220 kV transmission lines of 500 kV Dung Quat Electrical Substation as Dung Quat Combined Cycle Power Plant
8	Binh Dinh	1800	New construction
9	Kon Tum	1800	New construction, installation of transformers at 500 kV Kon Tum Switching Station under the VIII Electricity Planning, accommodating renewable energy
10	Pleiku 2	1800	Renovation, capacity increase
11	Pleiku 3	1800	Renovation, capacity increase
12	Nhon Hoa	1800	New construction
13	Krong Buk	1800	New construction
14	Ea Nam (*)	1800	Renovation, increase of capacity, accommodating renewable energy
15	Kon Ray (*)	1800	New construction, accommodating renewable energy
16	Dak Lak 1 Renewable Energy (*)	2700	New construction, accommodating renewable energy
17	Tuy Hoa	1800	New construction
18	Phu Yen 1 Renewable Energy (*)	1800	New construction, accommodating renewable energy
19	Reservation of transformer capacity for load development and electricity source	1800	New construction, renovation, and capacity increase

	development		
20	Constructions and projects improving control and operation capability of electrical substations and electrical system		Including but are not limited to projects that: Replace, install reactors, SVC, SVG, FACTS equipment, etc.; expand feeder bay in substations, renovate, improve graphs of substations; install short circuit protection devices, replace and upgrade devices to resist short-circuited current, establish automatic circuit; install, replace equipment, control system, SCADA/ EMS, SCADA/DMS systems, automate the station, etc.,
II	**2031 - 2035 period**		
1	Doc Soi	1800	Renovation, capacity increase
2	Dung Quat	1800	Renovation, increase of capacity, referred to under list of 500 kV and 220 kV transmission lines of 500 kV Dung Quat Electrical Substation as Dung Quat Combined Cycle Power Plant
3	Pleiku	2700	Renovation, capacity increase
4	Ea Sup Solar Power	1800	Renovation, capacity increase
5	Huong Thuy	1800	New construction
6	Hoa Lien	900	New construction
7	Mang Yang (*)	1800	New construction, accommodating renewable energy
8	Ia Blu 500 kV (*)	900	New construction, accommodating renewable energy
9	Dak Lak 1 Renewable Energy (*)	3600	Renovation, increase of capacity, accommodating renewable energy
10	Dak Nong 2 (*)	1800	New construction, supplying electricity for aluminum production (according to proposition under Document No. 167 UBND-KT dated January 8, 2025 of the People's Committee of Dak Nong Province) and gather renewable energy production

11	Dien Khanh	900	New construction
12	Quang Tri Renewable Energy (*)	1800	New construction, accommodating renewable energy
13	Phong Dien	900	New construction, consideration for connection to 220 kV Phong Dien Electrical Substation, accommodating renewable energy production
14	Dak Lak 2 Renewable Energy (*)	3600	New construction, accommodating renewable energy
15	Reservation of transformer capacity for load development and electricity source development	3600	New construction, renovation, and capacity increase
16	Constructions and projects improving control and operation capability of electrical substations and electrical system		Including but are not limited to projects that: Replace, install reactors, SVC, SVG, FACTS equipment, etc.; expand feeder bay in substations, renovate, improve graphs of substations; install short circuit protection devices, replace and upgrade devices to resist short-circuited current, establish automatic circuit; install, replace equipment, control system, SCADA/ EMS, SCADA/DMS systems, automate the station, etc.,

Schedule 8: List of 500 kV transmission lines for construction and renovation in the Central Region

No.	Name of transmission line	Circuit	x	km	Note
	2025 - 2030 period				
1	Quang Binh - into Vung Ang - Quang Tri (*)	4	x	5	New construction, connecting 500 kV Quang Binh Electrical Substation
2	Quang Tri Thermal Power Plant - Quang Tri	2	x	17	New construction, in case Quang Tri Thermal Power is allowed for continuation
3	Quang Tri - into Vung Ang - Da Nang	4	x	6	New construction, connecting 500 kV Quang Tri Electrical

					Substation
4	Quang Tri 2 Switching Station - into Quang Trach - Doc Soi	4	x	5	New construction
5	Lao Bao (Huong Hoa) - Quang Tri 2 Switching Station	2	x	31	New construction
6	Xebanghieng Power Complex (Laos) - Lao Bao (*)	2	x	20	New construction, import of electricity from Laos
7	Hai Lang LNG - Quang Tri Thermal Power Plant	2	x	6	New construction, synchronized with Phase 1 Hai Lang LNG, in case Quang Tri Thermal Power Plant is behind on schedule, construction of approximately 23 km long Hai Lang - Quang Tri transmission line in advance connecting Phase 1 Hai Lang LNG and Quang Tri Thermal Power Plant and transition to LNG Hai Lang - Quang Tri transmission line (two circuits)
8	Connecting Trung Trung Bo 1 Pumped-Storage Hydroelectricity (*)	2	x	30	New construction, detail connection plans, line length, cross section, and direction will be made accurate during project implementation
9	Connecting Trung Trung Bo 2 Pumped-Storage Hydroelectricity (*)	2	x	30	New construction, detail connection plans, line length, cross section, and direction will be made accurate during project implementation
10	Thanh My - into Quang Trach - Doc Soi	4	x	45	New construction
11	Monsoon - Thanh My	2	x	22	New construction, energized in January, 2025
12	Dung Quat Combined Cycle Power Plant - Doc Soi	2	x	8	New construction
13	Central Region Combined Cycle Power Plant - Doc Soi	2	x	20	New construction
14	Dung Quat Combined Cycle Power Plant - Binh Dinh	2	x	207	New construction
15	Kon Ray - into Doc Soi -	4	x	5	New construction, connecting

	Pleiku 2 (*)				500 kV Kon Ray Electrical Substation
16	Hatsan - Kon Tum (*)	2	x	100	New construction, import of electricity from Laos
17	Kon Tum - into Thanh My - Pleiku 2	4	x	5	New construction, connecting 500 kV Kon Tum Electrical Substation
18	Expanded Yaly Hydroelectricity - Yaly Hydroelectricity	1	x	2	New construction
19	Nhon Hoa - into Pleiku - Dak Nong	2	x	4	New construction
20	Dak Lak 1 Renewable Energy - Krong Buk (*)	4	x	20	New construction
21	Krong Buk - Tay Ninh 1	2	x	314	New construction
22	Krong Buk - into Pleiku 2 - Chon Thanh	4	x	2	New construction, connecting 500 kV Krong Buk Electrical Substation
23	Van Phong - Binh Dinh	2	x	238	New construction
24	Binh Dinh - Krong Buk	2	x	216	New construction
25	Phu Yen 1 Renewable Energy - Tuy Hoa (*)	2	x	30	New construction
26	Tuy Hoa - into Van Phong - Binh Dinh	4	x	5	New construction, connecting 500 kV Tuy Hoa Electrical Substation
27	Estimated connection load and uncurtailed output of renewable energy sources			200	New construction, renovation
28	Reservation for construction or renovation of 500 kV transmission line			200	New construction, renovation
	2031 - 2035 period				
1	Quang Tri Renewable Energy - Quang Tri 2 Switching Station (*)	2	x	31	New construction
2	Connecting Trung Trung Bo 1 HVDC converter station (*)	6	x	20	New construction, detail connection plans, line length, cross section, and direction will

					be made accurate during project implementation
3	Renovation of Da Nang - Doc Soi into double circuit	2	x	100	Renovation
4	Huong Thuy - into Quang tri - Da Nang	4	x	5	New construction, connecting 500 kV Huong Thuy Substation
5	Phong Dien - into Hoa Lien - Quang Tri 2 Switching Station	4	x	10	New construction
6	Hoa Lien - into Quang Tri 2 Switching Station - Thanh My	4	x	5	New construction, connecting 500 kV Hoa Lien Electrical Substation
7	Connecting Trung Trung Bo 3 Pumped-Storage Hydroelectricity (*)	2	x	30	New construction, detail connection plans, line length, cross section, and direction will be made accurate during project implementation
8	Connecting Trung Trung Bo 2 HVDC converter station (*)	4	x	20	New construction, detail connection plans, line length, cross section, and direction will be made accurate during project implementation
9	Connecting Trung Trung Bo 4 Pumped-Storage Hydroelectricity (*)	2	x	30	New construction, detail connection plans, line length, cross section, and direction will be made accurate during project implementation
10	Mang Yang - into Dung Quat Gas Turbine - Krong Buk (*)	4	x	5	New construction
11	Dak Lak 1 Renewable Energy - Trung Trung Bo 2 HVDC (*)	2	x	350	New construction in case of high development level of renewable energy sources of the west of Northern Region, on the basis of renewable energy resources allocated to local governments under Document No. 1649/BCT-DL of the Ministry of Industry and Trade dated March 5, 2025.
12	Ia Blue - into Pleiku 2 - Kuon Buk	2	x	4	New construction
13	Dak Lak 2 Renewable Renewable energy - into	4	x	30	New construction

	Krong Buk - Chon Thanh (*)				
14	Dak Nong 2 - into Krong Buk - Tay Ninh (*)	2	x	30	New construction, connecting 500 kV Dak Nong 2 Electrical Substation
15	Renovating Dak Nong - Cau Bong to double-circuit from single-circuit	2	x	180	New construction in case of high development level of renewable energy sources of the Central Region, on the basis of renewable energy resources allocated to local governments under Document No. 1649/BCT-DL of the Ministry of Industry and Trade dated March 5, 2025.
16	Dien Khanh - into Van Phong 1 Thermal Power - Thuan Nam	4	x	5	New construction
17	Renovating Thanh My - Pleiku 2 into double circuit	2	x	199	New construction
18	Estimated connection load and uncurtailed output of renewable energy sources			200	New construction, renovation
19	Reservation for construction or renovation of 500 kV transmission line			200	New construction, renovation

Schedule 9: List of 220 kV electrical substations for construction and renovation in the Central Region

No.	Name of electrical substation	Capacity (MVA)	Note
I	**2025 - 2030 period**		
1	Dong Hoi	375	Renovation, capacity increase
2	Ba Don	500	Renovation, capacity increase
3	Le Thuy (*)	750	New construction, accommodating renewable energy
4	Lao Bao	750	Renovation, increase of capacity, accommodating renewable energy
5	Dong Ha	500	Renovation, capacity increase
6	Huong Linh	250	New construction
7	Huong Tan	500	Renovation, capacity increase

8	Dong Nam	250	New construction
9	Phong Dien	500	Renovation, capacity increase
10	Chan May	250	New construction
11	Huong Thuy	250	New construction
12	Lien Chieu	500	New construction
13	Da Nang Airport	250	New construction
14	Tien Sa	250	New construction
15	Tam Ky	500	Renovation, capacity increase
16	Thanh My	500	Renovation, capacity increase
17	Song Tranh 2	500	Renovation, capacity increase
18	Duy Xuyen	250	Renovation, capacity increase
19	Tam Hiep	250	New construction
20	Dien Ban	250	New construction
21	Nam Hoi An	250	New construction
22	Nuoc Long Hydroelectricity	275	Renovation, capacity increase
23	Dung Quat 2	500	New construction
24	Quang Ngai 2	250	New construction
25	Phuoc An	500	Renovation, capacity increase
26	Phu My	375	Renovation, capacity increase
27	Nhon Hoi	500	New construction
28	Phu My 2	500	New construction, supplying electricity for Phy Mu Industrial Park
29	Tuy Hoa	500	Renovation, capacity increase
30	Song Cau	250	New construction
31	Nam Phu Yen	750	New construction, supplying electricity for steel load
32	Van Phong	500	Renovation, capacity increase
33	Van Ninh	250	New construction
34	Cam Thinh	250	New construction
35	Bo Y	250	New construction
36	Pleiku	500	Renovation, capacity increase

37	Chu Se	500	Renovation, capacity increase
38	An Khe	500	Renovation, capacity increase
39	Associated 500 kV Pleiku 2	250	New construction
40	Krong Pa	250	New construction
41	Gia Lai 1 (*)	500	New construction, accommodating renewable energy
42	Krong Ana	375	Renovation, capacity increase
43	Associated 500 kV Krong Buk	500	New construction
44	Ea Kar	250	New construction
45	Dak Nong	500	Renovation, capacity increase
46	Dak Nong 2	500	New construction
47	Aluminum electrolysis	1184	New construction
48	Quang Binh 1 (*)	500	New construction
49	Quang Binh 2 (*)	500	New construction, accommodating uncurtailed output of renewable energy production
50	Quang Tri 1 (*)	250	New construction, accommodating uncurtailed output of renewable energy production
51	Quang Tri 2 (*)	500	New construction, accommodating uncurtailed output of renewable energy production
52	Quang Ngai 1 Renewable Energy (*)	500	New construction, accommodating uncurtailed output of renewable energy production
53	Kon Tum 1 (*)	750	New construction, accommodating uncurtailed output of renewable energy production
54	Kon Tum 2 (*)	750	New construction, accommodating uncurtailed output of renewable energy production
55	Kon Tum 3 (*)	750	New construction, accommodating uncurtailed output of renewable energy production
56	Mang Yang (*)	500	New construction, accommodating uncurtailed output of renewable

			energy production
57	Gia Lai 2 (*)	500	New construction, accommodating uncurtailed output of renewable energy production
58	Ea Hleo Renewable Energy (*)	500	New construction, accommodating uncurtailed output of renewable energy production
59	Ea Hleo	500	New construction
60	Dak Nong 3 (*)	500	New construction, accommodating uncurtailed output of renewable energy production
61	Hoai My	500	New construction, supplying electricity for Hoai My Industrial Park
62	Phu Yen 1 (*)	500	New construction, accommodating uncurtailed output of renewable energy production
63	Quang Binh 3 (*)	500	New construction, accommodating uncurtailed output of renewable energy production
64	Dak Lak 1 Renewable Energy (*)	500	New construction, accommodating uncurtailed output of renewable energy production
65	Dak Lak 2 Renewable Energy (*)	500	New construction, accommodating uncurtailed output of renewable energy production
66	Dak Lak 3 Renewable Energy (*)	500	New construction, accommodating uncurtailed output of renewable energy production
67	Dak Song	500	New construction, accommodating uncurtailed output of renewable energy production
68	Binh Dinh 1 (*)	500	New construction, accommodating uncurtailed output of renewable energy production
69	Phu Yen 2 (*)	500	New construction, accommodating uncurtailed output of renewable energy production
70	Phu Yen 3 (*)	500	New construction, accommodating

			uncurtailed output of renewable energy production
71	Reservation of capacity of 220 kV transformer for load development and electricity source development	1000	New construction, renovation, capacity increase
72	Constructions and projects improving control and operation capability of electrical substations and electrical system		Including but are not limited to projects that: Replace, install reactors, SVC, SVG, FACTS equipment, etc.; expand feeder bay in substations, renovate, improve graphs of substations; install short circuit protection devices, replace and upgrade devices to resist short-circuited current, establish automatic circuit; install, replace equipment, control system, SCADA/ EMS, SCADA/DMS systems, automate the station, etc. ,
II	**2031 - 2035 period**		
1	Dong Hoi	500	Renovation, capacity increase
2	Huong Linh	500	Renovation, capacity increase
3	Dong Nam	500	Renovation, capacity increase
4	Huong Thuy	500	Renovation, capacity increase
5	Hai Chau	500	Renovation, capacity increase
6	Da Nang Airport	500	Renovation, capacity increase
7	Duy Xuyen	375	Renovation, capacity increase
8	Tam Hiep	500	Renovation, capacity increase
9	Doc Soi	375	Renovation, capacity increase
10	Phu My	500	Renovation, capacity increase
11	Van Ninh	500	Renovation, capacity increase
12	Cam Thinh	500	Renovation, capacity increase
13	Bo Y	500	Renovation, capacity increase
14	Gia Lai 1 (*)	750	Renovation, capacity increase, accommodating renewable energy
15	Krong Ana	500	Renovation, capacity increase
16	Ea Kar	500	Renovation, capacity increase

17	Quang Tri 1 (*)	500	Renovation, capacity increase, accommodating renewable energy
18	Quang Tri 3 (*)	250	New construction, accommodating uncurtailed output of renewable energy production
19	Quang Tri 4 (*)	500	New construction, accommodating uncurtailed output of renewable energy production
20	Mang Yang (*)	750	Renovation, capacity increase, accommodating renewable energy
21	Gia Lai 2 (*)	750	Renovation, capacity increase, accommodating renewable energy
22	Trung Trung Bo Off-shore Wind Power	500	New construction
23	Hue 1 Renewable Energy (*)	500	New construction, accommodating uncurtailed output of renewable energy production
24	Hue 2 Renewable Energy (*)	500	New construction, accommodating uncurtailed output of renewable energy production
25	Kon Tum 4 (*)	500	New construction, accommodating uncurtailed output of renewable energy production
26	Kon Tum 5 (*)	500	New construction, accommodating uncurtailed output of renewable energy production
27	Gia Lai 3 (*)	500	New construction, accommodating uncurtailed output of renewable energy production
28	Gia Lai 4 (*)	500	New construction, accommodating uncurtailed output of renewable energy production
29	Dak Lak 1 Renewable Energy (*)	750	Renovation, capacity increase, accommodating renewable energy
30	Dak Lak 2 Renewable Energy (*)	750	Renovation, capacity increase, accommodating renewable energy
31	Dak Lak 3 Renewable Energy (*)	750	Renovation, capacity increase, accommodating renewable energy

32	Dak Lak 4 Renewable Energy (*)	750	New construction, accommodating uncurtailed output of renewable energy production
33	Dak Lak 5 Renewable Energy (*)	750	New construction, accommodating uncurtailed output of renewable energy production
34	Dak Lak 6 Renewable Energy (*)	750	New construction, accommodating uncurtailed output of renewable energy production
35	Dak Lak 7 Renewable Energy (*)	750	New construction, accommodating uncurtailed output of renewable energy production
36	Dak Nong 4 (*)	750	New construction, accommodating uncurtailed output of renewable energy production
37	Reservation of capacity of 220 kV transformer for load development and electricity source development	2000	New construction, renovation, capacity increase
38	Constructions and projects improving control and operation capability of electrical substations and electrical system		Including but are not limited to projects that: Replace, install reactors, SVC, SVG, FACTS equipment, etc.; expand feeder bay in substations, renovate, improve graphs of substations; install short circuit protection devices, replace and upgrade devices to resist short-circuited current, establish automatic circuit; install, replace equipment, control system, SCADA/ EMS, SCADA/DMS systems, automate the station, etc. ,

Schedule 10: List of 220 kV transmission lines for construction and renovation in the Central Region

No.	Name of transmission line	Circuit	x	km	Note
	2025 - 2030 period				
1	Ba Don - into Vung Ang - Dong Hoi	2	x	3	New construction, transition on circuit 2
2	Le Thuy - into Dong Hoi -	4	x	2	New construction, connecting

	Dong Ha				220 kV Le Thuy Electrical Substation
3	B&T1 Wind Power - into Dong Hoi - Dong Ha on circuit 2	4	x	10	New construction
4	500 kV Quang Binh - into Dong Hoi - Dong Ha	4	x	5	New construction, connecting 500 kV Quang Binh Electrical Substation
5	Increasing load capability of Dong Hoi - Dong Ha	2	x	108	Renovated
6	Quang Binh 1 - 500 kV Quang Binh (*)	2	x	21	New construction
7	Quang Binh 2 - 500 kV Quang Binh (*)	2	x	25	New construction
8	Quang Binh 3 - 500 kV Quang Binh (*)	2	x	25	New construction
9	500 kV Quang Tri Electrical Substation into Dong Ha - Hue and Dong Ha - Phong Dien	6	x	6	New construction, connecting 500 kV Quang Tri Electrical Substation
10	500 kV Quang Tri - Dong Nam	2	x	27	New construction, connecting 220 kV Dong Nam Electrical Substation
11	Circuit 3 of Dong Ha - Hue	1	x	78	Renovation, Dong Ha - 500 kV Quang Tri - Hue
12	Quang Tri 1 TNC Wind Power - Huong Tan	1	x	11	New construction, accommodating renewable electricity sources
13	Huong Linh - Lao Bao	1	x	12	New construction, accommodating renewable electricity sources
14	Huong Hoa 1 LIG Wind Power - Huong Tan	1	x	13	New construction, accommodating renewable electricity sources
15	Huong Hoa 2 LIG Wind Power - Huong Hoa 1 LIG	1	x	8	New construction, accommodating renewable electricity sources
16	Savan 1 Wind Power - Lao Bao	2	x	17	New construction. Once 500 kV Lao Bao Electrical Substation enters into

					operation, transition to 500 kV Lao Bao Electrical Substation (Huong Hoa)
17	500 kV Lao Bao (Huong Hoa) - into Lao Bao - Dong Ha	4	x	5	New construction, connecting 500 kV Lao Bao Electrical Substation (Huong Hoa)
18	500 kV Lao Bao (Huong Hoa) - into Tai Tam Wind Power - Lao Bao	2	x	5	New construction, connecting 500 kV Lao Bao Electrical Substation (Huong Hoa)
19	Quang tri 1 - 500 kV Quang Tri (*)	2	x	10	New construction
20	Quang Tri 2 - 500 kV Lao Bao (*)	2	x	10	New construction
21	Chan May - into Hoa Khanh - Hue	4	x	5	New construction, connecting 220 kV Chan May Electrical Substation
22	Phong Dien - into Dong Ha - Hue (circuit 2)	2	x	5	New construction
23	Huong Thuy - into Hue - Hoa Khanh	4	x	2	New construction, connecting 220 kV Huong Thuy Electrical Substation
24	Increase of load capacity of Hue - Hoa Khanh	2	x	82	Renovated
25	Increase of load capacity of Da Nang - Tam Ky - Doc Soi	2	x	100	Renovation
26	Lien Chieu - into Hoa Khanh - Hue	4	x	3	New construction, connecting 220 kV Lien Chieu Electrical Substation
27	Hai Chau - Ngu Hanh Son	2	x	11	New construction
28	Tien Sa - into Hai Chau - Ngu Hanh Son	2	x	3	New construction, connecting 220 kV Tien Sa Electrical Substation
29	Da Nang Airport - into Hoa Khanh - Da Nang	2	x	5	New construction, connecting 220 kV electrical substation of Da Nang Airport
30	Dien Ban - Nam Hoi An	2	x	24	New construction
31	Tam Hiep - into Tam Ky - Doc Soi	4	x	1	New construction, connecting 220 kV Tam Hiep Substation Electrical Substation

32	500 kV Da Nang - Dien Bien	2	x	12	New construction, connecting 220 kV Dien Ban Electrical Substation
33	Nam Emoun Hydroelectricity - Dak Ooc Switching Station	1	x	51	New construction
34	Increase of load capacity of Dak Ooc - Thanh My	2	x	31	Renovation, increase of electricity import from Laos
35	Thanh My - Duy Xuyen	2	x	69	New construction, 500 kV Thanh My Electrical Substation - Duy Xuyen
36	220 kV Dak Ooc Switching Station - Song Bung 2 Hydroelectricity	2	x	10	New construction, increase of electricity import from Laos
37	Phuoc An - into An Khe Hydroelectricity - Quy Nhon (circuit 1)	2	x	2	Renovation
38	Dung Quat Combined Cycle Power Plant - Dung Quat 2	2	x	6	New construction, connecting 220 kV Dung Quat 2 Electrical Substation
39	Dung Quat - Dung Quat 2	2	x	3	New construction
40	Increase of load capacity of Doc Soi - Dung Quat	2	x	8	Renovation, consideration for construction plan of Doc Soi - Dung Quat Combined Cycle Power Plant
41	Dung Quat Combined Cycle Power Plant - Doc Soi - Dung Quat	4	x	3	New construction, transition to 2x3 in case of construction of Doc Soi - Dung Quat Combined Cycle Power Plant
42	Quang Ngai 2 - into Doc Soi - Quang Ngai	4	x	2	New construction
43	Quang Ngai 1 Renewable Energy - into Quang Ngai - Phu My (*)	4	x	2	New construction
44	Increase of load capacity of Son Ha - Doc Soi	2	x	46	Renovation
45	Increase of load capacity of Quang Ngai - Doc Soi	2	x	60	Renovation
46	Replacement of bundled conductors of circuit 1 of	1	x	140	Renovation

	Quang Ngai - Quy Nhon (Phuoc An) transmission line				
47	220 kV Bo Y Switching Station - Bo Y	2	x	30	New construction
48	Bo Y - Kon Tum	2	x	51	New construction
49	Dak Mi 1 Hydroelectricity - Dak My 2 Hydroelectricity	1	x	15	New construction
50	Dak Lo 3 Hydroelectricity - into Upper Kon Tum - Quang Ngai	4	x	1	New construction
51	500 kV Kon Ray - into Upper Kon Tum - Kon Tum	4	x	5	New construction, connecting 500 kV Kon Ray Electrical Substation
52	Upper Kon Tum - Kon Tum	2	x	82	New construction
53	Increase of load capacity of Kon Tum - Pleiku	2	x	36	Renovation
54	500 kV Kon Tum - into Bo Y - Kon Tum (*)	4	x	5	New construction
55	Kon Tum 1 - 500 kV Kon Tum (*)	2	x	26	New construction
56	Kon Tum 2 - 500 kV Kon Ray (*)	2	x	30	New construction
57	Kon Tum 3 - 500 kV Kon Ray (*)	2	x	30	New construction
58	Son Ha - Thuong Kon Tum	2	x	35	New construction
59	Increase of load capacity of Pleiku - An Khe Biomass Power Plant - An Khe Hydroelectricity	1	x	98	Renovation
60	Chu Se - into Pleiku 2 - Krong Buk (circuit 2)	2	x	2	New construction
61	Circuit 2 of Pleiku 2 - Krong Buk	1	x	120	Renovation
62	Krong Pa - Chu Se	2	x	63	New construction
63	Ia Le 1 Wind Power - into Krong Buk - Pleiku (circuit 2)	2	x	6	New construction
64	Ia Boong Wind Power - Chu	1	x	8	New construction

	Prong - Nhon Hoa 1 Wind Power				
65	Mang Yang - into An Khe Hydroelectricity - Pleiku (*)	2	x	5	New construction
66	Gia Lai 1 - Pleiku 3 (*)	2	x	20	New construction
67	Gia Lai 2 - Nhon Hoa (*)	2	x	20	New construction
68	500 kV Krong Buk - Krong Buk	2	x	27	New construction
69	Circuit 2 of Krong Buk - Nha Trang	1	x	150	Renovation
70	Ea Kar - into Krong Buk - Nha Trang	4	x	2	New construction
71	Increase of load capacity of Srepok 3 Hydroelectricity - Buon Kuop	1	x	34	Renovation
72	Ea Hleo Renewable Energy - 500 kV Ea Nam (*)	1	x	12	New construction
73	Ea Hleo - into Krong Buk - Chu Se	4	x	5	New construction
74	Song Ba Ha Hydroelectricity - 500 kV Krong Buk	2	x	115	New construction
75	Krong Buk Wind Power - into Krong Buk - Pleiku 2 on circuit 2	2	x	1	New construction
76	Dak Lak 1 Renewable Energy - 500 kV Dak Lak 1 Renewable Energy (*)	2	x	20	New construction
77	Dak Lak 2 Renewable Energy - 500 kV Dak Lak 1 Renewable Energy (*)	2	x	20	New construction
78	Dak Lak 3 Renewable Energy - 500 kV Dak Lak 1 Renewable Energy (*)	2	x	20	New construction
79	Increase of load capacity of Buon Kuop - Buon Tua Shra - 500 kV Dak Nong	1	x	112	Renovation
80	Dak Nong 2 - into Buon Kuop - Buon Tua Srah	2	x	10	New construction

81	Dak Nong 3 - 500 kV Dak Nong	1	x	12	New construction
82	Dak Song - into Dak Nong - Buon Kuop	2	x	4	New construction
83	Increase of load capacity of Pleiku 2 - Phuoc An	1	x	98	New construction
84	Phuoc An - Nhon Hoi	2	x	22	New construction
85	500 kV Binh Dinh - into Phuoc An - Phu My	4	x	5	New construction
86	500 kV Binh Dinh - into An Khe - Quy Nhon and Pleiku 2 - Phuoc An	4	x	35	New construction
87	Phu My 2 - Phu My	2	x	20	New construction
88	Phu My - into Phuoc An - Quang Ngai (circuit 2)	2	x	2	Renovation
89	Hoai My - into Phu My - Quang Ngai	4	x	5	New construction
90	Binh Dinh 1 - 500 kV Binh Dinh (*)	2	x	20	New construction
91	Increase of load capacity of Tuy Hoa - Van Phong - Nha Trang	2	x	118	Renovation
92	Tuy Hoa - Phuoc An	2	x	93	New construction
93	HBRE An Tho - Tuy Hoa	1	x	16	New construction
94	Increase of load capacity of Tuy Hoa - Quy Nhon	1	x	90	Renovation
95	Connecting to 220 kV Song Cau Electrical Substation	4	x	5	New construction, phase 1: transition on existing 220 kV Tuy Hoa - Quy Nhon transmission line. Phase 2: Connecting 2 circuits of 220 kV Tuy Hoa - Phuoc An transmission line as soon as this line enters into operation
96	Nam Phu Yen - into Nha Trang - Tuy Hoa	4	x	4	New construction, supplying electricity for steel load
97	Phu Yen 1 - 500 kV Tuy Hoa (*)	2	x	21	New construction

98	500 kV Tuy Hoa - into Tuy Hoa - Phuoc An	4	x	5	New construction, connecting 500 kV Tuy Hoa Electrical Substation
99	Phu Yen 2 - 500 kV Phu Yen 1 Renewable Energy (*)	2	x	21	New construction
100	Phu Yen 3 - 500 kV Phu Yen 1 Renewable Energy (*)	2	x	21	New construction
101	Van Ninh - into Van Phong - Tuy Hoa	4	x	2	New construction
102	500 kV Van Phong - into Tuy Hoa - 220 kV Van Phong (circuit 2)	2	x	26	New construction
103	Cam Thinh - into Cam Ranh - Thap Cham	4	x	3	New construction
104	500 kV Van Phong - 220 kV Van Phong	2	x	20	New construction
105	Extended Se San 3 Hydroelectricity - into Se San 3A - Se San 3	2	x	2	New construction, connecting Extended Se San 3 Hydroelectricity according to proposition under Document No. 862/EVN-KH of EVN dated February 11, 2025. Detail connection plans will be made accurate during project implementation
106	Extended Se San 4 Hydroelectricity - into Pleiku - Se San 4	2	x	1	New construction, connecting Extended Se San 4 Hydroelectricity according to proposition under Document No. 862/EVN-KH of EVN dated February 11, 2025. Detail connection plans will be made accurate during project implementation
107	Extended Srepok 3 Hydroelectricity - into Srepok 3 Hydroelectricity - Buon Kuop	2	x	1	New construction, connecting Extended Srepok 3 Hydroelectricity according to proposition under Document No. 862/EVN-KH of EVN dated February 11, 2025. Detail connection plans will

					be made accurate during project implementation
108	Extended Buon Kuop Hydroelectricity - into Buon Kuop - Krong Ana	2	x	1	New construction, connecting Extended Buon Kuop Hydroelectricity according to proposition under Document No. 862/EVN-KH of EVN dated February 11, 2025. Detail connection plans will be made accurate during project implementation
109	Dak ND'rung 1, 2, 3 Wind Power - 500 kV Dak Nong	2	x	18	Structures included under Decision No. 500/QD-TTg dated March 15, 2023. New construction, synchronized with Dak ND'rung 1, 2, 3 Wind Power if these wind power plants are eligible for implementation
110	Estimated connection load and uncurtailed output of renewable energy sources			500	New construction, renovation
111	Reservation for construction or renovation of 220 kV transmission line			500	New construction, renovation
	2031 - 2035 period				
1	Quang Tri Combined Cycle Power Plant - into Dong Nam - 500 kV Quang Tri	2	x	5	New construction
2	Quang tri 3 - 500 kV Quang Tri Renewable Energy (*)	2	x	16	New construction
3	Quang tri 4 - 500 kV Quang Tri Renewable Energy (*)	2	x	20	New construction
4	Huong Thuy - Hue - transition to Phong Dien	2	x	19	New construction
5	500 kV Phong Dien - into Phong Dien - Hue	4	x	2	New construction
6	Hue 1 Renewable Energy - 500 kV Phong Dien (*)	2	x	20	New construction
7	Hue 2 Renewable Energy -	2	x	20	New construction

	500 kV Phong Dien (*)				
8	500 kV Da Nang - into Ngu Hanh Son - Duy Xuyen	2	x	8	New construction
9	Hoa Khanh - into Hai Chau - Da Nang	2	x	1	New construction
10	500 kV Hoa Lien - Hoa Khanh - into Lien Chieu	2	x	6	New construction
11	500 kV Hoa Lien - into Hoa Khanh - Hai Chau	4	x	6	New construction, connecting 500 kV Hoa Lien Electrical Substation
12	Extended Song Tranh 2 Hydroelectricity - Song Tranh 2 Hydroelectricity	1	x	1	New construction
13	Renovation, increase of load capacity of Duy Xuyen - Da Nang	1	x	30	Renovation
14	Renovation, increase of load capacity of Duy Xuyen - Ngu Hanh Son - Da Nang	1	x	50	Renovation
15	Renovation, increase of load capacity of 500 kV Thanh My - Thanh My	2	x	20	Renovation
16	Kon Tum 4 - 500 kV Kon Tum (*)	2	x	30	New construction
17	Kon Tum 5 - 500 kV Kon Ray (*)	2	x	30	New construction
18	500 kV Mang Yang - into An Khe - Pleiku 2 (*)	2	x	10	New construction
19	500 kV Mang Yang - into An Khe Hydroelectricity - Pleiku (*)	2	x	10	New construction
20	500 kV Ia Blu - into Chu Se - Krong Buk (*)	4	x	20	New construction
21	Gia Lai 3 - 500 kV Mang Yang (*)	2	x	20	New construction
22	Gia Lai 4 - 500 kV Mang Yang (*)	2	x	20	New construction
23	Dak Lak 4 Renewable Energy	2	x	20	New construction

	- Ea Sup Solar Power (*)				
24	Dak Lak 5 Renewable Energy - 500 kV Dak Lak 2 Renewable Energy (*)	2	x	20	New construction
25	Dak Lak 6 Renewable Energy - 500 kV Dak Lak 2 Renewable Energy (*)	2	x	20	New construction
26	Dak Lak 7 Renewable Energy - 500 kV Dak Lak 2 Renewable Energy (*)	2	x	20	New construction
27	Dak Nong 4 - 500 kV Dak Nong 2 (*)	2	x	12	New construction
28	Dien Khanh - into Nha Trang - Cam Ranh	4	x	7	New construction, connecting 500 kV Dien Khanh Electrical Substation
29	Connecting Extended Song Tranh Hydroelectricity	2	x	5	New construction, connecting Extended Song Tranh Hydroelectricity according to proposition under Document No. 862/EVN-KH of EVN dated February 11, 2025. Detail connection plans will be made accurate during project implementation
30	Extended Se San 3A Hydroelectricity - into Se San 3 Hydroelectricity - Se San 3A Hydroelectricity	2	x	2	New construction, connecting Extended Se San 3A Hydroelectricity according to proposition under Document No. 862/EVN-KH of EVN dated February 11, 2025. Detail connection plans will be made accurate during project implementation
31	Estimated connection load and uncurtailed output of renewable energy sources			500	New construction, renovation
32	Reservation for construction or renovation of 220 kV transmission line			500	New construction, renovation

Schedule 11: List of 500 kV electrical substations for construction and renovation in the Southern Region

No.	Constructions	Capacity (MVA)	Note
I	**2025 - 2030 period**		
1	Di Linh	1800	Renovation, capacity increase
2	Thuan Nam	2700	Renovation, capacity increase
3	Ninh Son	2700	New construction, design of flexible operating diagram
4	Son My	900	New construction
5	Hong Phong (*)	1800	New construction, accommodating renewable energy
6	NTB 1 (*)	2700	New construction, synchronized by scale and progress of off-shore wind power sources in the Southern Central Coast
7	Cau Bong	2700	Renovation, increase of capacity
8	Cu Chi	1800	New construction
9	Chon Thanh	1800	Renovation, increase of capacity
10	Tay Ninh 1	1800	New construction
11	Tay Ninh 2	900	New construction
12	Tan Dinh	2700	Renovation, increase of capacity
13	Tan Uyen	2700	Renovation, increase of capacity
14	Binh Duong 1	1800	New construction
15	Binh Duong 2	Switching station	New construction, reservation for connection of interregional South Central Coast - Southern Region transmission line
16	Song May	2700	Renovation, increase of capacity
17	Long Thanh	1800	Renovation, increase of capacity
18	Dong Nai 2	1800	New construction
19	Phu My	900	Renovation, increase of capacity
20	Bac Chau Duc	1800	New construction
21	Duc Hoa	1800	Renovation, increase of capacity
22	Long An	1800	New construction
23	Ben Tre (*)	900	New construction, accommodating renewable energy
24	Thot Not	1800	New construction

25	Duyen Hai	1350	Renovation, increase of capacity
26	Tra Vinh 1 (*)	1800	New construction. In case of high development of renewable energy sources in Tra Vinh Province, on the basis of renewable energy sources, allocate to local administrative divisions in accordance with Document No. 1649/BCT-DL of the Ministry of Industry and Trade dated March 5, 2025
27	Long Phu	1800	Renovation, increase of capacity
28	Soc Trang (*)	1800	New construction, accommodating renewable energy
29	Bac Lieu (*)	1800	New construction, accommodating renewable energy
30	Ca Mau (*)	1800	New construction, accommodating renewable energy
31	Reserved transformer capacity for load development and electricity source development in the Southern Region	3600	Reservation for construction or renovation of additional 500 kV electrical substations
32	Constructions and projects improving control and operation capability of electrical substations and electrical system		Including but are not limited to projects that: Replace, install reactors, SVC, SVG, FACTS equipment, etc.; expand feeder bay in substations, renovate, improve graphs of substations; install short circuit protection devices, replace and upgrade devices to resist short-circuited current, establish automatic circuit; install, replace equipment, control system, SCADA/ EMS, SCADA/DMS systems, automate the station, etc. ,
II	**2031 - 2035 period**		
1	Lam Dong	1800	New construction, synchronized with aluminum work load (according to Document No. 23/SCT-QLNL dated January 4, 2025 of the Department of Industry and Trade of Lam Dong Province)
2	500 kV Ninh Thuan 1 (*)	1800	New construction, accommodating renewable energy
3	500 kV Ninh Thuan 2 (*)	1800	New construction, accommodating renewable energy
4	Hong Phong (*)	2700	Renovation, increase of capacity
5	NTB 2 (*)	1800	New construction, synchronized by scale and progress of off-shore wind power sources in the Southern

			Central Coast
6	NTB 3 (*)	1800	New construction, synchronized by scale and progress of off-shore wind power sources in the Southern Central Coast
7	Cu Chi	2700	Renovation, increase of capacity
8	Da Phuoc	2700	New construction, design of flexible operating diagram
9	Thu Duc City	1800	New construction
10	Chon Thanh	2700	Renovation, increase of capacity
11	Loc Ninh (*)	2700	New construction, accommodating renewable energy
12	Tay Ninh 2	1800	Renovation, increase of capacity
13	Tay Ninh 3 (*)	900	New construction, accommodating renewable energy
14	Binh Duong 1	2700	Renovation, increase of capacity
15	Binh Duong 2	2700	Installation of transformer at 500 kV Binh Duong 2 Switching Station
16	Long Thanh	2700	Renovation, increase of capacity
17	Dong Nai 4 (*)	2700	New construction, accommodating renewable energy
18	Long Dien	1800	New construction
19	Long An 2	900	New construction
20	Dong Thap	1800	New construction
21	An Giang	1800	New construction
22	Tien Giang	1800	New construction
23	Ben Tre (*)	1800	Renovation, increase of capacity
24	Thot Not	2700	Renovation, increase of capacity
25	Duyen Hai	1800	Renovation, increase of capacity
26	Tra Vinh 2 (*)	900	New construction, accommodating renewable energy
27	Reserved transformer capacity for load development and electricity source development in the Southern Region	3600	Reservation for construction or renovation of additional 500 kV electrical substations
28	Constructions and projects improving		Including but are not limited to projects that: Replace, install reactors, SVC, SVG, FACTS equipment, etc.;

	control and operation capability of electrical substations and electrical system		expand feeder bay in substations, renovate, improve graphs of substations; install short circuit protection devices, replace and upgrade devices to resist short-circuited current, establish automatic circuit; install, replace equipment, control system, SCADA/ EMS, SCADA/DMS systems, automate the station, etc. ,

Schedule 12: List of 500 kV transmission lines for construction and renovation in the Southern Region

No.	Name of transmission line	Circuit	x	km	Note
I	**2025 - 2030 period**				
1	Ninh Son - into Van Phong I Thermal Power Plant - Thuan Nam	4	x	18	New construction, connecting 500 kV Ninh Son Electrical Substation
2	Ninh Son - Chon Thanh	2	x	275	New construction, accommodating electricity sources. Replacing 500 kV Thuan Nam - Chon Thanh transmission line approved under Document No. 1891/TTg-CN dated December 27, 2018 for convenience in investment, construction, management, and operation.
3	Bac Ai Pumped-storage Hydroelectricity - Ninh Son	2	x	25	New construction, synchronized with Bac Ai Pumped-storage Hydroelectricity, replacing 500 kV transmission line of Bac Ai Pumped-storage Hydroelectricity - into Van Phong - Thuan Nam
4	Phuoc Hoa Pumped-storage Hydroelectricity - Ninh Son	2	x	25	New construction, synchronized with Phuoc Hoa Pumped-storage Hydroelectricity
5	Hong Phong - into Vinh Tan - Song May	4	x	10	New construction, synchronized depending on scale and progress of electricity sources in the area
6	Son My - Bac Chau Duc	2	x	80	New construction, synchronized with Son My II Thermal Power Plant
7	Vinh Tan III Thermal Power Plant - Vinh Tan	2	x	1	New construction, synchronized with Vinh Tan III Thermal Power Plant
8	Ca Na LNG - Thuan Nam	2	x	30	New construction, synchronized with Ca Na LNG
9	Connecting Ninh Thuan 1 Nuclear Power (transmitting	2	x	300	New construction, synchronized with Ninh Thuan 1 Nuclear Power Plant.

	uncurtailed output to the Southern Region)				Consideration for connection to 500 kV Binh Duong 1 Electrical Substation. In case of high development level of electricity sources in the South Central Coast, consideration for development of 765÷1000 kV transmission grid
10	Connecting Ninh Thuan 1 Nuclear Power	4	x	15	New construction, synchronized with Ninh Thuan 1 Nuclear Power Plant. Consideration for transition on 500 kV Thuan Nam - Vinh Tan transmission line
11	Connecting Ninh Thuan 2 Nuclear Power	2	x	60	New construction, synchronized with Ninh Thuan 2 Nuclear Power Plant. Consideration for connection to 500 kV Ninh Son Electrical Substation
12	Connecting Ninh Thuan 2 Nuclear Power (transmitting uncurtailed output to the Southern Region)	2	x	325	New construction, synchronized with Ninh Thuan 2 Nuclear Power Plant. Consideration for connection to 500 kV Binh Duong 2 Electrical Substation. In case of high development level of electricity sources in the South Central Coast, consideration for development of 765÷1000 kV transmission grid
13	NTB 1 - Hong Phong (*)	2	x	20	New construction, synchronized by scale and progress of off-shore wind power sources in the Southern Central Coast. Line length, cross section, and direction will be made accurate during project implementation depending on actual ocean survey results
14	Tay Ninh 1 - into Chon Thanh - Duc Hoa	4	x	2	New construction, connecting 500 kV Tay Ninh 1 Electrical Substation
15	Tay Ninh 2 - into Chon Thanh - Tay Ninh 1	2	x	30	New construction, connecting 500 kV Tay Ninh 2 Electrical Substation
16	Bac Chau Duc - into Phu My - Song May and Phu My - Long Thanh	4	x	11	New construction, connecting 500 kV Bac Chau Duc Electrical Substation
17	Increase of load capacity of 500 kV Bac Chau Dung - Song May transmission line	1	x	58	Renovation, increased accommodation of uncurtailed output in the area
18	Increase of load capacity of 500 kV Bac Chau Duc - Long Thanh - Song May	1	x	92	Renovation, increased accommodation of uncurtailed output in the area

	transmission line				
19	Increase of load capacity of 500 kV Phu My - Nha Be transmission line and Phu My - Nhon Trach 4 Power Plant - Nha Be transmission line	2	x	43	Renovation, increased accommodation of uncurtailed output in the area
20	Cu Chi - into Chon Thanh - Duc Hoa	2	x	16	New construction, connecting 500 kV Cu Chi Electrical Substation
21	Binh Duong 1 - into Song May - Tan Dinh	2	x	35	New construction, connecting 500 kV Binh Duong 1 Electrical Substation
22	Binh Duong 1 - Chon Thanh	2	x	17	New construction, establishing loop network, increasing electricity supply reliability in the area
23	Binh Duong 2 - into Tay Ninh 1 - Chon Thanh	4	x	5	New construction, connecting 500 kV Binh Duong 2 Switching Station
24	Dong Nai 2 - into Vinh Tan - Song May	4	x	5	New construction, connecting via circuits 3 and 4 of 500 kV transmission line of Vinh Tan - into Song May - Tan Uyen
25	Nhon Trach 4 Power Plant - into Phu My - Nha Be	2	x	4	New construction, synchronized with Nhon Trach 4 Power Plant
26	Long Thanh - into Bac Chau Duc - Song May	2	x	17	New construction, increased transmission of local electricity sources. Proposed cross section appropriate to 500 kV Bac Chau Duc - Song May transmission line after renovation to increase transmission capacity
27	Duc Hoa - Chon Thanh	2	x	104	New construction, connecting My Tho - Chon Thanh
28	500 kV Duc Hoa - into Phu Lam - Cau Bong (circuit 2)	2	x	13	New construction, connecting 500 kV Duc Hoa Electrical Substation and transition on remaining circuits of 500 kV Phu Lam - Cau Bong transmission line
29	Long An - into Nha Be - My Tho	2	x	1	New construction, connecting 500 kV Long An Electrical Substation
30	Increase of load capacity of 500 kV Duc Hoa - Cau Bong transmission line	2	x	24	Renovation, increase of load capacity, accommodation of electrical production of Bac Lieu LNG and renewable energy sources in the west of Southern Region
31	500 kV Tra Vinh 1 - Song Hau (*)	2	x	65	New construction. In case of high development of renewable energy sources

					in Tra Vinh Province, on the basis of renewable energy sources, allocate to local administrative divisions in accordance with Document No. 1649/BCT-DL of the Ministry of Industry and Trade dated March 5, 2025
32	500 kV Ben Tre - Long An (*)	2	x	55	New construction, connecting 500 kV Ben Tre Electrical Substation, transition to 500 kV Da Phuoc Electrical Substation during 2031 - 2035 period
33	O Mon - Thot Not	2	x	35	New construction, increase of transmission grid in the Mekong Delta; accommodating O Mon Electricity Center
34	Song Hau II Thermal Power Plant - Song Hau	2	x	1	New construction, synchronized with Song Hau II Thermal Power Plant
35	Thot Not - Duc Hoa	2	x	135	New construction, accommodating Bac Lieu LNG and renewable energy sources in the west of Southern Region, consideration for connection to Cau Bong to limit short circuit
36	Bac Lieu LNG - Thot Not	2	x	130	New construction, synchronized with Bac Lieu LNG
37	500 kV Bac - into Bac Lieu LNG - Thot Not (*)	2	x	20	New construction, accommodating renewable energy sources
38	500 kV Ca Mau - 500 kV Bac Lieu (*)	2	x	67	New construction, accommodating renewable energy
39	500 kV Soc Trang - Long Phu (*)	2	x	40	New construction, accommodating renewable energy
40	Reservation for renovation, construction of 500 kV transmission line			450	Reserved for load growth and electricity source development
II	**2031 - 2035 period**				
1	500 kV Ninh Thuan 1 - into Van Phong - Ninh Son (*)	2	x	50	New construction, synchronized depending on scale and progress of electricity sources in the area
2	500 kV Ninh Thuan 2 - into Thuan Nam - Ninh Son (*)	2	x	50	New construction, synchronized depending on scale and progress of electricity sources in the area. Consideration for transition to Nam Trung Bo HVDC Converter Station in

					presence of Nam Trung Bo - Bac Bo HVDC transmission system
3	Connecting Nam Trung Bo HVDC Converter Station			160	New construction, connecting Nam Trung Bo HVDC Converter Station, consideration for connection to Ninh Thuan 1 Nuclear Power and Ninh Thuan 2 Nuclear Power
4	Don Duong Pumped-storage Hydroelectricity - into Ninh Thuan 2 Nuclear Power - Binh Duong 2	4	x	20	New construction, synchronized with Don Duong Pumped-storage Hydroelectricity
5	Hong Phong - Long Thanh (*)	2	x	130	New construction, synchronized depending on scale and progress of electricity sources in the area
6	NTB 2 - into Hong Phong - Long Thanh (*)	4	x	25	New construction, synchronized by scale and progress of off-shore wind power sources in the Southern Central Coast. Line length, cross section, and direction will be made accurate during project implementation depending on actual ocean survey results
7	NTB 3 - Dong Nai 2 (*)	2	x	80	New construction, synchronized by scale and progress of off-shore wind power sources in the Southern Central Coast. Line length, cross section, and direction will be made accurate during project implementation depending on actual ocean survey results
8	Connecting 765÷1000 kV Nam Trung Bo 1 Station to local 500 kV grid			200	New construction in case of high development level of electricity sources in the South Central Coast
9	Connecting 765÷1000 kV Nam Trung Bo 2 Station to local 500 kV grid			200	New construction in case of high development level of electricity sources in the South Central Coast
10	500 kV Lam Dong - into Ninh Son - Chon Thanh	4	x	10	New construction, connecting 500 kV Lam Dong Electrical Substation
11	500 kV Tay Ninh 3 - 500 kV Tay Ninh 2 (*)	2	x	20	New construction, accommodating renewable energy sources
12	Loc Ninh - Chon Thanh (*)	2	x	60	New construction, accommodating renewable energy sources
13	Long Dien - into Long Son	2	x	10	New construction, connecting 500 kV

	LNG - Bac Chau Duc				Long Dien Electrical Substation
14	Long Son LNG - Bac Chau Duc	2	x	36	New construction, synchronized with Long Son LNG, dependent on progress of electricity sources
15	500 kV Dong Nai 4 - into Song May - Tan Dinh (*)	2	x	15	New construction, accommodating renewable energy
16	Da Phuoc - into Phu Lam - Nha Be	2	x	8	New construction, connecting 500 kV Da Phuoc Electrical Substation
17	Da Phuoc - Long An	2	x	10	New construction, transition to 500 kV Ben Tre Electrical Substation
18	Thu Duc City - Long Thanh	2	x	25	New construction, connecting 500 kV electrical substation of Thu Duc City
19	Connecting 765÷1000 kV Nam Bo 1 Station to local 500 kV grid	4	x	200	New construction in case of high development level of electricity sources in the South Central Coast
20	Connecting 765÷1000 kV Nam Bo 2 Station to local 500 kV grid	4	x	200	New construction in case of high development level of electricity sources in the South Central Coast
21	Tien Giang - into O Mon - My Tho	4	x	5	Built new, connected to 500 kV Tien Giang Substation
22	Long An II LNG - Long An	2	x	15	New construction, synchronized with Long An II LNG
23	Long An 2 - into Song Hau - Duc Hoa	2	x	13	New construction, connecting 500 kV Long An 2 Electrical Substation
24	500 kV Tra Vinh 2 - Duyen Hai	4	x	1	New construction, accommodating renewable energy
25	500 kV Tra Vinh 2 - Ben Tre	2	x	60	New construction, accommodating renewable energy
26	Dong Thap - Tay Ninh 2	2	x	112	New construction
27	An Giang - Dong Thap	2	x	65	New construction
28	500 kV Bac Lieu - An Giang (*)	2	x	115	New construction
29	Reservation for renovation, construction of 500 kV transmission line			500	Reserved for load growth and electricity source development

Schedule 13: List of 220 kV electrical substations for construction and renovation in the Southern Region

No.	Constructions	Capacity (MVA)	Note
I	**2025 - 2030 period**		
1	Bao Loc	500	Renovation, increase of capacity
2	Duc Trong	500	Renovation, increase of capacity
3	Ta Nang (*)	250	New construction, accommodating renewable energy
4	Bao Lam	250	New construction, synchronized with Alumin plant in Lam Dong (according to Document No. 23/SCT-QLNL dated January 4, 2025 of the Department of Industry and Trade of Lam Dong Province)
5	Da Huoai	250	New construction, synchronized with Alumin plant in Lam Dong (according to Document No. 23/SCT-QLNL dated January 4, 2025 of the Department of Industry and Trade of Lam Dong Province)
6	Da Nhim Hydroelectricity	375	Renovation, increase of capacity
7	Phuoc Thai	750	Renovation, increase of capacity
8	Da Nhim Switching Station	Switching station	New construction
9	Ca Na	500	New construction
10	Dong Quan The	480	New construction, synchronized with dedicated load
11	Ham Thuan Hydroelectricity	125	Renovation, increase of capacity
12	Dai Ninh Hydroelectricity	250	Renovation, increase of capacity
13	Ham Thuan Nam	500	New construction
14	Vinh Hao	500	Renovation, increase of capacity
15	Hoa Thang (*)	500	New construction
16	Associated 500 kV Hong Phong	500	New construction
17	Binh Thuan Wind Power 1 (*)	250	New construction, accommodating renewable energy
18	Tan Son Nhat	500	New construction
19	Dam Sen	500	New construction

20	Thu Thiem	500	New construction
21	Binh Chanh 1	500	New construction
22	Ba Queo (Vinh Loc)	500	New construction
23	District 7	500	New construction
24	Nam Hiep Phuoc	500	New construction
25	District 9	500	New construction
26	Northwest Cu Chi	250	New construction
27	Phu Hoa Dong	250	New construction
28	Can Gio	500	New construction
29	Phuoc Long	500	Renovation, increase of capacity
30	Dong Binh Phuoc (*)	500	New construction, accommodating renewable energy
31	Binh Phuoc Alumin	500	New construction, synchronized with Binh Phuoc Alumin plant (according to Document No. 1058/UBND-TH dated March 11, 2025 of the People's Committee of Binh Phuoc Province)
32	Dong Xoai	250	New construction
33	Tan Bien	500	Renovation, increase of capacity
34	Phuoc Dong	500	New construction
35	Tay Ninh 3	250	New construction
36	Tan Dinh	750	Renovation, increase of capacity
37	Ben Cat 2	500	New construction
38	Tan Dinh 2	500	New construction
39	An Thanh (VSIP)	500	New construction
40	Binh My	500	New construction
41	North Tan Uyen	500	New construction
42	Lai Uyen	500	New construction
43	Phu Giao	500	New construction
44	Tri An Hydroelectricity	500	Renovation, increase of capacity
45	Tam Phuoc	500	Renovation, increase of capacity
46	Thong Nhat	500	New construction

47	Nhon Trach Industrial Park	500	New construction
48	Long Khanh	500	Renovation, increase of capacity
49	Ho Nai	500	New construction
50	Dau Giay	500	New construction
51	Bien Hoa	500	New construction
52	Dong Nai 3 (*)	750	New construction, accommodating renewable energy
53	Dong Nai 4 (*)	750	New construction, accommodating renewable energy
54	Ba Ria	250	Renovation, increase of capacity
55	Phu My 3 Industrial Park	500	New construction
56	Phuoc Thuan (Dat Do)	500	New construction
57	Long Son	250	New construction
58	Can Duoc	500	Renovation, increase of capacity
59	Duc Hoa 2	500	New construction
60	Associated 500 kV Duc Hoa	500	New construction
61	Ben Luc 2 (Duc Hoa 3)	500	New construction, replacement of 220 kV Duc Hoa 3 Electrical Substation under the VIII Electricity Planning (according to request of EVNNPT under Document No. 781/EVNNPT-KH+DT dated February 21, 2025).
62	Tan Lap	250	New construction
63	Kien Tuong	250	New construction
64	Lap Vo	250	New construction
65	Hong Ngu	250	New construction
66	Long Xuyen	500	Renovation, increase of capacity
67	Cho Moi	250	New construction
68	Chau Thanh (An Giang)	250	New construction
69	Cai Lay	500	Renovation, increase of capacity
70	My Tho	500	Renovation, increase of capacity
71	Tan Phuoc (Cai Be)	500	New construction

72	Go Cong	500	New construction
73	Vinh Long 3	250	New construction
74	Mo Cay	500	Renovation, increase of capacity
75	Binh Dai (*)	500	New construction, accommodating renewable energy
76	Thanh Phu (*)	500	New construction, accommodating renewable energy
77	An Bien (Vinh Thuan)	500	New construction
78	Phu Quoc	500	New construction
79	Tra Noc	500	Renovation, increase of capacity
80	O Mon	500	Renovation, increase of capacity
81	Chau Thanh (Hau Giang)	500	Renovation, increase of capacity
82	Tra Vinh	500	Renovation, increase of capacity
83	Tra Vinh 3	450	New construction, synchronized with development progress of dedicated load
84	Tran De (*)	500	New construction, accommodating renewable energy
85	Bac Lieu	375	Renovation, increase of capacity
86	Gia Rai	250	Renovation, increase of capacity
87	Hoa Binh (*)	500	New construction
88	Bac Lieu 3 (*)	500	New construction, accommodating renewable energy
89	Ca Mau 3	450	New construction, synchronized with development progress of dedicated load
90	Nam Can	500	New construction
91	Reserved transformer capacity for load development and electricity source development in the Southern Region	3500	Reservation for construction or renovation of additional 220 kV electrical substations
92	Installation of fault current limiters at, including but not limited to, busbars of 500 kV electrical substations of Vinh Tan,		Limiting short-circuit current

	Bac Chau Duc, Ba Queo Electrical Substation (220 kV Ba Queo - Dam Sen transmission line)		
93	Renovation of flexible busbar diagrams including but not limited to 500 kV electrical substations of Duc Hoa, O Mon, Ninh Phuoc, Long Thanh, Cu Chi		Limiting short-circuit current, increasing electricity supply reliability
94	Constructions and projects improving control and operation capability of electrical substations and electrical system		Including but are not limited to projects that: Replace, install reactors, SVC, SVG, FACTS equipment, etc.; expand feeder bay in substations, renovate, improve graphs of substations; install short circuit protection devices, replace and upgrade devices to resist short-circuited current, establish automatic circuit; install, replace equipment, control system, SCADA/ EMS, SCADA/DMS systems, automate the station, etc. ,
II	**2031 - 2035 period**		
1	Da Lat	250	New construction
2	220 kV Ninh Thuan 1 (*)	750	New construction, accommodating renewable energy
3	220 kV Ninh Thuan 2 (*)	750	New construction, accommodating renewable energy
4	220 kV Ninh Thuan 3 (*)	750	New construction, accommodating renewable energy
5	Binh Thuan Wind Power 1 (*)	500	Renovation, increase of capacity
6	Hong Liem (*)	250	New construction, accommodating renewable energy
7	Northwest Cu Chi	500	Renovation, increase of capacity
8	Phu Hoa Dong	500	Renovation, increase of capacity
9	Binh Chanh 2	500	New construction
10	Hoc Mon 2	500	New construction
11	Associated 500 kV Thu	750	New construction

	Duc City		
12	Associated 500 kV Da Phuoc	750	New construction
13	Dong Binh Phuoc (*)	750	Renovation, increase of capacity
14	Dong Xoai	500	Renovation, increase of capacity
15	Hon Quan	250	New construction
16	220 kV Binh Phuoc 1 (*)	750	New construction, accommodating renewable energy
17	220 kV Binh Phuoc 2 (*)	750	New construction, accommodating renewable energy
18	Tay Ninh	750	Renovation, increase of capacity
19	Tay Ninh 2	750	Renovation, increase of capacity
20	Ben Cau	500	New construction
21	Tay Ninh 3	500	Renovation, increase of capacity
22	Tan Chau 1 (*)	500	New construction, accommodating renewable energy
23	My Phuoc	750	Renovation, increase of capacity
24	Uyen Hung	750	Renovation, increase of capacity
25	Ben Cat	750	Renovation, increase of capacity
26	Tan Uyen	750	Renovation, increase of capacity
27	Ben Cat 2	750	Renovation, increase of capacity
28	Tan Dinh 2	750	Renovation, increase of capacity
29	An Thanh (VSIP)	750	Renovation, increase of capacity
30	Binh My	750	Renovation, increase of capacity
31	Ben Cat 3	750	New construction
32	Bau Bang	750	New construction
33	Associated 500 kV Binh Duong 2	750	New construction
34	Long Thanh	750	Renovation, increase of capacity
35	An Phuoc	750	Renovation, increase of capacity
36	Tam Phuoc	750	Renovation, increase of capacity
37	Nhon Trach Industrial Park	750	Renovation, increase of capacity
38	Bien Hoa	750	Renovation, increase of capacity

39	Dong Nai 3 (*)	1000	Renovation, increase of capacity
40	Dong Nai 4 (*)	1000	Renovation, increase of capacity
41	Associated 500 kV Long Thanh	750	New construction
42	Long Thanh 2 Industrial Park	750	New construction
43	Associated 500 kV Dong Nai 2	750	New construction
44	Long Son	500	Renovation, increase of capacity
45	Phu My City	500	New construction
46	Vung Tau 2	500	New construction
47	Associated 500 kV Duc Hoa	750	Renovation, increase of capacity
48	Tan Lap	500	Renovation, increase of capacity
49	Can Giuoc	500	New construction
50	Kien Tuong	500	Renovation, increase of capacity
51	Associated 500 kV Long An 2	500	New construction
52	Lap Vo	500	Renovation, increase of capacity
53	Hong Ngu	500	Renovation, increase of capacity
54	Associated 500 kV Dong Thap	250	New construction
55	Cho Moi	500	Renovation, increase of capacity
56	Chau Thanh (An Giang)	500	Renovation, increase of capacity
57	Associated 500 kV An Giang	250	New construction
58	Tan Phuoc (Cai Be)	750	Renovation, increase of capacity
59	Associated 500 kV Tien Giang	500	New construction
60	Vinh Long 3	500	Renovation, increase of capacity
61	Ba Tri	500	New construction
62	Vinh Quang	250	New construction
63	Thot Not	500	Renovation, increase of capacity

64	Vi Thanh	250	New construction
65	Duyen Hai	500	Renovation, increase of capacity
66	Bac Lieu	500	Renovation, increase of capacity
67	Gia Rai	500	Renovation, increase of capacity
68	Bac Lieu 4 (*)	500	New construction, accommodating renewable energy
69	Ca Mau 4	250	New construction, accommodating renewable energy
70	Reserved transformer capacity for load development and electricity source development in the Southern Region	3500	Reservation for construction or renovation of additional 220 kV electrical substations
71	Constructions and projects improving control and operation capability of electrical substations and electrical system		Including but are not limited to projects that: Replace, install reactors, SVC, SVG, FACTS equipment, etc.; expand feeder bay in substations, renovate, improve graphs of substations; install short circuit protection devices, replace and upgrade devices to resist short-circuited current, establish automatic circuit; install, replace equipment, control system, SCADA/ EMS, SCADA/DMS systems, automate the station, etc. ,

Schedule 14: List of 220 kV transmission lines for construction and renovation in the Southern Region

No.	Name of transmission line	Circuit	x	km	Note
I	**2025 - 2030 period**		**x**		
1	Circuit 2 of Bao Loc - Song May	2	x	118	Renovation of circuit 1, construction of circuit 2, improved reliability
2	220 kV Da Nhim Switching Station - into Thap Cham - Da Nhim	2	x	1	New construction, synchronized with 220 kV Da Nhim Switching Station
3	220 kV Da Nhim Switching Station - Duc Trong - Di Linh	2	x	96	New construction, accommodating local electricity sources. Replacing structures that renovate 220 kV Da

					Nhim - Duc Trong - Di Linh transmission line from single circuit to double circuit due to difficulties in disconnecting existing transmission line and failure to expand 220 kV Da Nhim Hydroelectricity Substation
4	Dong Nai 2 Hydroelectricity - into Duc Trong - Di Linh and transition to (Duc Trong - Dong Nai 2 Hydroelectricity instead of Duc Trong - Di Linh), increase of load capacity of 220 kV Dong Nai 2 Hydroelectricity - Di Linh transmission line	1	x	15	New construction and renovation, establishment of 220 kV single-circuit transmission line of Duc Trong - Dong Nai 2 Hydroelectricity - Di Linh replacing 220 kV double-circuit transmission line of Dong Nai 2 Hydroelectricity - Di Linh
5	Duc Trong - into 220 kV Da Nhim Switching Station - Di Linh	2	x	1	New construction, accommodating local electricity sources
6	Bao Lam - Bao Loc	2	x	25	New construction, synchronized with Alumin Plant in Lam Dong
7	Da Huoai - into Bao Loc - Dinh Quan	2	x	2	New construction, synchronized with Alumin Plant in Lam Dong
8	Duc Trong Wind Power - into Da Nhim - Duc Trong (*)	2	x	1	New construction, synchronized with Duc Trong Wind Power Plant Revised location and connection plans of Duc Trong Wind Power Plant are proposed under Document No. 3225/BCT-DL dated June 9, 2022, Document No. 4777/BCT-DL dated August 11, 2022, Document No. 6660/BCT-DL dated October 26, 2022 of Ministry of Industry and Trade and Document No. 835/TTg-CN dated September 22, 2022 of the Prime Minister. Synchronized with 220 kV Da Nhim Switching Station - Duc Trong - Di Linh transmission line
9	Ta Nang - into Duc Trong - Di Linh (*)	2	x	20	New construction, connecting 220 KV Ta Nang Electrical Substation via 220 kV Duc Trong - Di Linh

					transmission line (new circuit). Synchronized depending on scale and progress of electricity sources in the area
10	Connecting Da R'Sal Hydroelectricity (**)	1	x	30	New construction, synchronized with electricity sources. Document No. 23/SCT-QLNL dated January 4, 2025 of the Department of Industry and Trade of Lam Dong Province proposing connecting Da R'Sal Hydroelectricity to 220 kV Switching Station of 220 kV Electrical Substation of Buon Tua Srah Hydroelectricity. Specific connection plans will be made accurate during project implementation.
11	500 kV Ninh Son - into Thap Cham - Ninh Phuoc	4	x	27	New construction, connecting 500 kV Ninh Son Electrical Substation
12	500 kV Ninh Son - Ninh Phuoc	2	x	47	New construction, replacing 220 kV Ninh Phuoc - Vinh Tan transmission line due to difficulty in direction
13	500 kV Ninh Son - 220 kV Da Nhim Switching Station	2	x	18	New construction, accommodating local electricity sources
14	Them Cham - 220 kV Da Nhim Switching Station	2	x	46	New construction, accommodating local electricity sources
15	500 kV Vinh Tan - Ca Na	2	x	14	New connection, connecting 220 kV Ca Na Substation
16	Phuoc Huu Wind Power - 220 kV Ninh Phuoc (*)	1	x	2	New construction, connecting Phuoc Huu Wind Power, replacing 110 kV Phuoc Huu Wind Power - 110 kV Ninh Phuoc transmission line approved under Decision No. 3768/QD-BCT dated July 27, 2011 due to inability of the 110 kV grid to serve. 220 kV-63 MVA step-up substation of Phuoc Huu Wind Power
17	Dong Quan The - into Vinh Tan - 220 kV Quan The Switching Station	2	x	1	New construction, synchronized with development progress of dedicated load
18	Dong Quan The - Ca Na	1	x	7	New construction, synchronized with development progress of dedicated

					load
19	Phase 2 Extended Da Nhim Hydroelectricity - 220 kV Da Nhim Distribution Yard	1	x	1	New construction, synchronized with electricity sources. Plans proposed under Document No. 862/EVN-KH of EVN dated February 11, 2025. Specific connection plans will be made accurate during project implementation.
20	Ham Tan - into Phan Thiet - Chau Duc (circuit 2)	2	x	6	New construction, connecting 220 kV Ham Tan Substation and transition on remaining circuit of 220 kV Phan Thiet - Tan Thanh transmission line
21	Ham Thuan Nam - into Phan Thiet - Ham Tan	4	x	4	New construction, connecting 220 kV Ham Thuan Nam Electrical Substation
22	Hoa Thang - into Phan Thiet - Phan Ri	2	x	7	New construction, connecting 220 kV Hoa Thang Electrical Substation
23	Increase of load capacity of Ham Thuan - Da My - Xuan Loc	2	x	95	Renovation, increase of load capacity
24	Increase of load capacity of Phan Thiet - Ham Thuan	1	x	55	Renovation, increase of load capacity
25	Phuoc Thai - into Vinh Tan - Thap Cham (circuit 2)	2	x	3	New construction, connecting 220 kV Phuoc Thai Electrical Substation on remaining circuit of 220 kV Vinh Tan - Thap Cham transmission line, accommodating local electricity sources
26	Hong Phong - into Phan Thiet - Phan Ri	2	x	1	New construction, synchronized depending on scale and progress of electricity sources in the area
27	Binh Thuan 1 Wind Power - into Vinh Tan - Phan Thiet (*)	2	x	4	New construction, synchronized depending on scale and progress of electricity sources in the area
28	Increase of load capacity of Phan Ri - Phan Thiet	2	x	52	Renovation, increase of load capacity, installation of uniform cross-section throughout 220 kV Phan Ri - Phan Thiet transmission line to accommodate local electricity sources
29	Phan Ri - 500 kV Hong	2	x	16	New construction, increased

	Phong				accommodation for local electricity sources
30	500 kV Hong Phong - into Phan Ri - Phan Thiet	4	x	5	New construction, connecting 500 kV Hong Phong Electrical Substation
31	500 kV Son My - into Ham Tan - Phuoc Thuan (Dat Do)	4	x	4	New construction
32	Increase of load capacity of Binh Long - Chon Thanh	2	x	32	Increase of load capacity and accommodating local electricity sources
33	Tan Bien - Tay Ninh	2	x	25	New construction
34	500 kV Tay Ninh 1 - into Tay Ninh 2 - Trang Bang	4	x	8	New construction
35	500 kV Tay Ninh 1 - Phuoc Dong	2	x	8	New construction
36	Binh Phuoc Alumin - into Phuoc Long - Aluminum Electrolysis	2	x	15	New construction, synchronized with Binh Phuoc Alumin plant (according to Document No. 1058/UBND-TH dated March 11, 2025 of the People's Committee of Binh Phuoc Province)
37	Dong Xoai - Chon Thanh	2	x	20	New construction
38	Binh Long - Chon Thanh (circuits 3 and 4)	2	x	32	New construction, accommodating local electricity sources
39	Dong Binh Phuoc - into Binh Long - Aluminum Electrolysis Plant (*)	4	x	12	New construction, synchronized depending on scale and progress of electricity sources in the area
40	Increase of load capacity of 220 kV transmission line of 500 kV Chon Thanh - My Phuoc	2	x	45	Increase of load capacity and accommodating local electricity sources
41	Increase of load capacity of 220 kV My Phuoc - 500 kV Tan Dinh transmission line	2	x	17	Increase of load capacity and accommodating local electricity sources
42	500 kV Tay Ninh 2 - into Ho Dau Tieng Solar Power - Tay Ninh	4	x	3	New construction, connecting 220 kV side of 500 kV Tay Ninh 2 Electrical Substation
43	500 kV Tay Ninh 2 - Tay Ninh (connecting to Tan	2	x	6	New construction, connecting 220 kV side of 500 kV Tay Ninh 2 Electrical

	Bien)				Substation
44	Tay Ninh 3 - 500 kV Tay Ninh 2	2	x	16	New construction
45	Increase of load capacity of Phu My - Long Thanh	2	x	25	Renovation, increase of load capacity
46	Increase of load capacity of Phu My - Tan Thanh	2	x	11	Renovation, increase of load capacity
47	Phu My 3 Industrial Park - into Tan Thanh - Chau Duc	4	x	1	New construction
48	500 kV North Chau Duc - into Chau Duc - Tan Thanh	4	x	10	New construction
49	Phuoc Thuan (Dat Do) - into Phan Thiet - Tan Thanh and Ham Tan - Tan Thanh	4	x	6	New construction
50	Long Son - into Chau Duc - Phu My 3 Industrial Park	2	x	8	New construction, consideration for conductor with cross section appropriate to that of 220 kV renovated transmission line of Chau Duc - Phu My 3 Industrial Park
51	Chau Duc - into Ham Tan - Tan Thanh (circuit 2)	2	x	2	New construction, connecting 220 kV Chau Duc Electrical Substation to two circuits of 220 kV Ham Tan - Tan Thanh transmission line
52	Increase of load capacity of Tan Thanh - Vung Tau	2	x	30	Renovation, increase of load capacity
53	Increase of load capacity of Ham Tan - Chau Duc and Ham Tan - Da Bac Solar Power - Chau Duc	2	x	60	Increase of load capacity and accommodating local electricity sources
54	Cat Lai - Tan Cang	2	x	15	New construction
55	Binh Chanh 1 - Cau Bong	2	x	21	New construction, under 220 kV Cau Bong - Binh Tan transmission line project
56	Tan Son Nhat - Thuan An	2	x	15	New construction
57	Tan Son Nhat - into Hoc Mon - Thu Duc	2	x	9	New construction

58	Phu Lam - Dam Sen	2	x	6	New construction
59	Dam Sen - Ba Queo - Tan Son Nhat	2	x	10	New construction
60	500 kV Long Thanh - Hi-tech	2	x	25	New construction
61	500 kV Cu Chi - Cu Chi - Trang Bang	4	x	1	Built, connected to establish 220 kV transmission line of 500 kV Cu Chi - Trang Bang and 500 kV Cu Chi - Tan Dinh
62	500 kV Cu Chi - Cu Chi - Tan Dinh	2	x	1	Built and connected to establish 220 kV transmission line of 500 kV Cu Chi - 220 kV Cu Chi
63	Thu Thiem - Cat Lai - Tan Cang	4	x	1	New construction
64	District 7 - Nha Be and expanding 220 kV feeder bay in 500 kV Nha Be Substation	2	x	6	New construction, connecting 220 kV District 7 Electrical Substation, in case of inability to expand 220 kV feeder bays at 550 kV Nha Be Electrical Substation, consideration for connection of District 7 - Nhon Trach 1&2 Thermal Power - Nha Be (2x7km), using large cross-section conductor
65	District 9 - into Long Thanh - Hi-tech	4	x	5	New construction
66	Phase 1 Hiep Phuoc LNG - into Phu My - Can Duoc	4	x	3	New construction, synchronized with Phase 1 Hiep Phuoc LNG
67	Increase of load capacity of 220 kV transmission line of Phu My - Can Duoc - My Tho - 500 kV My Tho	2	x	112	Increase of load capacity and synchronized with Phase 1 Hiep Phuoc LNG
68	Increase of load capacity of Phu My - Tan Thanh	2	x	11	Renovation, increase of load capacity
69	Nam Hiep Phuoc - into Phu My - Can Duoc	4	x	2	New construction, connecting 220 kV Nam Hiep Phuoc Electrical Substation Proposing conductor with cross section appropriate to renovated 220 kV Phu My - Can Duoc transmission line

70	Can Gio - into Phu My - Nam Hiep Phuoc	2	x	28	New construction
71	Ben Cat 2 - into Tan Dinh - Cu Chi	4	x	1	New construction
72	Ben Cat 2 - into Chon Thanh - Ben Cat	2	x	20	New construction and transition on a circuit of 220 kV Chon Thanh - Ben Cat transmission line
73	Tan Dinh 2 - into My Phuoc - Ben Cat	4	x	11	New construction
74	500 kV Binh Duong 1 - into Uyen Hung - Song May	4	x	40	New construction, connecting 500 kV Binh Duong 1 Electrical Substation
75	An Thanh (VSIP) - into Tan Uyen - Thuan An	4	x	3	New construction
76	Binh My - into Binh Duong 1 - Song May	4	x	3	New construction
77	Lai Uyen - into Chon Thanh - Ben Cat	4	x	1	New construction
78	Bac Tan Uyen - into Binh My - Song May	2	x	7	New construction
79	Song May - Tam Phuoc	2	x	14	New construction
80	500 kV Dong Nai 2 - into Xuan Loc - Long Thanh	4	x	12	New construction
81	Nhon Trach 3 Power Plant - into My Xuan - Cat Lai	2	x	10	New construction, synchronized with Nhon Trach 3 Power Plant; replacing Nhon Trach 3 Power Plant - Cat Lai transmission line (transition to Thu Duc) due to difficulty in transmission line direction
82	Nhon Trach 3 Power Plant - 500 kV Long Thanh	2	x	44	New construction, synchronized with Nhon Trach 3 Power Plant
83	Nhon Trach Industrial Park - into Nhon Trach 3 Power Plant - 500 kV Long Thanh	4	x	3	New construction, synchronized with 220 kV Electrical Substation of Nhon Trach Industrial Park. If Nhon Trach 3 Power Plant is behind on progress, consideration for construction of 220 kV transmission line of Nhon Trach Industrial Park - Long Thanh
84	Increase of load capacity	1	x	16	Renovation, increase of load capacity

	of Song May - Long Binh (circuit 1)				
85	Increase of load capacity of Song May - Long Binh (circuit 2)	1	x	25	Renovation, increase of load capacity
86	Thong Nhat - into Bao Loc - Song May	4	x	2	New construction
87	Increase of load capacity of Tan Dinh - Binh Hoa	2	x	11	Renovation, increase of load capacity
88	Extended Tri An Hydroelectricity - Tri An Hydroelectricity	2	x	1	New construction, synchronized with Extended Tri An Hydroelectricity
89	Northwest Cu Chi - 500 kV Cu Chi	2	x	12	New construction
90	Binh Chanh 1 - Duc Hoa	2	x	10	New construction
91	Phu Hoa Dong - into Cu Chi - Cau Bong	4	x	5	New construction
92	Increase of load capacity of Cau Bong - Cu Chi	2	x	22	Renovation, increase of load capacity
93	Increase of load capacity of Cau Bong - Binh Tan - Phu Lam	2	x	34	Renovation, increase of load capacity
94	Increase of load capacity of Thu Duc - Tan Uyen - Long Binh	2	x	44	Increase of load capacity depending on load capacity of existing submarine cable sections
95	Tan Dinh 2 - Binh My	2	x	14	New construction
96	Bien Hoa - into Tan Uyen - Long Binh	4	x	1	New construction
97	Dau Giay - 500 kV Dong Nai 2	2	x	30	New construction
98	Dau Giay - 500 kV Long Thanh	2	x	12	New construction
99	220 kV Dong Nai 3 - Tan Uyen (*)	2	x	55	Synchronized depending on scale and progress of electricity sources in the area
100	220 kV Dong Nai 4 - Uyen Hung (*)	2	x	31	Synchronized depending on scale and progress of electricity sources in the area

101	Increase of load capacity of 220 kV Long Thanh - An Phuoc - Tam Phuoc	2	x	16	Renovated, increase of load capacity. Proposed large cross-section bundled conductors
102	Increase of load capacity of 500 kV Long Thanh - 220 kV Long Thanh	2	x	19	Renovation, increase of load capacity
103	Ho Nai - into Song May - Tam Phuoc	4	x	1	New construction
104	Phu Giao - into Binh Duong 1 - Uyen Hung	4	x	2	New construction
105	Increase of load capacity of Long An - Ben Luc	2	x	14	Renovation, increase of load capacity
106	Go Cong - Can Duoc	2	x	27	New construction
107	500 kV Duc Hoa - Phu Lam - Long An (circuit 2)	2	x	20	New construction, connecting 220 kV side of 500 kV Duc Hoa Substation and transition on remaining circuit of 220 kV transmission line of Phu Lam - 500 kV Long An
108	Duc Hoa 2 - into 500 kV Duc Hoa - Duc Hoa 1	4	x	10	New construction
109	Ben Luc 2 (Duc Hoa 3) transition on 220 kV transmission line of 500 kV Duc Hoa - Phu Lam and 220 kV transmission line of 500 kV Duc Hoa - Ben Luc.	4	x	6	New construction, replacing 220 kV Duc Hoa 3 transmission line transition on 220 kV transmission line of 500 KV Duc Hoa - into Phu Lam - Long An under the VIII Electricity Planning
110	Installing circuits 3 and 4 of 220 kV transmission line of 500 kV Duc Hoa - Duc Hoa 1	2	x	25	Consideration for connection to 220 kV Substation of Northwest Cu Chi
111	500 kV Long An - into Can Duoc - Phu My	4	x	1	New construction
112	Increase of load capacity of Ben Luc - Phu Lam	2	x	28	Renovation, increase of load capacity
113	Tan Lap - into 500 kV Duc Hoa - Long An	4	x	9	New construction
114	Kien Tuong - Tan Lap	2	x	40	New construction. Where 220 kV Tan Lap Electrical Substation is behind on

					progress, invest transmission line of 220 kV Kien Tuong - into 500 kV Duc Hoa - Long An (2x50 km) in advance
115	Long An I LNG - 500 kV Long An	2	x	18	New construction, synchronized with Long An I LNG, depending on electricity source progress; proposing distribution yard for 220 kV Long An I LNG with flexible busbar section graphs.
116	Long An I LNG - Ben Luc	2	x	30	New construction, synchronized with Long An I LNG, depending on electricity source progress; proposing distribution yard for 220 kV Long An I LNG with flexible busbar section graphs.
117	Tan Phuoc (Cai Be) - into 500 kV My Tho - Long An	4	x	7	New construction
118	My Tho - into 500 kV My Tho - Can Duoc (circuit 2)	2	x	4	New construction, connecting 220 kV My Tho Substation and transition on remaining circuit of 220 kV My Tho - 500 kV Can Duoc transmission line
119	Can Duoc - into 500 kV Phu My - My Tho (circuit 2)	2	x	5	New construction, connecting 220 kV Can Duoc Substation and transition on remaining circuit of 220 kV My Tho - 500 kV Can Duoc transmission line
120	Long My 1 Wind Power - into Ca Mau Thermal Power - O Mon (*)	2	x	1	New construction, synchronized with Long My 1 Wind Power
121	Vinh Long 3 - into Vinh Long 2 - Tra Vinh	4	x	1	New construction
122	Ben Tre - Binh Dai (*)	2	x	50	New construction, synchronized depending on scale and progress of electricity sources in the area
123	Thanh Phu - into Hai Phong Wind Power - Mo Cay (*)	4	x	3	New construction, synchronized depending on scale and progress of electricity sources in the area. In case Hai Phong Wind Power is behind on progress, construction of 220 kV double-circuit Thanh Phu - Mo Cay transmission line in advance and

					synchronized with 220 kV Thanh Phu Substation, Hai Phong Wind Power connecting 220 kV Thanh Phu Substation via double-circuit 220 kV transmission line. Considering conductors of large cross section to accommodate renewable energy
124	Mo Cay - 500 kV My Tho (*)	2	x	42	New construction, synchronized depending on scale and progress of electricity sources in the area
125	An Bien (Vinh Thuan) - into Ca Mau Thermal Power - Rach Gia	2	x	17	New construction
126	Tra Vinh 3 - 500 kV Duyen Hai	2	x	3	New construction, synchronized with 220 kV Tra Vinh 3 Substation
127	Ben Tre Wind Power No. 19 - Binh Dai (*)	2	x	12	New construction, synchronized with Ben Tre Wind Power No. 19. Accommodating Ben Tre Wind Power No. 19 and No. 20. Revising solutions under Document No. 911/TTg-CN, replacing 220 kV Ben Tre Wind Power No. 19 - Ben Tre transmission line of approximately 50 km in length due to difficulty in expanding feeder bays in 220 kV Ben Tre Substation. Actual length is approximately 0,03 km.
128	Hai Phong Wind Power - Mo Cay (*)	2	x	50	New construction, synchronized with Hai Phong Wind Power, connection plans approved under Document No. 911/TTg-CN dated July 15, 2020
129	Dong Thanh 1 Wind Power - 500 kV Duyen Hai (*)	2	x	4	New construction, synchronized with Dong Thanh 1 Wind Power. Accommodating Dong Thanh 1 and Dong Thanh 2 Wind Power. Amending plans under Document No. 911/TTg-CN, replacing 220 kV Dong Thanh 1 Wind Power - into Dong Hai 1 - 500 kV Duyen Hai transmission line to avoid overloading 220 kV Dong Hai 1 Wind Power - South Central Tra Vinh Solar Power - 500 kV Duyen Hai transmission line.

130	Thang Long Wind Power - 220 kV Duyen Hai (*)	1	x	12	New construction, synchronizing Thang Long Wind Power. Connection plans approved under Document No. 911/TTg-CN dated June 24, 2020
131	500 kV Ben Tre - into Binh Dai - Ben Tre	4	x	16	New construction, connecting 500 kV Ben Tre Electrical Substation
132	500 kV Ben Tre - into Thanh Phu - Mo Cay	4	x	10	New construction, connecting 500 kV Ben Tre Electrical Substation
133	500 kV Thot Not - Lap Vo	2	x	22	New construction
134	Hong Ngu - Chau Doc	2	x	40	New construction
135	Lap Vo - Hong Ngu	2	x	55	New construction
136	Sa Dec - into O Mon - Vinh Long (circuit 2)	2	x	1	New construction, connecting 220 kV Sa Dec Substation and transition on remaining circuit of 220 kV O Mon - Vinh Long transmission line
137	Long Xuyen - into Chau Doc - Thot Not (circuit 2)	2	x	1	New construction, connecting 220 kV Long Xuyen Substation and transition on remaining circuit of 220 kV Chau Doc - Thot Not transmission line
138	Chau Thanh (An Giang) - into Long Xuyen - Chau Doc	4	x	2	New construction
139	Cho Moi - Chau Thanh (An Giang)	2	x	9	New construction
140	Renovating 220 kV Chau Doc - Kien Binh 1 transmission line from single-circuit to double-circuit	2	x	75	Renovation from single-circuit to double-circuit, increase of load capacity
141	Tran De - 500 kV Long Phu	2	x	24	New construction, synchronized depending on scale and progress of electricity sources in the area
142	Vinh Chau - into Long Phu - Soc Trang (circuit 2)	2	x	20	New construction, connecting 220 kV Vinh Chau Substation and transition on remaining circuit of 220 kV Long Phu - Soc Trang transmission line
143	Soc Trang 4 Wind Power - Vinh Chau (*)	2	x	5	New construction, synchronized with Soc Trang 4 Wind Power, connection plans approved under Document No.

					911/TTg-CN dated June 24, 2020
144	Phu Cuong 1A and 1B Wind Power - Vinh Chau (*)	2	x	22	New construction, synchronized with Phu Cuong 1A and 1B Wind Power built and synchronized; connection plans approved under Document No. 911/TTg-CN dated June 24, 2020
145	Phase 3 Bac Lieu Wind Power - Bac Lieu (*)	2	x	18	New construction, synchronized with Phase 3 Bac Lieu Wind Power, connection plans approved under Decision No. 209/QD-TTg dated February 9, 2018
146	220 kV double-circuit transmission line connecting 220 kV Bac Lieu Electrical Substation transition on 220 kV transmission line of Ca Mau Thermal Power - Soc Trang	2	x	5	New construction, accommodating local electricity sources; specific name of the construction approved under Document No. 441/TTg-CN dated April 16, 2020 "DD 220 kV mạch kép đấu nối TBA 220 kV Bạc Liêu chuyển tiếp trên DD ND Cà Mau - Bạc Liêu" (220 kV double-circuit transmission line connecting to 220 kV Bac Lieu Substation and on Ca Mau Thermal Power - Bac Lieu transmission line)
147	Hoa Binh - into Gia Rai - Bac Lieu	2	x	13	New construction, connecting 220 kV Hoa Binh Substation (Bac Lieu Province) and transition on 220 kV Gia Rai - Bac Lieu transmission line, accommodating local electricity sources
148	Hoa Binh transition on 220 kV transmission line connected to Hoa Binh 5 Wind Power	4	x	5	New construction, connecting 220 kV Hoa Binh Substation (Bac Lieu Province) built and connected, accommodating local electricity sources
149	Bac Lieu 3 - 500 kV Bac Lieu (*)	2	x	30	New construction, synchronized depending on scale and progress of electricity sources in the area
150	500 kV Bac Lieu - into Gia Rai - Hoa Binh	4	x	6	New construction, synchronized with 500 kV Bac Lieu Substation
151	500 kV Bac Lieu - Hoa Binh	2	x	18	New construction, accommodating renewable energy
152	Ca Mau - Nam Can	2	x	58	New construction

153	Ca Mau 3 - into Ca Mau - Nam Can	2	x	26	New construction, synchronized with 220 kV Ca Mau 3 Substation
154	Ca Mau 1 Wind Power Complex - Ca Mau (*)	2	x	52	New construction, synchronized with Ca Mau 1 Wind Power Complex
155	500 kV Ca Mau - into Nam Can - Ca Mau	4	x	8	New construction
156	500 kV Ca Mau - into Ca Mau 1 Wind Power - Ca Mau	4	x	8	New construction
157	NB 1 - Vung Tau (*)	2	x	3	New construction, synchronized with scale and progress of off-shore wind power sources in the Southern Region. Line length, cross section, and direction will be made accurate during project implementation depending on actual ocean survey results
158	NB 2 - 500 kV Ben Tre (*)	2	x	10	New construction, synchronized with scale and progress of off-shore wind power sources in the Southern Region. Line length, cross section, and direction will be made accurate during project implementation depending on actual ocean survey results
159	NB 3 - 500 kV Duyen Hai (*)	2	x	10	New construction, synchronized with scale and progress of off-shore wind power sources in the Southern Region. Line length, cross section, and direction will be made accurate during project implementation depending on actual ocean survey results
160	Connecting 220 kV Phu Quoc Electrical Substation	2	x	19	New construction of 220 kV transmission line from 220 kV Phu Quoc Electrical Substation to existing 220 kV Kien Binh - Phuc Quoc transmission line, synchronized with 220 kV Phu Quoc Electrical Substation
161	Estimation of electrical production from renewable			500	New construction, accommodating renewable energy

	energy				
162	Reservation for renovation and construction of 220 kV transmission line			450	Reserved for load growth and electricity source development
II	**2031 - 2035 period**				
1	Hong Liem - 500 kV Hong Phong (*)	2	x	6	New construction, accommodating production of renewable energy sources
2	Da Lat - 220 kV Da Nhim Switching Station	2	x	30	New construction
3	Increase of load capacity of Di Linh - Bao Loc	2	x	34	Renovation, increase of load capacity
4	220 kV Ninh Thuan 1 - 500 kV Ninh Thuan 1 (*)	2	x	15	New construction, accommodating production of renewable energy sources
5	220 kV Ninh Thuan 2 - 500 kV Ninh Thuan 1 (*)	2	x	15	New construction, accommodating production of renewable energy sources
6	220 kV Ninh Thuan 3 - 500 kV Ninh Thuan 2 (*)	2	x	15	New construction, accommodating production of renewable energy sources
7	Tan Chau 1 - Tan Bien (*)	2	x	16	New construction, synchronized depending on scale and progress of electricity sources in the area
8	Ben Cau - 500 kV Tay Ninh 1	2	x	12	New construction
9	Hon Quan - into Binh Long - Chon Thanh	2	x	4	New construction
10	220 kV Binh Phuoc 1 - 500 kV Loc Ninh (*)	2	x	15	New construction, accommodating production of renewable energy sources
11	220 kV Binh Phuoc 2 - 500 kV Loc Ninh (*)	2	x	15	New construction, accommodating production of renewable energy sources
12	Phu My City - into Phu My - Ba Ria	4	x	2	Renovation, increase of load capacity
13	Phu My City - 500 kV Bac Chau Duc	2	x	30	New construction

14	500 kV Long Dien - Vung Tau 2	2	x	13	New construction, connecting 500 kV Long Dien Electrical Substation
15	500 kV Long Dien - into Phu My City - Vung Tau	2	x	10	New construction, connecting 500 kV Long Dien Electrical Substation
16	500 kV Long Dien - Phuoc Thuan (Dat Do)	2	x	16	New construction, connecting 500 kV Long Dien Electrical Substation
17	Vung Tau 2 - Vung Tau	2	x	9	New construction
18	Increase of load capacity of Tri An Hydroelectricity - 500 kV Song May	1	x	24	Renovation, increase of load capacity, accommodating local electricity sources
19	Binh Chanh 2 - into Duc Hoa - Phu Lam	4	x	2	New construction, proposed flexible diagrams for 220 kV Binh Chanh 2 Electrical Substation
20	500 kV Da Phuoc - Binh Chanh 2	2	x	10	New construction, connecting 500 kV Da Phuoc Electrical Substation. 220 kV Binh Chanh 2 Electrical Substation with flexible diagrams
21	500 kV Da Phuoc - Binh Chanh	2	x	9	New construction, connecting 500 kV Da Phuoc Electrical Substation, consideration for connection of 220 KV District 8 Electrical Substation to 500 kV Phu Lam Electrical Substation
22	500 kV Da Phuoc - Dam Sen	2	x	22	New construction, connecting 500 kV Da Phuoc Electrical Substation; consideration for separate operation of busbar of 220 kV Ba Queo Electrical Substation to limit short circuit current
23	Phase 2 Hiep Phuoc LNG - Binh Chanh	2	x	13	Synchronized with Phase 2 Hiep Phuoc LNG Power Plant
24	Hoc Mon 2 - into Cau Bong - Binh Chanh 1	4	x	1	New construction
25	500 kV Thu Duc City - into Hi-tech Zone - District 9	4	x	5	New construction
26	Increase of load capacity of 220 KV Cat Lai - Thu Duc transmission line	2	x	13	Renovation, increase of load capacity, synchronized with 500 kV Electrical Substation of Thu Duc City

27	500 kV Thu Duc City - Cat Lai transition on 220 kV Thu Duc Substation (separating Cat Lai - Thu Duc)	2	x	5	New construction, connecting 500 kV Electrical Substation of Thu Duc City, changing connection scheme to limit short circuit; choosing conductors with cross section appropriate to load capacity of 220 KV Cat Lai - Thu Duc transmission line (after renovation)
28	500 kV Binh Duong 2 transition to Ben Cat - Ben Cat 2 and Chon Thanh - Ben Cat 2	4	x	12	New construction, connecting 220 kV side of 500 kV Binh Duong 2 Electrical Substation
29	500 kV Binh Duong 2 - into Ben Cat - Tan Dinh 2	4	x	16	New construction, connecting 220 kV side of 500 kV Binh Duong 2 Electrical Substation
30	Ben Cat 3 - into Ben Cat 2 - 500 kV Binh Duong 2	4	x	4	New construction
31	Increase of load capacity of 220 kV Uyen Hung - 500 kV Tan Dinh transmission line	2	x	16	Renovation, increase of load capacity
32	Bau Bang transition to Chon Thanh - Ben Cat and Chon Thanh - 500 kV Binh Duong 2	4	x	1	New construction, in case 500 kV Binh Duong 2 Electrical Substation enters into operation after 220 kV Bau Bang Substation, structure name will be “Bàu Bàng - Rẽ Chơn Thành - Bến Cát và Chơn Thành - Bến Cát 2” (Bau Bang - into Chon Thanh - Ben Cat and Chon Thanh - Ben Cat 2)
33	Long Thanh 2 Industrial Park - into Xuan Loc - Long Thanh	4	x	1	New construction
34	Can Giuoc - into 500 kV Long An - Nam Hiep Phuoc	4	x	3	New construction
35	500 kV Long An 2 - into Long An - Tan Phuoc	4	x	10	New construction
36	500 kV Tien Giang - into Vinh Long - Sa Dec	4	x	15	New construction
37	500 kV Tieng Giang - into Cai Lay - Cao Lanh	4	x	4	New construction

38	500 kV Ben Tre - Ba Tri	2	x	16	New construction, accommodating renewable energy
39	500 kV Dong Thap - into Hong Ngu - Lap Vo	4	x	12	New construction, connecting 500 kV Dong Thap Electrical Substation
40	500 kV An Giang - into Kien Binh - Rach Gia	2	x	26	New construction, connecting 500 kV An Giang Electrical Substation
41	500 kV An Giang - Chau Thanh (An Giang)	4	x	28	New construction, connecting 500 kV An Giang Electrical Substation
42	500 kV An Giang - into Chau Doc - Kien Binh	4	x	40	New construction, connecting 500 kV An Giang Electrical Substation
43	Vi Thanh - into O Mon - Ca Mau Thermal Power	4	x	12	New construction
44	Vinh Quang - into Rach Gia - Kien Binh	2	x	1	New construction
45	Bac Lieu 4 - 500 kV Bac Lieu (*)	2	x	10	New construction, synchronized depending on scale and progress of electricity sources in the area
46	Soc Trang - 500 kV Long Phu	2	x	35	New construction, accommodating production of renewable energy
47	Increase of load capacity of Soc Trang - Chau Thanh (Hau Giang)	2	x	50	Renovation, increase of load capacity, accommodating renewable energy
48	Increase of load capacity of Bac Lieu - Soc Trang	2	x	42	Renovation, increase of load capacity, accommodating renewable energy
49	Ca Mau 4 - into Ca Mau 1 Wind Power - Ca Mau	2	x	7	New construction, synchronized depending on scale and progress of electricity sources in the area
50	Estimation of electrical production from renewable energy			500	New construction, accommodating production of renewable energy
51	Reservation for renovation, construction of 220 kV transmission line			500	Reserved for load growth and electricity source development

Note:

1. For substations

- The lists of substations do not include step-up substations of electricity source projects. During preparation of each phase, scale of substations will be selected depending on load and service demand.

(*) Schedule, scale, and location of electrical substations will be made accurate during project preparation and dependent on source development potentials and actual grid configurations.

2. For transmission lines

- Length of transmission line will be specified during investment preparation phase.

(*) Schedule and scale of transmission lines will be made accurate during project preparation and dependent on source development potentials and actual grid configurations.

3. In respect of connection to renewable energy sources

Detail connection plans of renewable energy projects must be thoroughly inspected during implementation and amended on the basis of practical conditions (if any) while satisfying economic effectiveness and operating technical standards.