

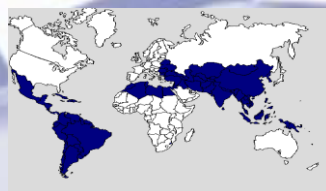


EU Technical Assistance Facility (TAF) for Sustainable Energy

EU TAF Support to Conduct a Strategic Environmental Assessment (SEA) of the PDP VIII

VEPG TECHNICAL WORKING GROUP#5 ENERGY DATA & STATISTICS 6th MEETING

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Prepared by: John Soussan, Nguyen Thi Xuan Thang, Tuan Nguyen Anh
Romeo Pacudan and Sumit Pokhrel



Background and Context

- ❖ The assignment's purpose was to support the SEA of PDP 8 in Vietnam
- ❖ Time of major change to power sector
- ❖ The counterparts, EREA and IE, clear on what support was needed and experienced in SEAs for PDPs
- ❖ Support in 2 areas:
 - Issues included in past SEAs but where capacities needed strengthening
 - Issues that were new to SEAs for PDPs in Vietnam



What is an SEA and why include one in PDP 8?



- ❖ Legal requirement under LEP 2005 & 2014 and 2017 Law on Planning
- ❖ Improves strategic planning, including transparency
- ❖ Vehicle for ensuring social and environmental impacts assessed
- ❖ Basis for moving to a full economic cost planning process
- ❖ Structured process of stakeholder consultation

Methodology Development 1

1. **Strengthening existing capacities**

- ❖ Focus on air pollution impacts:
 - Assessment of emissions from thermal power plants
 - Social value of carbon
 - Human health impacts
- ❖ Refined assessment of transmission line impacts
- ❖ Strengthened the consultation process in the SEA



Methodology Development 2

?

2. New Methodology Areas

- ❖ Challenge as sites and size of investments in the plan not known so need generic method
- ❖ Focus on Renewable Energy Impacts, especially land for terrestrial wind and solar
 - Floating solar
 - Offshore wind power
 - Small-scale hydropower
 - Impacts of terrestrial solar and wind power



Capacity Development

Capacity Development

- ❖ Covid crisis meant change to remote support and online modules

Manual for supervising and reviewing an SEA

- ❖ Structured 7 step review process with measurable criteria



The Results: Draft PDP 8 & SEA Reports

1. The draft PDP 8 and SEA reports have been published and show the impacts of the assignment
2. THE KEY: the identification of power generation scenarios in the plan is based on a **full economic cost** approach that internalizes the values of social and environmental impacts
3. A first, not just for Vietnam but for the region and much of the world
4. Result is a dramatic growth of renewables and major reduction in predicted expansion of coal

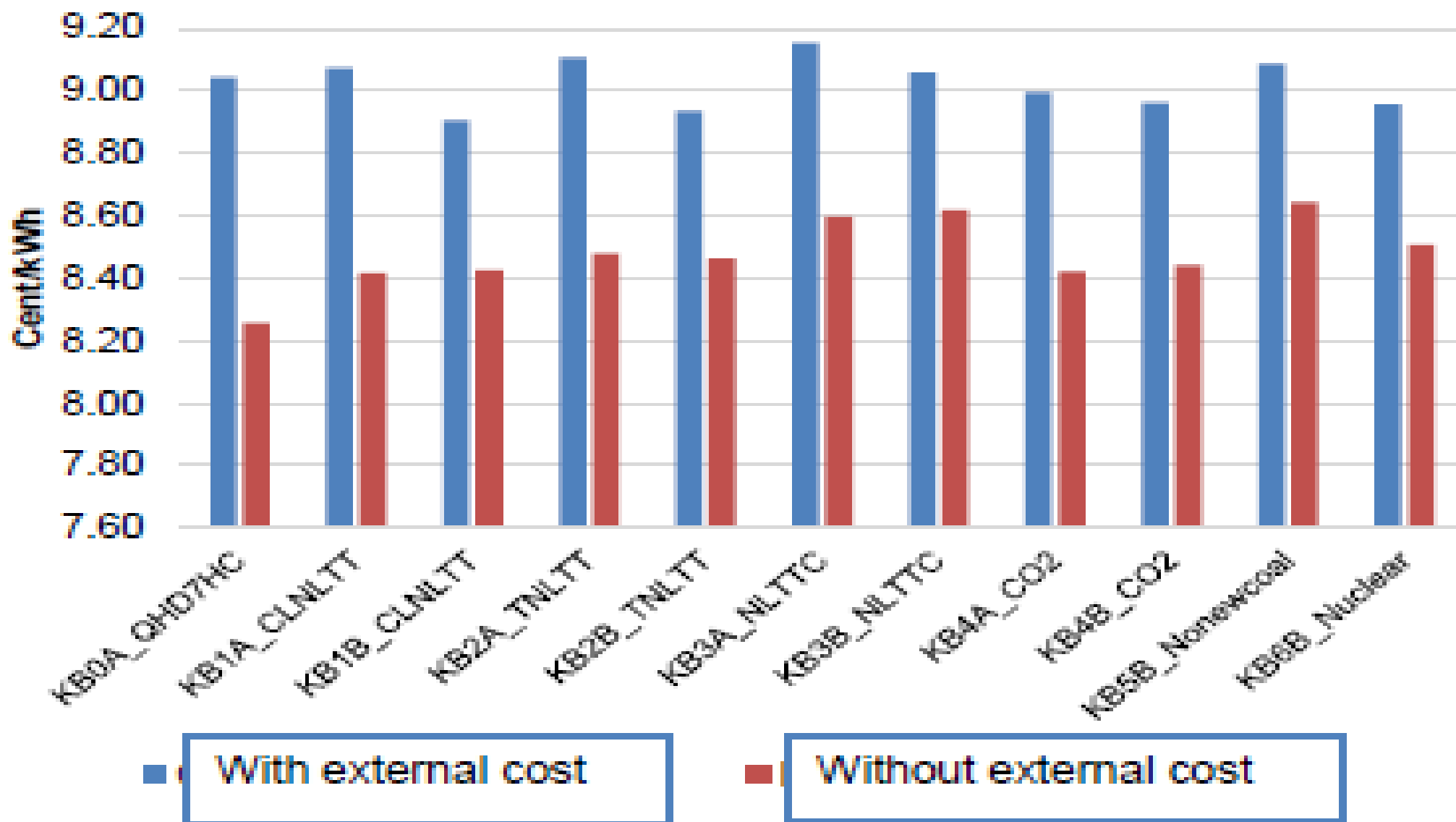


Comparing PDP 8 and PDP 7

Generation Mix for 2030 of Vietnam's Power Development Plans (Megawatts)

	PDP 7 (2011)	RPDP 7 (2016)	Draft PDP 8 (2020)
Generation capacity 2030	137,388	129,508	136,700
Coal	77,160	55,252	37,200
Natural gas and oil	17,465	19,078	28,500
Hydropower	21,125	21,871	24,700
Other renewable energy	4,829	27,199	40,600
Nuclear	10,700	4,600	0
Imported	6,109	1,508	5,700

Average electricity production costs in 2045



Conclusions

- ❖ Successful outcomes despite challenges resulting from Covid crisis
- ❖ Flexible and demand responsive approach
- ❖ Very high appreciation expressed by EREA and IE
- ❖ Number of methodological and analytical innovations that have international significance
- ❖ Online modules likewise important for future capacity development work
- ❖ Results can be seen in the draft PDP 7 and SEA reports





EU Technical Assistance Facility for Sustainable Energy

Prof. Dr. Thierry LEFEVRE

Brussels Project Office

Avenue des Arts 24

1000 Brussels

Tel.: +32 (0)2 416 17 00 (direct)

Tel.: +32 (0)2 416 17 05 (direct)

Fax: +32 (0)2 416 17 00

E-mail: t.lefevre@ceerd.net

Thank you for your kind attention

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