

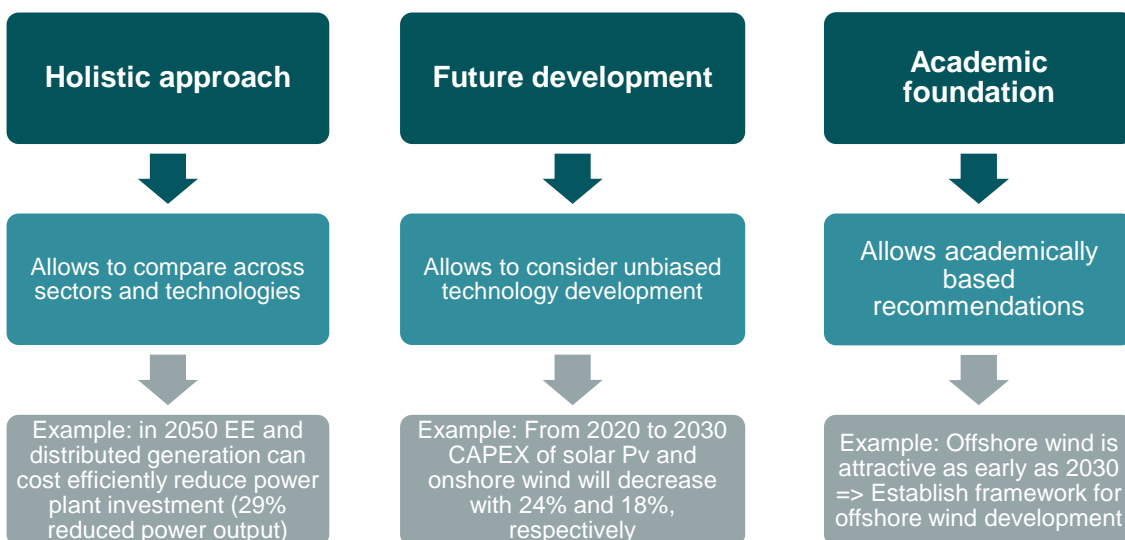
# Vietnam Energy Outlook Report 2019

## Key findings and recommendations

Jakob Stenby Lundsager, Long Term Advisor  
Danish Energy Partnership Programme in Vietnam

**60+**  
SAVE ENERGY  
SAVE EARTH

### Why is energy system modelling essential for energy policy? *The EOR19 connects academic analysis and energy policy making*



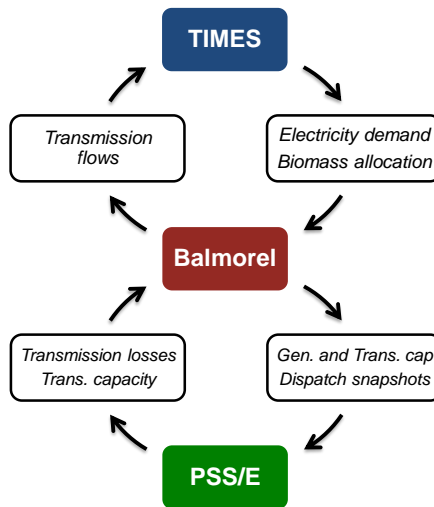
## What is the Vietnam Energy Outlook Report 2019?

5 long term scenarios exploring least-cost development paths for the energy system

- 18 recommendations
- 5 scenarios
- 2020 to 2050
- Full energy system
- Extensive model setup
- Least-cost optimisation
- Starting point in energy statistics and RPDP7
- Technology costs and fuel prices projected



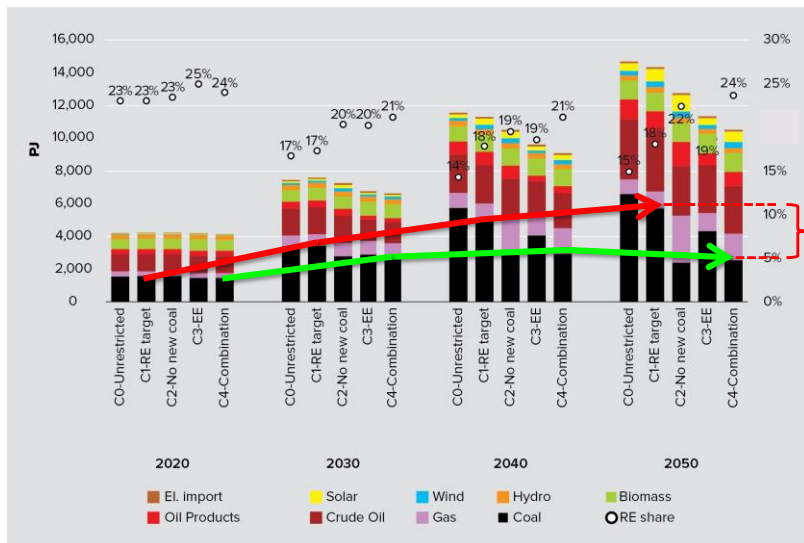
6 power system regions



3 models linked

## Coal in the energy mix

Coal consumption continue to increase but trend can be reversed



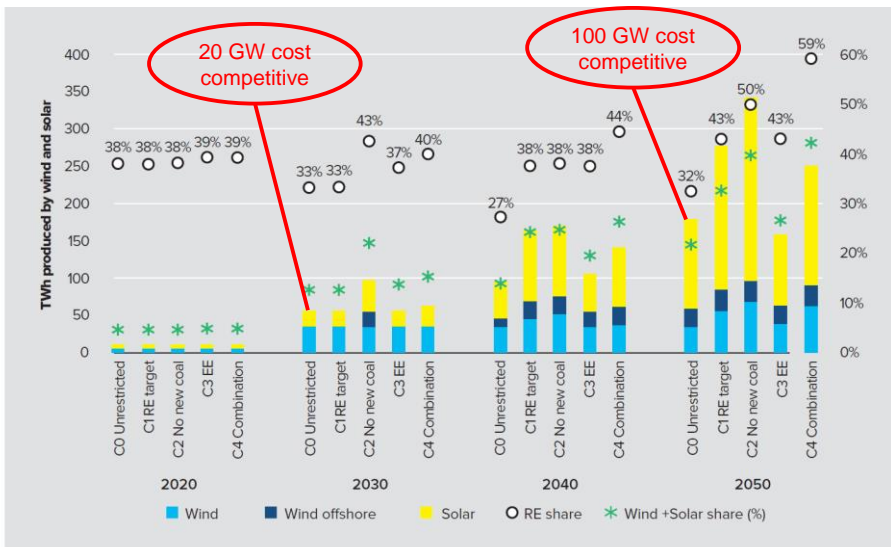
Total primary energy supply and RE share in total primary energy

RE + EE + LNG can reverse the coal consumption trend

**RECOMMENDATION**  
Early actions to reduce the coal demand

## Wind and solar in the energy mix

Wind and solar is the future



Until 2030:  
1-2 GW/year solar and  
1 GW/year wind

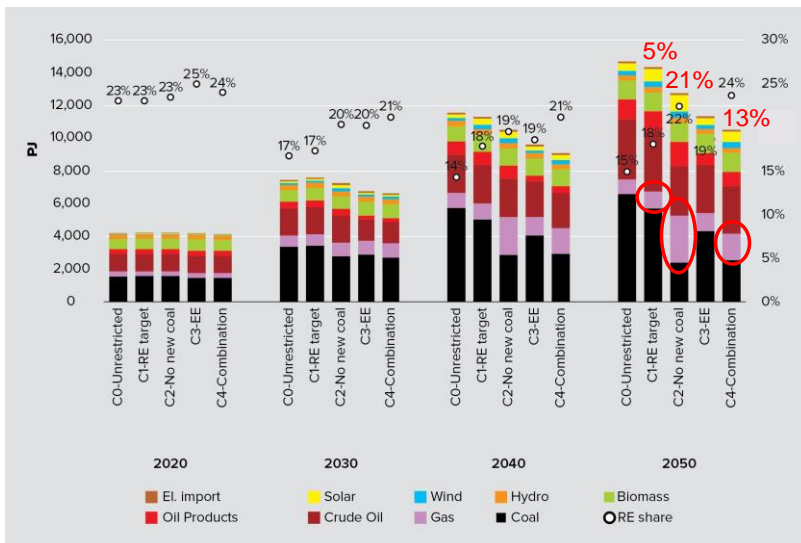


**RECOMMENDATION**  
Stable, simple,  
transparent and  
competitive framework  
for RE

Electricity generation from wind and solar together with solar and wind share

## LNG in the energy mix

Coal consumption continue to increase but trend can be reversed



LNG can replace coal in  
the power sector at a  
higher cost but causing  
less environmental  
impact

Total primary energy supply and RE share in total primary energy

## Key take-aways

*Much more can be found the report*

Modelling ensures  
the holistic  
approach

The Outlook is 5  
least cost scenarios  
for the energy  
system

Coal consumption  
increase but the  
trend can be  
reversed

Wind and solar is  
competetive with  
stable and  
transparent  
framework in place

LNG can replace  
coal at a higher cost  
but causin less  
environmental  
impact

**Thank you**  
◆  
**Xin cảm ơn**