

ASEAN Outlook for Zero Carbon Energy

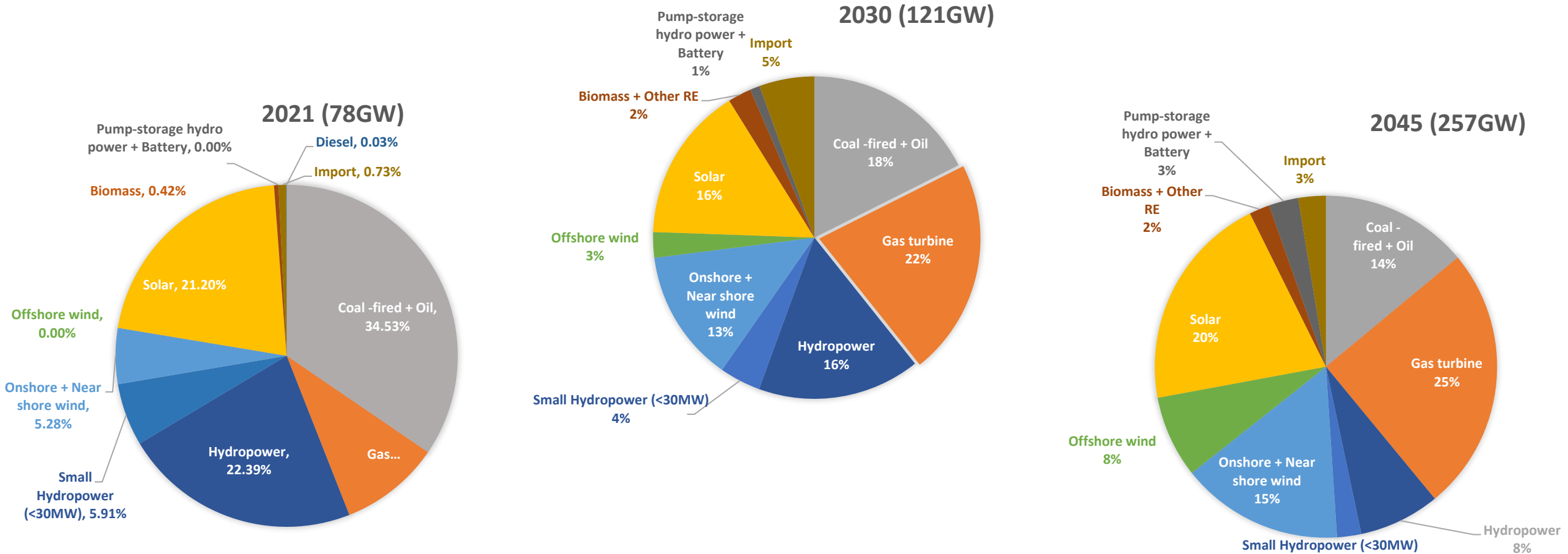
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Energy transition in Viet Nam- Overview

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GIZ, Energy Support Program

Viet Nam Electricity Sector – Draft PDP8

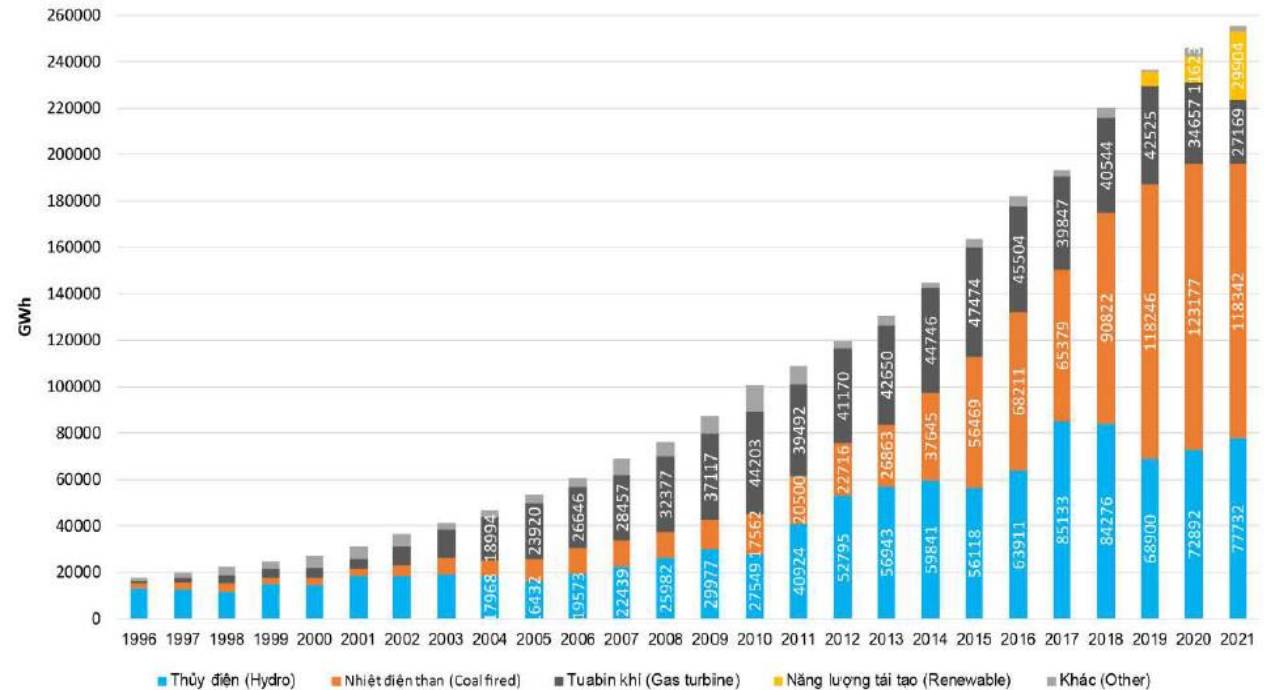


Status of the Energy Transition

- Carbon emission in Viet Nam is 600 million tons: 60% from energy sector; 10% from industry sector, 20% from agriculture and 10% from waste.
- End of 2021, installed capacity of RE in the power generation mix: 32.8% (55.21% including hydro power)
- Role of fossil fuels in the mix

CƠ CẤU HỆ THỐNG ĐIỆN 2021 2021 POWER SYSTEM STRUCTURE

BIỂU ĐỒ THÀNH PHẦN HUY ĐỘNG NGUỒN CÁC NĂM
Power production by fuel types for 25 years (GWh)



* Số liệu tháng 12 là số ước (cập nhật đến ngày 19/12/2021) - Data of December is estimated (updated to 19/12/2021)

Main achievement of the ET

Available:

- Politburo's Resolution N0 55
- Environment protection Law 2020
- Regulatory for RE/EE: FIT, VNEEP
- Road map for SG, retail market
- Acceptance to RE

On-going:

- Revision of the electricity law; investment law, bidding law; DPPA
- Green financing mechanism

Future:

- RE Law
- Revision of EE Law
- Innovative regulatory for storage and battery;
- Identify approach to further deploy clean energy
- Legal framework for green mobility

Challenges and barriers of the ET

- Very complex and required high and long-term commitment of the Government; Long term strategy/ policy for coal phasing out, training and education
- To reach net zero by 2050, installed capacity RE share must account for 80-90%(VEA) (2021: 32%/55%) → how to reach clean, affordable and reliable energy for VN and sustainability of the economy?
- Close electricity network of Viet Nam
- EE measures to be strengthened (energy cost account for 60% of production cost in many sectors)
- Financial incentives for system and source/ supply

Conclusion/ recommendations

- Role model from public sector: electricity car/ RTS in the public sector
- High level of inter-ministerial coordination and monitoring, on time adjustments
→ national committee for ET shall be set up
- Long term policy, especially for hi-technology and technologies which requires huge investment
- Regional electricity network
- Regional policy dialogue on ET