Vietnam Wind Power 2021, day 2, Business session 1B Risk Mitigation



Wind Energy Development in Vietnam: the policy risk

Minh Ha-Duong Research Director Vietnam Initiative for Energy Transition

Email: minh.haduong@vietse.vn



Hanoi, Thursday, December 2, 2021



Accelerate the Transition of Vietnam toward a Carbon-neutral Society





Offshore wind studies conducted by VIET





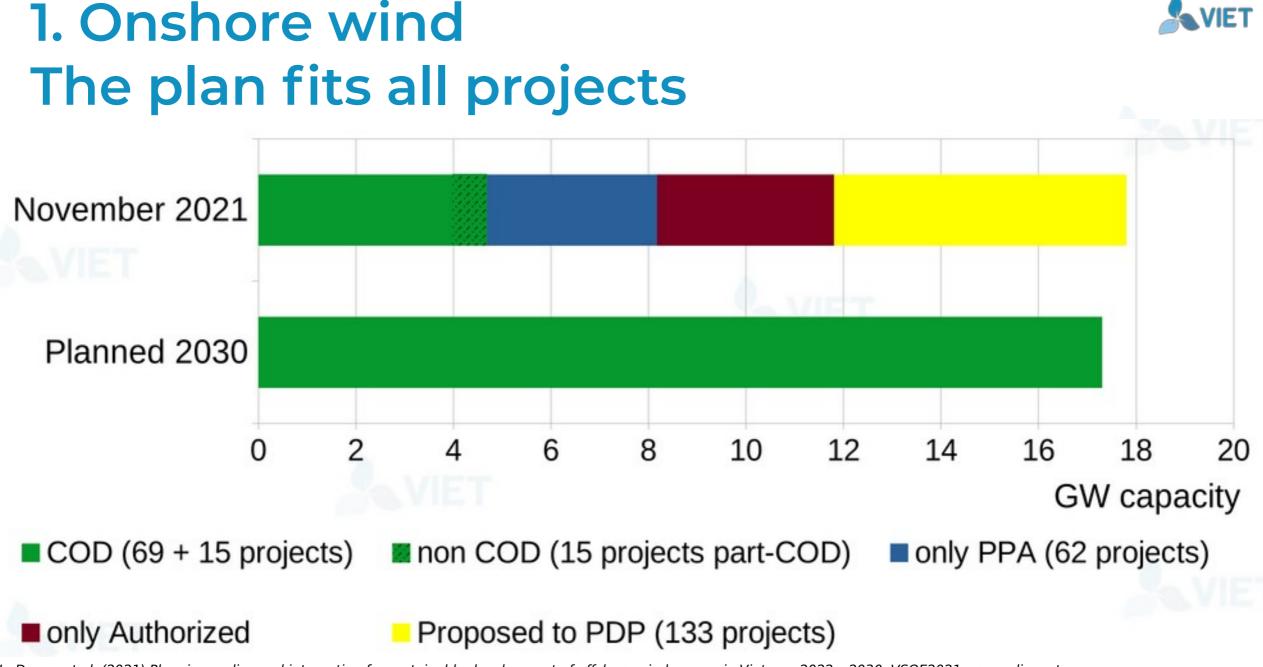
Mitigating the wind projects policy risk

Onshore: locate away from the crowd Offshore: increase the plan goals





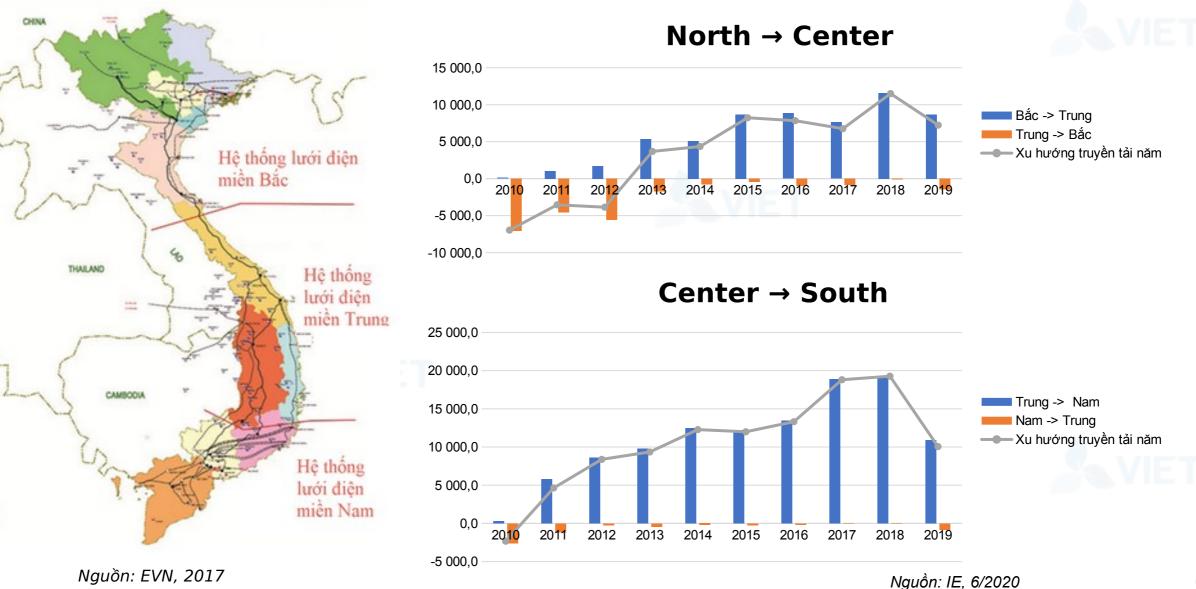




Ha-Duong et al. (2021) Planning, policy and integration for sustainable development of offshore wind energy in Vietnam 2022 – 2030. VSOE2021 proceedings, to appear. Letter 10052/BCT-DL, Letter 6742/EVN-TTD



Now: power flows North \rightarrow Center \rightarrow South





Future: Too much electricity in the Center

	2020	2025	2030
North→ Center	3.0 TWh	3.5 TWh	0.6 TWh
Center→ North	3.8 TWh	6.4 TWh	14.9 TWh
Center→ South	9.9 TWh	15.1 TWh	18.7 TWh
South→ Center		2.0 TWh	6.6 TWh

Source: MOIT presentation at post COP26 PDP8 conference



Curtailment in the Center

Worst case: No transmission upgrade, Sunday of June 2022

In Central Highlands Wind runs at 40% capacity Solar at 60%



In South-Central Variable renewables at 74% capacity in Ninh Thuan, Binh Thuan They run at 44% in Binh Dinh, Phu Yen, Khanh Hoa

VIET

Source: VIET (2020) Ability to release capacity for wind power and solar power up to 2022. RR/04 - VIET06.2020

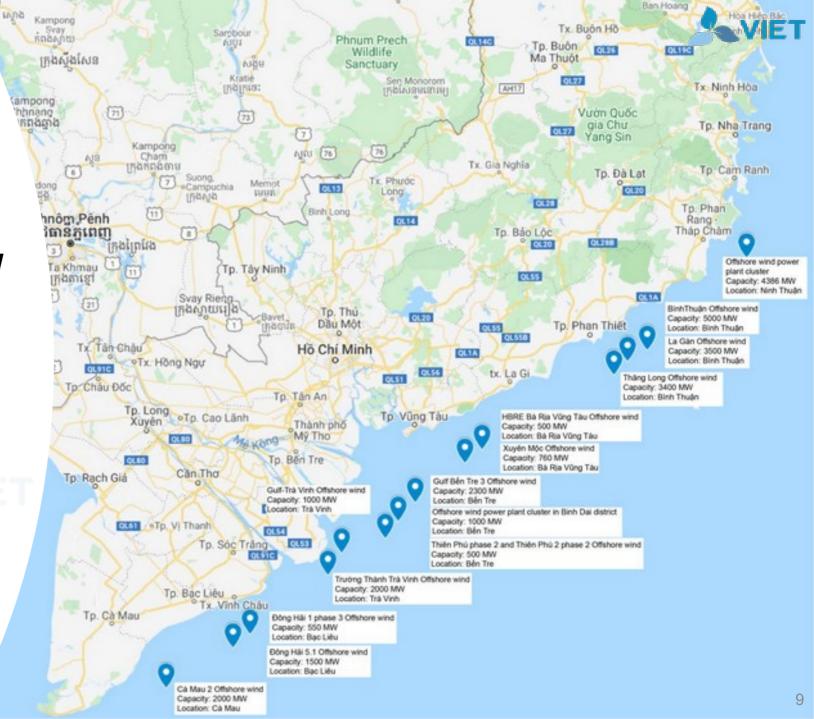
2. Offshore: the oversupply

14 projects here for 28,4 GW

0

VS.

November PDP8 goals 4 GW by 2030 36 GW by 2045



Offshore wind : the policy risks





- 1) Unclear procedures and uncertainty, no proven route to market yet
- 2) Low investor confidence due to unclear commercial conditions and long term policy goals
- 3) Electricity grid capacity insufficient for large wind farms
- 4) Capacity expansion based on new fossil fuel power plants





Political YES to adopt Offshore Wind Energy in Vietnam

Resolution 36-NQ/TW

Vietnam's Marine Economy Sustainable Development Strategy to 2030 with a vision to 2045 Resolution 55-NQ/TW National Energy Development Strategy to 2030, with a vision to 2045

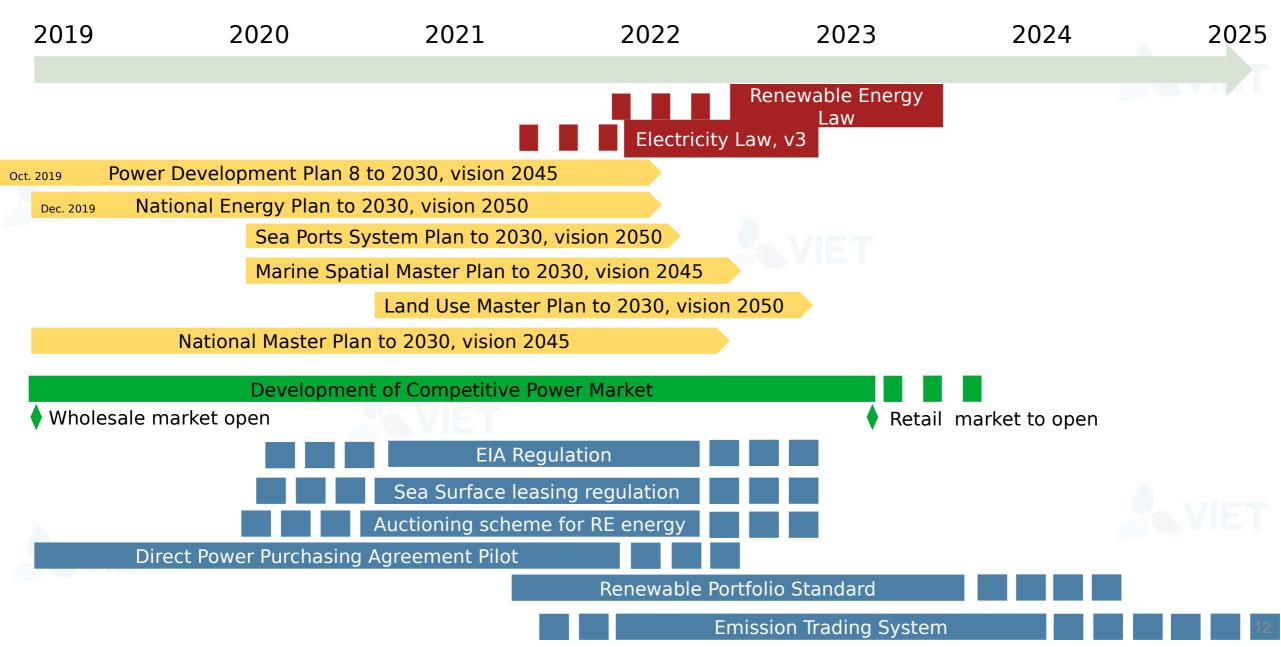
2020

Decision 203/QĐ-TTg

Etstablish the National Steering Committee on implementation of the Vietnam's Marine Economy Sustainable Development Strategy to 2030 with a vision to 2045 "Develop supporting policies and breakthrough mechanisms for the development of offshore wind power in association with the implementation of the Vietnam's Marine Economy Sustainable Development Strategy"

(Source: Resolution 55-NQ/TW)

But policy support remains in the work



Roadmap to reach 10GW of Offshore wind (2023-2030)

Source: Phuong H. Nguyen, Van Nguyen Dinh et al. (VSOE 2021) Options for zonation and grid integration of offshore wind in Vietnam.

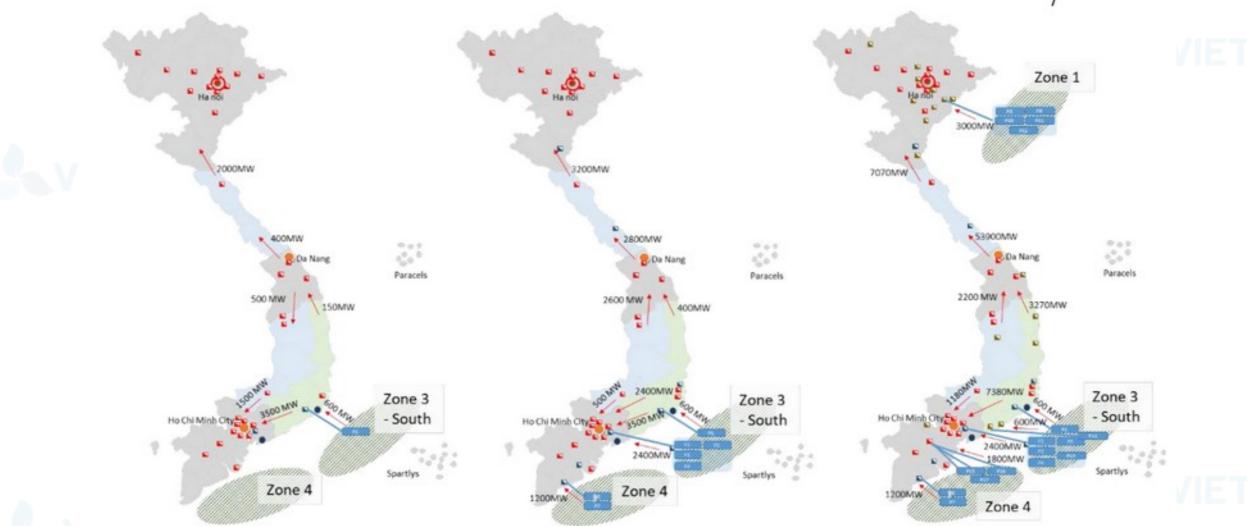
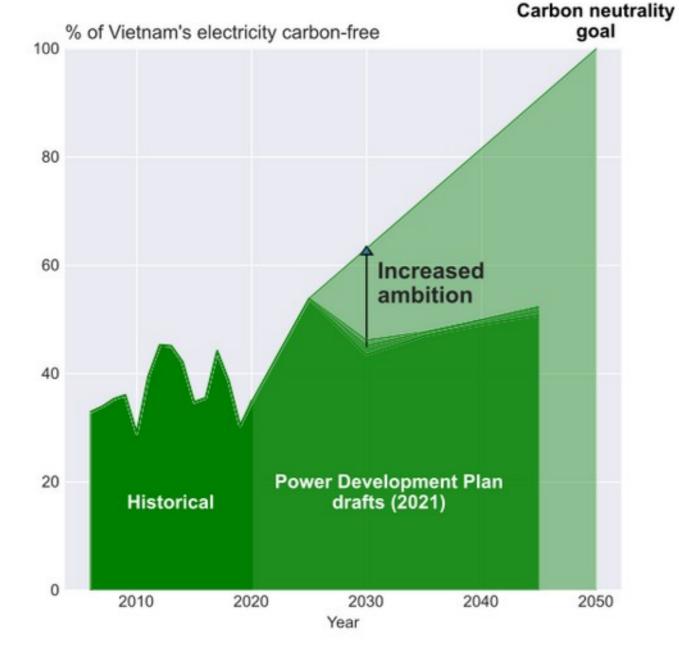


Fig. 3. Load flow snapshot in 2023, 2025 and 2030 (from left to right) - Cases of high renewable sources including max capacity from OWFs. VIET

Conclusion: increase 2030 ambition in PDP8A?



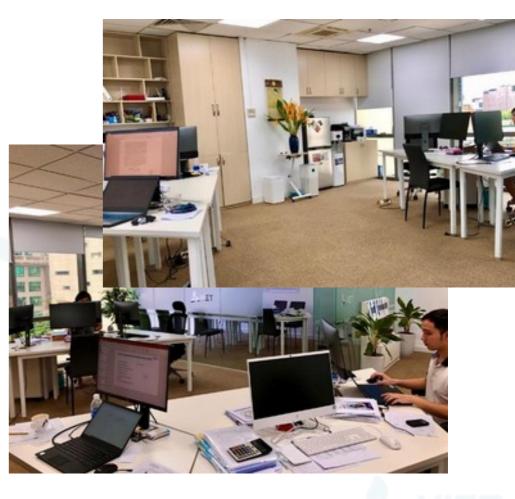






Thank you for your attention!







Vietnam Initiative for Energy Transition 7 Floor, 18 Ly Thuong Kiet Str. | Hanoi |100000 T : +84.243.204.5554 | M: +84.945.336.677 | info@vietse.vn | <u>VIETSE.VN</u> | <u>Facebook</u> | <u>LinkeIn</u>