

GWEC – Vietnam offshore wind market overview

November 2022



Vietnam wind market overview

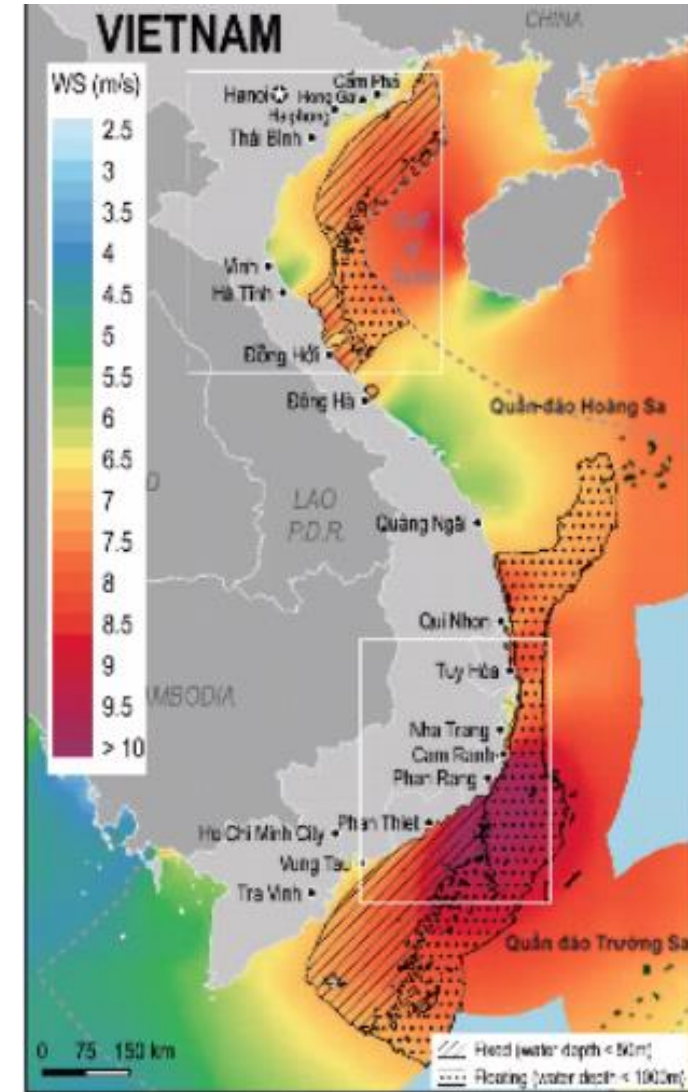
- Vietnam currently have a system of 79GW installed capacity, in which 20GW are wind and solar.
- 4GW of onshore and nearshore wind projects COD by 31 Oct 2021
- 4GW of onshore and nearshore wind projects have PPA but missed the FIT deadline
- Local developers dominate the ONW market, while big international developers have more opportunities in the OFW market
- PDP 8 set a target for having 21GW of onshore and 7GW of offshore wind projects by 2030

Bảng 8: Cân bằng công suất phương án điều hành tháng 11/2022 (MW)

Chỉ tiêu/năm	2025	2030	2035	2040	2045	2050
Nhu cầu toàn quốc (Pmax)	61.357	93.343	128.791	162.904	189.917	209.332
Tổng công suất đặt toàn quốc (*)	107.999	156.444	235.759	339.189	445.612	538.429
Tổng công suất đặt (không tính ĐMT mái nhà, nguồn cấp phụ tải riêng, nguồn đồng phát)	98.794	145.989	221.704	317.131	416.381	501.608
NĐ than (**)	30.067	30.127	23.137	15.337	3.635	0
NĐ than đốt kèm sinh khối/amoniac	0	0	6.990	14.790	18.642	0
NĐ than chuyển hoàn toàn sang sinh khối/amoniac	0	0	0	0	6.990	25.632
TBKHH+NĐ khí trong nước	9.176	14.930	7.900	7.900	7.900	7.900
NĐ khí nội chuyển LNG kèm hydro	0	0	7.030	7.030	0	0
NĐ khí nội chuyển hydro hoàn toàn	0	0	0	0	7.030	7.030
TBKHH sử dụng LNG mới	3.500	24.500	28.500	7.500	0	0
TBKHH LNG đốt kèm hydro	0	0	3.500	24.500	28.500	7.500
TBKHH LNG chuyển hydro hoàn toàn	0	0	0	0	3.500	24.500
Nguồn điện linh hoạt	0	300	8.400	22.500	32.400	43.800
NĐ+TBK dầu	1.221	0	0	0	0	0
Thủy điện (cả TD nhỏ)	26.795	28.946	33.654	34.414	35.139	36.016
Điện gió trên bờ, gần bờ	13.616	21.480	30.400	45.100	60.750	66.050
Điện gió ngoài khơi	0	7.000	17.000	42.500	71.500	87.000
Điện mặt trời tập trung	8.736	8.736	34.711	60.408	92.193	136.573
Điện sinh khối, rác và NLTT khác	1.180	2.270	3.290	4.960	5.210	6.015
Thủy điện tích năng và pin lưu trữ	50	2.700	9.450	19.950	31.950	42.550
Nhập khẩu	4.453	5.000	7.742	10.242	11.042	11.042
ĐMT mái nhà	7.755	7.755	10.755	17.558	24.731	32.321
NMND cấp cho phụ tải riêng và đồng phát	1.450	2.700	3.300	4.500	4.500	4.500

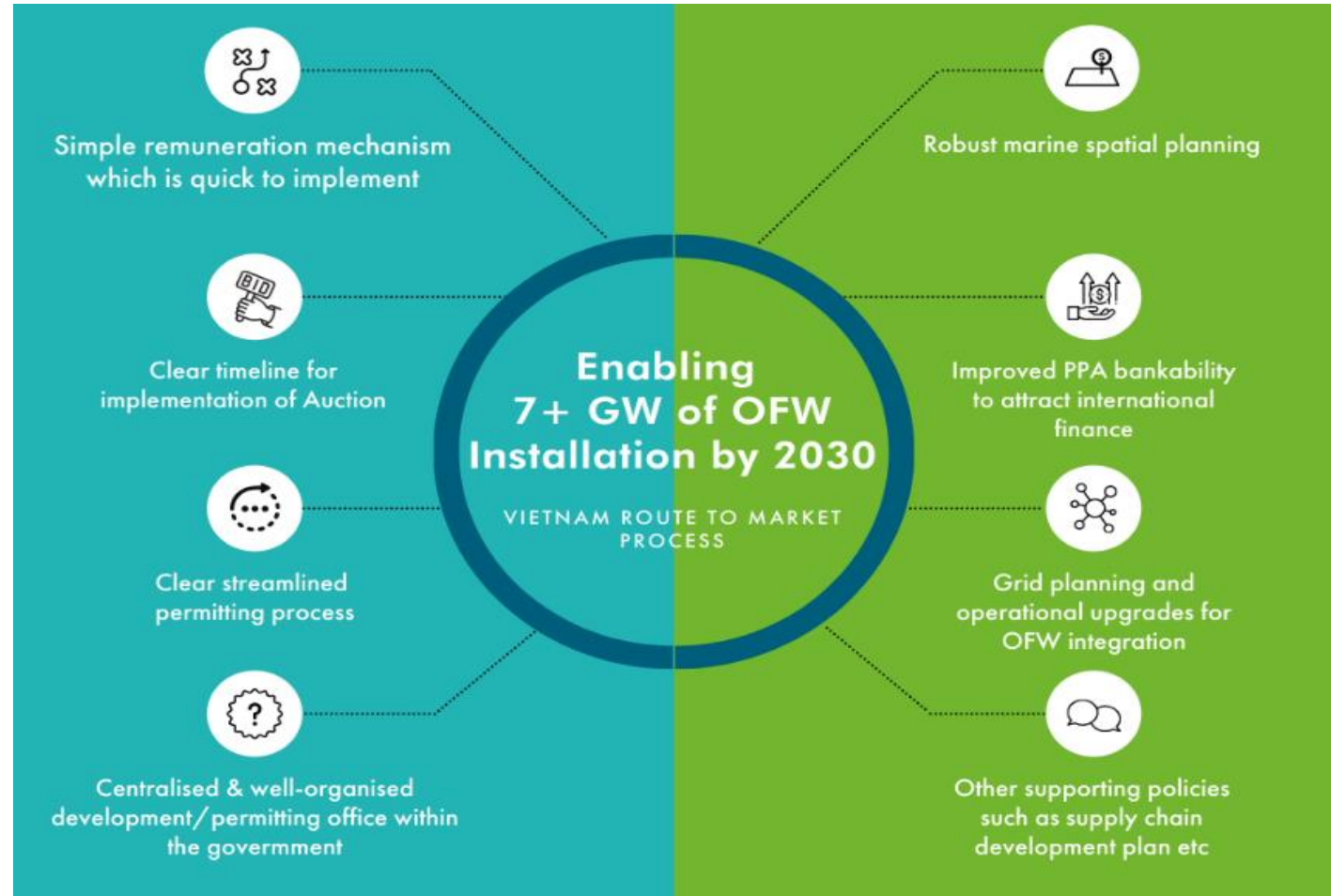
Challenges for Vietnam offshore wind market

- Lack of legal framework: Vietnam need to have a fully developed OFW policy by the end of 2023 in order to have 7 GW of OFW built by 2030.
- PDP8 has not been approved by the government
- Best OFW resources are in the South, while the electricity demand will increase faster in the North in the next 10 years.
- Vietnam grid system is quite weak. Big grid upgrades are needed in order to absorb all new OFW capacity
- OFW is a new industry in Vietnam. There is a lot of education and training needs for both government and business communities to fully understand OFW.
- Vietnam needs international finance in order to build 7GW of OFW by 2030



Route to Market for OFW in Vietnam

- GWEC has published a report about a route to market for OFW in Vietnam in June 2022. The report can be found here: <https://gwec.net/route-to-market-for-offshore-wind-development-in-vietnam-position-paper/>



Thank you!

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