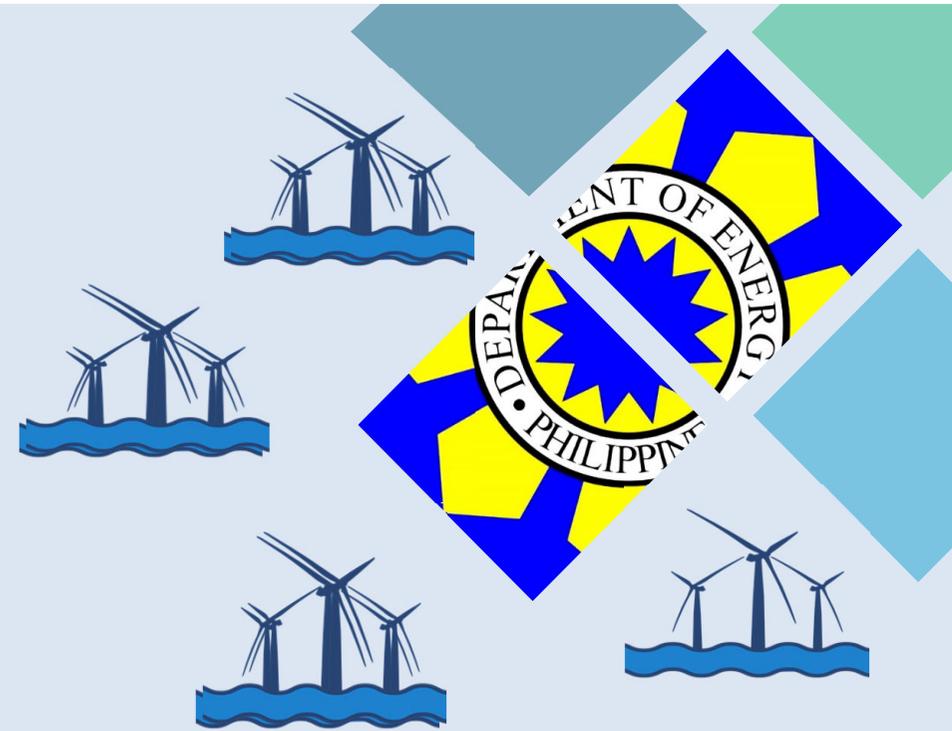


OFFSHORE WIND DEVELOPMENT IN THE PHILIPPINES



MARISSA P. CEREZO

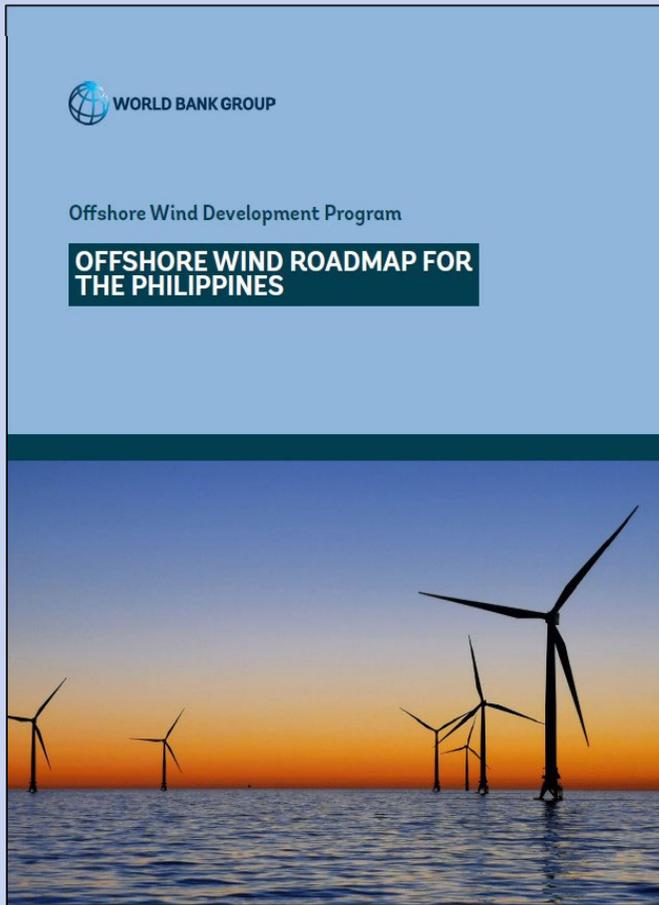
Director
Renewable Energy Management Bureau



GHSDUWP HQ W#R I#HQ HUJ \
Empowering the Filipinos



S j j w l s v i \$ [m h \$ i z i p o t q i r x \$ s e h q e t



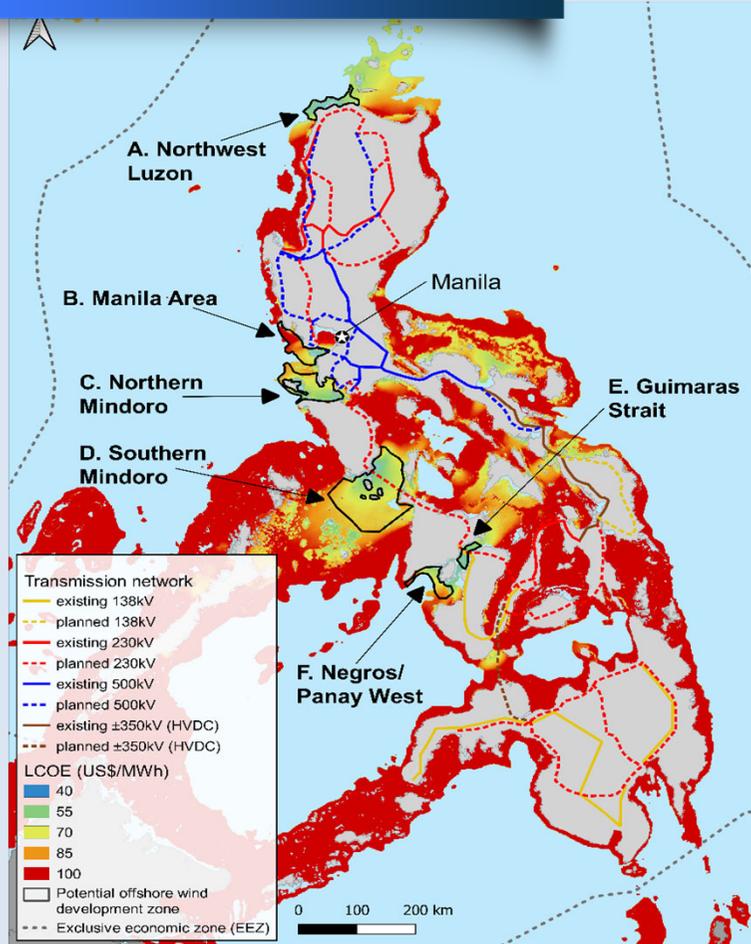
1. **Developed in partnership with the World Bank Group and Energy Sector Management Assistance Program (ESMAP)**
2. **Launched 20 April 2022**
3. **Unveiled the following:**
 - **Philippines Offshore Wind Potential**
 - **Scenarios for Development**
 - **Challenges and Opportunities for Developing Offshore Wind**
 - **Recommendations for the Philippines**



G H S D U W P H Q W # R I # Q H U J \\
Empowering the Filipinos



OSW Potential



178 GW of OSW Potential

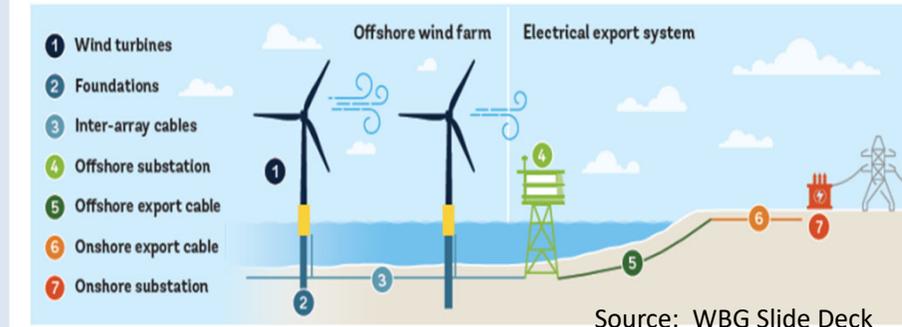
(18 GW Fixed and 160 GW Floating)

Six (6) Potential OSW Development Zones identified:

Potential Development Zone	Type	Capacity
A: Northwest Luzon	Floating	2 to 5 GW
B: Manila area	Fixed and floating	0 to 3 GW
C: Northern Mindoro	Floating	3 to 10 GW
D: Southern Mindoro	Floating	20 to 36 GW
E: Guimaras Strait	Fixed	0 to 1 GW
F: Negros / Panay area	Floating	2 to 3 GW



Offshore Wind Farm



1. Permitting and tenorial instruments

- Robust, transparent, and timely processes for leasing and permitting.

2. Market Support

- Competitive and responsive market system solely for OSW

3. Port Infrastructure

- Suitably sized and strategically located ports are essential for the storage, assembly, construction and operation of OSW farms.

4. Grid Asset Availability

- Extension and upgrades of transmission network and interconnection facilities when and where it is needed.

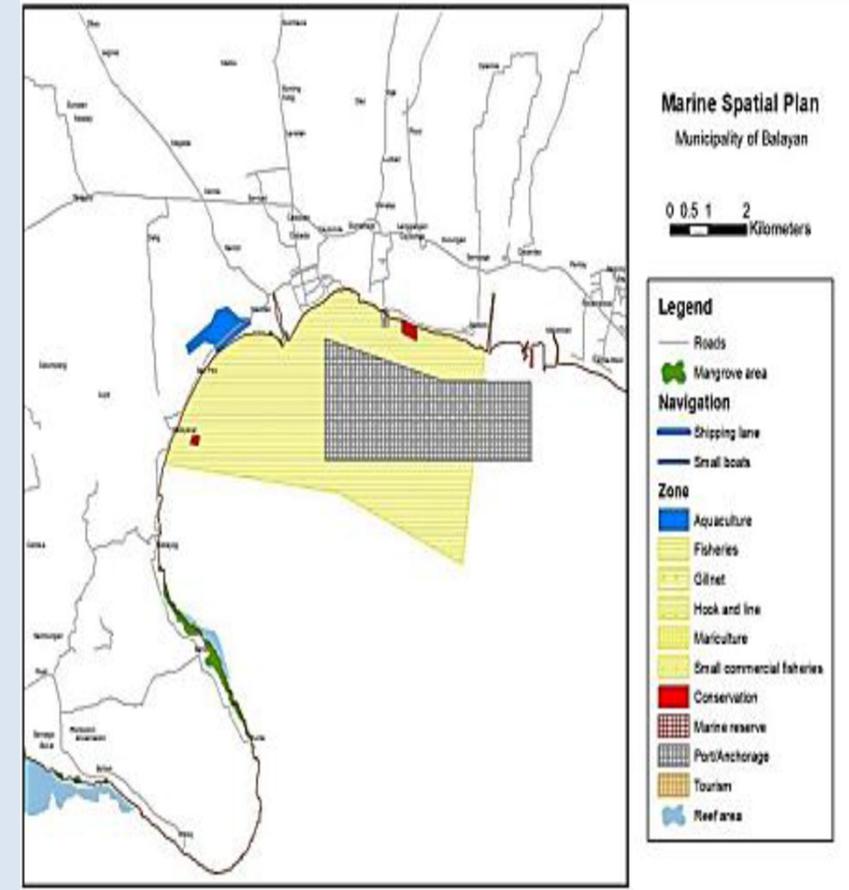


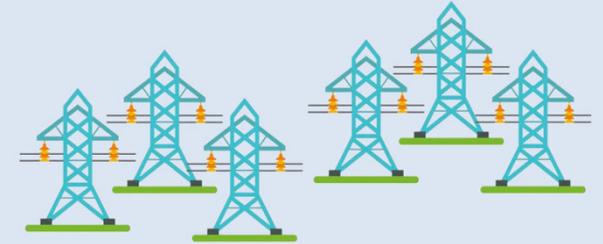
1. Marine Spatial Planning

- ETP TA to assist in identifying areas suitable for OSW Development.
- Avoid potential socio-environmental conflict for the awarded OSW Projects.

2. Permitting and Consenting of OSW Projects

- ETP TA to assist in the development of an efficient permitting process of OSW projects within the framework of EO 21 and in line with international best practices.





3. Grid Infrastructure Readiness

- Grid Integration and Transmission Planning (World Bank Group)
 - ✓ Review of wind speed model estimates and temporal trends
 - ✓ Transmission Grid Modelling:
 - Modelling scenarios of OSW wind buildout to investigate required grid upgrades
 - Infor, strategic planning and development of grid to unlock areas of most favorable OSW resource
- Develop Smart and Green Grid System
 - ✓ Smart and Green Grid Plan by DOE, TransCo and UP NEC
 - ✓ Proposed CREZ Phase II to cover OSW Projects.



4. Port Infrastructure Readiness

- Based on international experience, there are no ready ports for OSW. New ports are built, or existing ports need to be re-purposed;
- ADB to assist in the assessment of the 9 initial identified ports.

5. Capacity Building Program and Competency Mapping

- With assistance from USAID-ESP Intended for government agencies, financing institutions and OSW Developers.



Source: <https://ogvacancies.blogspot.com/2019/04/prefchem.html>



Major RE Investment Policies and Market Development Mechanisms

Green Energy Auctioning Program
+ JHDS,



RA 11234 (EVOSS)

“An Act Establishing the Energy Virtual One-Stop Shop for the Purpose of Streamlining the Permitting Process of Power Generation, Transmission, and Distribution Projects”

100% Foreign Ownership
in RE Projects

Renewable Portfolio Standards (RPS) for On-Grid - mandates load-serving entities to source a minimum percentage of RE in their respective power supply portfolios.

2.52% starting 2023



GHSDUWP HQ W#R I#HQ HUJ \\
Empowering the Filipinos



Wkdqgn# rx\$\$\$



Rizal Drive Corner 34th St.
Bonifacio Global City
Taguig City



(632) 840 2151



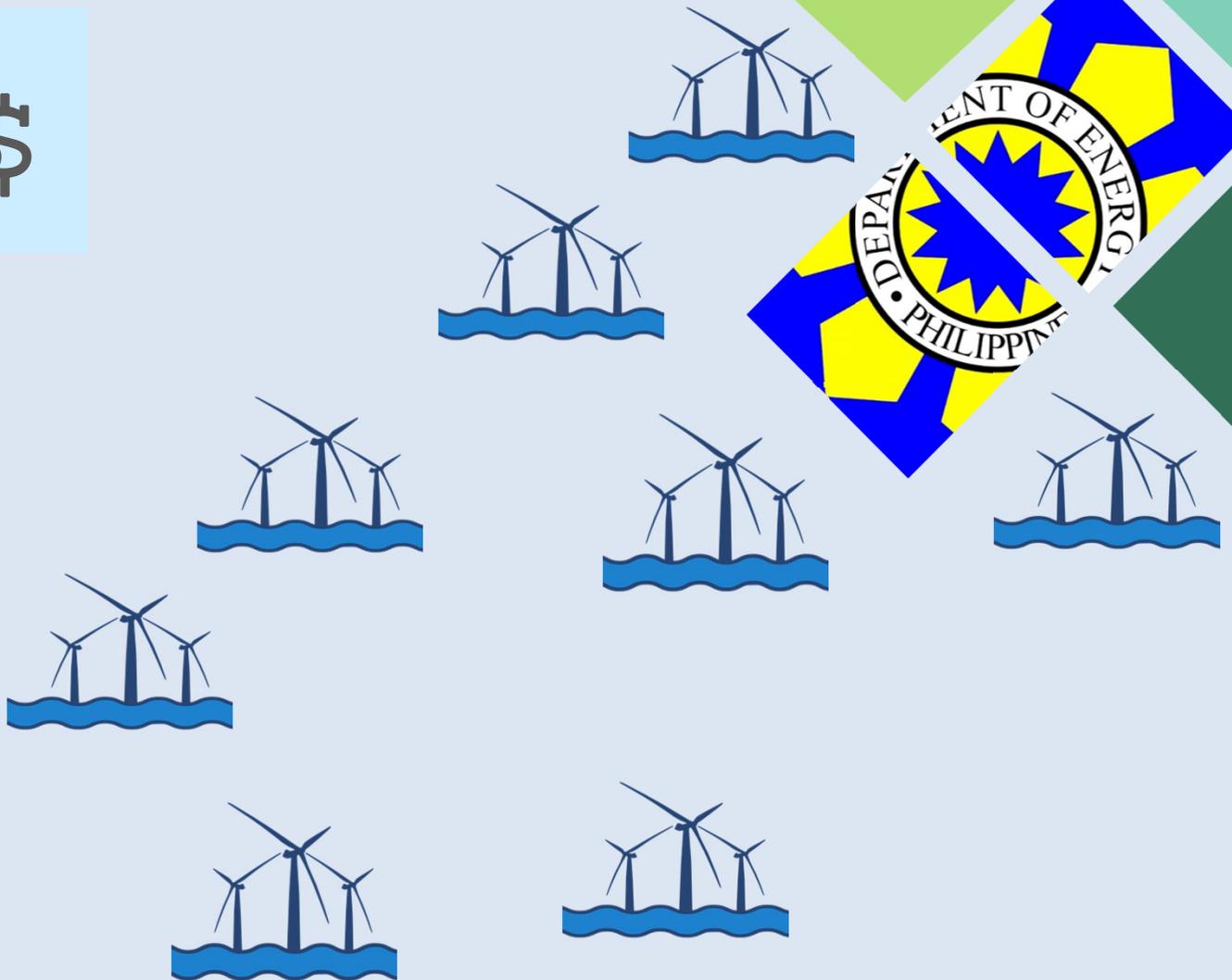
www.doe.gov.ph



[doe.gov.ph](https://www.facebook.com/doe.gov.ph)



[doe_ph](https://twitter.com/doe_ph)



GHSDUWP HQ W#R I#HQ HUJ \
Empowering the Filipinos

