

## Project Objectives



1. To increase offshore wind power capacity in Putian Pinghai Bay to provide adequate electricity supply to the Fujian province.

2. To catalyse offshore wind energy development with technological advances, supporting the reduction of CO2 emissions in the province and country.



## Project Highlights

One of the first projects approved by NDB

Total Cost : 4,634 million RMB  
(USD 727.47 million)

NDB Financing : 1,969 million RMB  
(USD 309.1 million)

Approval Date : November 2016  
Completion Date : December 2021

Sustainable Development Goals: 7 (Clean Energy) & 13 (Climate Action)

## A Strategic Choice



Turbines located in narrow valley



9+ m/s average wind speed



Turbines generate power for approx. 4,000 hours per year

## Impact

### Energy

- 246 MW generated (Target: 250 MW)
- 1,403 million kWh in 2022 (Target: 873 million kWh first year)

### CO<sub>2</sub> Reduction

- 1,020,400 tonnes annually (Target: 869,900 tonnes)



# What Worked Well?



## Local Economy

- 60% of project employees from Putian
- 1,101 jobs created

## Commitment to Clean Energy

- Enhanced offshore wind capabilities in China
- Facilitated transition to cleaner energy sources

## Innovation

- 11 patents granted for tech innovation
- Benchmark for offshore wind projects

## Institutional Support

- Strong backing from the Government of the People's Republic of China
- Supported by local government and project implementation agency

# Areas of Improvement



**Theory of Change (ToC) needed** a clear roadmap linking project activities to national impact



**Exit strategy, operation, maintenance & Decommissioning Plans** to be articulated early on



**Implement capacity building efforts** are envisioned in the planning stage, including utilising earmarked funds



**Enhance Technical Assistance** from the Bank to improve project effectiveness

# Recommendations



Further consolidate technical assistance at the initial stage of the project and better use the Project Preparation Fund for future projects



Design a well-adjusted ToC at appraisal and gradually fine-tune it during project implementation



Improve project implementation support and supervision



Enhance the design of monitoring and evaluation frameworks



Improve the creation of project's knowledge management



Strengthen project exit strategies

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