

## THE NEXT GENERATION OF FLOATING OFFSHORE WIND.



# FLOATING OFFSHORE WIND

#### INNOVATION

- Novel motion mitigation technology keeps turbine within acceleration and inclination limits
  - Compared to semi-submersible:
  - 20-30% smaller and lighter
  - Simpler geometry, less parts, fewer connections
  - Easier to deploy
- Utilizes local supply chain

#### TECHNOLOGY

- Large-scale 15MW wid turbine generator (WTG)
- Motion mitigation technology
- Concrete hull built using industreialized production methods
- Significant cost saving by enabling smaller and easier to construct floating foundations

#### DEVELOPMENT

- Achieved TRL 4 in 2022 following a 15MW FEED effort and 1:70 scale model test
- Set to achieve TRL 7 in 2024 with a 1:4 offshore deployment
- ABS Approval in Principle received

### **KEY FEATURES**

#### **NOVEL FOUNDATION DESIGN:**

Utilizes slip-formable concrete-cruciformbarge design with single structural connection, reducing costs and simplifying construction.

#### **EFFICIENT:**

Less than 7m draft enables quay-side commissioning, enhancing deployment efficiency.

#### **OSW SOLUTIONS:**

Simplified design overcomes complexities of semi-submersibles, TLPs, and spars, reducing laydown area, production time, and costs.

#### **MOTION MITIGATION**

Low-cost system minimizes wave-induced motion, allowing for barge design while maintaining operational limits and reducing hull costs.

#### **REDUCED FOOTPRINT:**

Achieves 20-30% smaller hull footprint compared to traditional semi-submersibles, enhancing cost-effectiveness.

#### **TECHNOLOGY READINESS:**

Reached TRL 4 in 2022, and now advancing towards TRL 7 by 2024 through deployment of an offshore demonstrator.