

## 5.5MW 7.25MW 16.6MW Floating Wind Turbines



CMB Energy leads in developing and producing MW-scale wind turbines, leveraging a strong supply network for versatile onshore, offshore, and floating solutions tailored to various wind conditions. Leader of Hybrid Drive technology Customized designs for higher efficiency, higher reliability and lower LCOEs Tests and verifications at all levels – materials, components, subsystems, turbines, wind farms Full lifecycle management powered by IoT, big data & AI.

### Product Performance:

#### Higher efficiency

Higher efficiency permanent magnets generator to guarantee electric energy conversion and continuous provide high-quality power output

**Higher reliability**

Fewer components eliminate failures and maximize turbine availability to more than 99%

**Cost-saving**

Optimize maintenance to lower overall costs

**Grid-friendly**

Power flexibility with zero power-grid impact and outstanding high and low voltage ride-through capabilities

**Our specialty:****Site Customization**

In line with the needs of site conditions, the design capacity can be increased by: 0.5 % ~ 3 %

**Capacity enhancement**

The power generation performance of the wind turbines in service can be increased by: 2 % ~ 5 %

**Safety control**

Quality loss of large components can be reduced by 70 %

**Flexible grid connection**

The global grid characteristics are extensively adapted, and the grid connection pass rate can be as high as 100 %

**Environmental-friendly**

Fully green operation in field-level noise control losses is reduced by 2 %

**User-friendly**

The O&M efficiency of software troubleshooting and technical transformation is increased by 3 ~ 5 times

**5.5MW 7.25MW 16.6MW Floating Wind Turbines**

CMB is pioneering the global energy shift with cutting-edge floating offshore wind solutions, including the CEFE 5.5MW, CEFE 7.25MW, and disruptive 16.6MW double-rotor floating wind system, capable of harnessing wind power in deep waters up to 100km and 100m deep. Together with strategic partners, we are propelling the advancement and commercial viability of floating wind, driving its widespread adoption.

**CEFE 5.5-155 5.5MW Floating Wind Turbines**

World's first typhoon-resistant floating wind turbine  
Integrated simulation for wind, wave and current synergy  
Smart control optimizes load and improves power generation  
Robust typhoon resistance, withstands up to 70 m/s winds

Rated power (MW) 5.5  
Rotor diameter (m) 155  
Rated wind speed (m/s) 10  
Turbulence intensity 0.14  
Survival wind speed (m/s) 70.1

**CEFE 7.25-158 7.25MW Floating Wind Turbines**

China's first "double 100" deepwater floating wind turbine  
Integrated simulation for wind, wave and current synergy  
Smart control optimizes load and improves power generation  
Smart backup power lubrication system ensures reliability  
Ultimate typhoon and wave resistance, withstands up to 84 m/s winds  
Leveraging CMB Energy's expertise in deepwater floating wind construction and O&M

Rated power (MW) 7.25  
Rotor diameter (m) 158  
Rated wind speed (m/s) 10  
Turbulence intensity 0.14  
Survival wind speed (m/s) 84

**CEFE16.6-182 16.6MW Floating Wind Turbines**

World's first 16MW+ double-rotor floating wind system  
Auto yawing to downwind enhances reliability and reduces load  
Innovative tower, lightweight pontoons enhances reliability and generation  
Modular high performance concrete floating foundation cuts system cost  
Single point mooring, compound anchoring lessen system load and sea impact  
Robust typhoon resistance, withstands up to 79.8 m/s winds

Rated power (MW) 16.6  
Rotor diameter (m) 182  
Rated wind speed (m/s) 10  
Turbulence intensity 0.135  
Survival wind speed (m/s) 72.24