**World Forum Offshore Wind (WFO) is the world’s only organisation 100% dedicated to fostering the global growth of offshore wind energy. WFO’s international members represent the complete offshore wind value chain including utilities, manufacturers, service firms and non-profit organisations.**
Phenomenal growth in China makes 2021 a new record year for offshore wind installations

- **15.7 GW** of global offshore wind capacity were added in 2021, driven by China due to the expiration of the Chinese feed-in tariff by the end of 2021.

- Globally, **53** new offshore wind farms went into operation¹ in China (45), the UK (3), the Netherlands (2), Denmark (1), Taiwan (1), and Norway (1).

- The **average size** of a newly added offshore wind farm during 2021 was **296 MW** compared to 347 MW in 2020, due to many 200–300 MW projects in China.

¹ In operation: all turbines installed and first power

15.7 GW

Globally added offshore wind capacity in 2021
In detail: offshore wind farms put into operation in 2021

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**Total** 15,666
Global growth
Offshore wind capacity jumps to almost 50 GW

- Globally, installed offshore wind capacity reached **48.2 GW** by the end of the year 2021, 40% of which (19.7 GW) is now installed in China.

- During the 2nd half of 2021, new offshore wind installations exceeded the first six months by far with **14,045 MW** due to China’s vast buildout.

- Worldwide, **215** offshore wind farms[^3] are currently in operation of which 110 are located in Europe, 103 in Asia and 2 in the USA.

[^1]: In operation: all turbines installed and first power
[^2]: Wind farm: project consisting of at least two offshore wind turbines

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**48.2 GW**

Global offshore wind capacity in operation
Top markets
China becomes the largest offshore wind market by far ahead of the UK and Germany

Global offshore wind capacity in operation⁴ – by country

- **China** grew phenomenally with 12,689 MW⁵ of newly installed capacity during 2021, increasing its total installed capacity to **19.7 GW**

- **China** is now the world’s largest offshore wind market by far with almost as much installed capacity as the UK and Germany combined

- **Germany** falls behind China and the UK with a stagnant total of 7.7 GW and no new capacity added or under construction during 2021

---

⁴ In operation: all turbines installed and first power
⁵ Difference between figures of China’s National Energy Administration (16.9 GW) is due to definition of operational capacity

12.7 GW
Offshore wind capacity added in China in 2021
Construction
Strong growth in China and in new markets around the world

- **China**’s offshore wind sector continues to grow rapidly with a total capacity of **8 GW** currently under construction.
- **In France, Japan** and **Italy** the first **commercial-scale** offshore wind farms went into construction.
- **In Norway** the world’s largest **floating** offshore wind farm (88 MW) is currently under construction.

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*Under construction: first offshore wind foundation installed*
## In detail: offshore wind farms under construction worldwide

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<th>No</th>
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Total 17,021

* Under construction: first offshore wind foundation installed
* Only pin-piles were installed by the end of 2021