

Offshore wind energy 2022 mid-year statistics

WindEurope Market
Intelligence



Scope

This report summarises offshore installations from 1 January 2022 to 30 June 2022. It contains information collected on a regular basis and then verified with relevant members of the industry. Where data is not available assumptions are used. Rounding of figures is at the discretion of the author.

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TEXT AND ANALYSIS:

WindEurope Market Intelligence

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COVER PHOTO:

Courtesy of Van Oord

MORE INFORMATION:

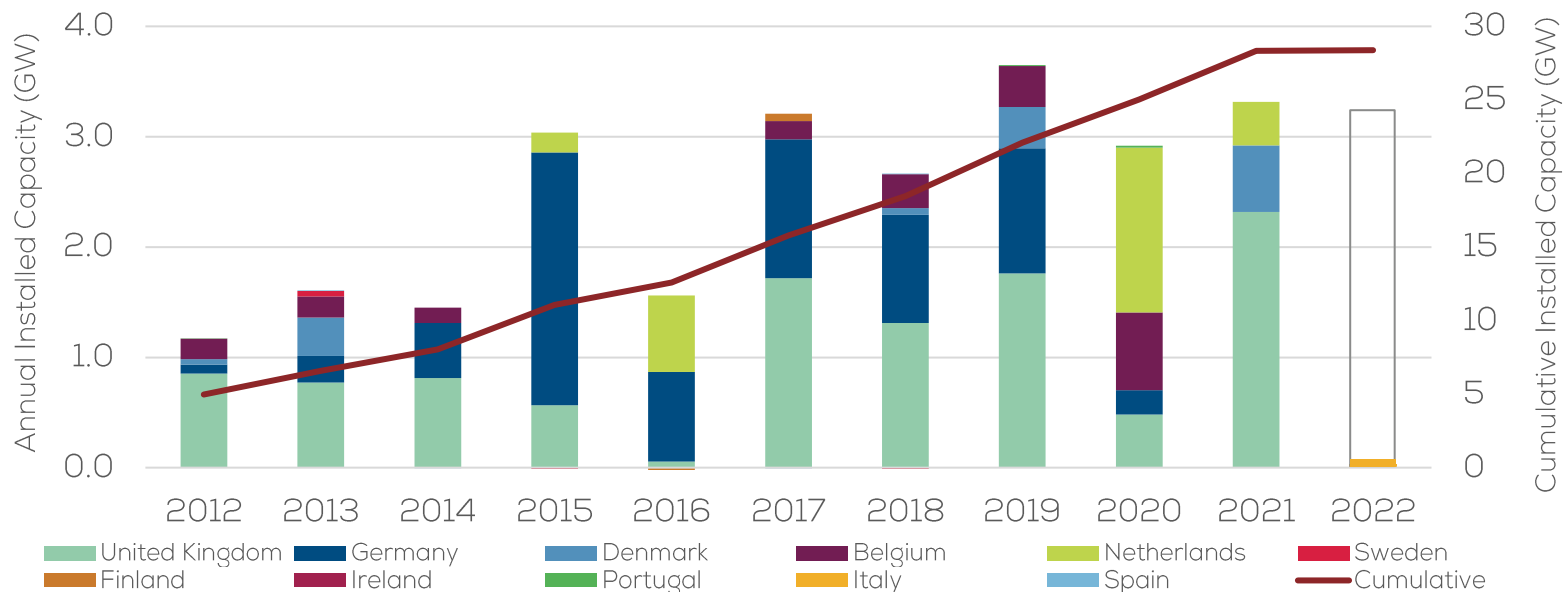
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HIGHLIGHTS

- 30 MW (10 turbines) were connected to the grid in the first half of 2022. The low half-year figure is a result of installed turbines not yet connected to the grid and some supply chain disruptions.
- Construction of foundations and turbines activity took place at 7 wind farms in Europe. One wind farm is now fully commissioned.
- Two floating wind demonstrators reached financial investment decision (FID) in France in the first half of 2022, together they will add a total 60 MW by 2024.
- Europe's offshore installed capacity is now 28.4 GW.
- European Government pledges now add up to 160 GW of offshore wind by 2030.

Europe connected 30 MW in the first half of 2022.
We expect several wind farms to connect to the grid in the second half of the year



7 wind farms installed foundations and turbines in Europe, one is now fully commissioned

Wind farms under construction in First Half 2022

COUNTRY	WIND FARM	TOTAL CAPACITY (MW)	FOUNDATIONS INSTALLED IN H1 2022	TURBINES INSTALLED IN H1 2022	TURBINES AND CAPACITY CONNECTED	TURBINE MODEL	TYPE OF FOUNDATION	STATUS*
Italy	Taranto	30	1	10	10 (30 MW)	MySE3.0-135	Monopile	●●●●●
UK	Hornsea Two	1,386	0	6	-	SG 8.4-167 DD	Monopile	●●○○○
Germany	Kaskasi	342	24	0	-	SG 8.0-167 DD	Monopile	○○○○○
Netherlands	Hollandse Kust Zuid (1&2)	760	16	0	-	SG 11.0-200 DD	Monopile	○○○○○
Netherlands	Hollandse Kust Zuid (3&4)	760	36	25	-	SG 11.0-200 DD	Monopile	○○○○○
France	Sanit Nazaire	480	34	46	-	Haliade 150-6MW	Monopile	○○○○○
Norway	Hywind Tampen	95	4	4	-	SG 8.0-167 DD	Spar	○○○○○
TOTAL		3,853	115	91	10 (30 MW)			

Taranto 30 MW

Online
COD 2022

First Italian operational
wind farm

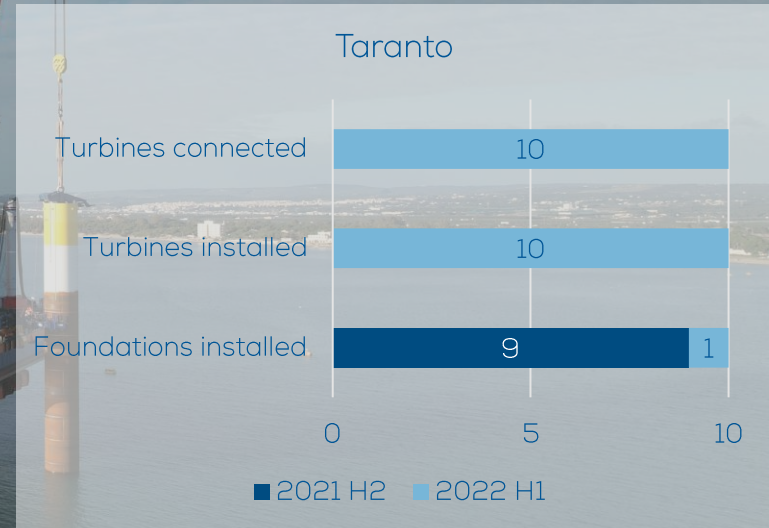


Owners:
Renexia (100%)

Turbines:
10 turbines –
MySE3.0-135
(Ming Yang)

Foundations:
Monopiles (Haizea Wind
Group)

Cables:
Nexans



Hornsea Two

1,386 MW

Partially online
COD 2022

To become the largest operational
wind farm this year



Owners:

Ørsted (50%), AXA (25%)
& Crédit Agricole (25%)

Turbines:

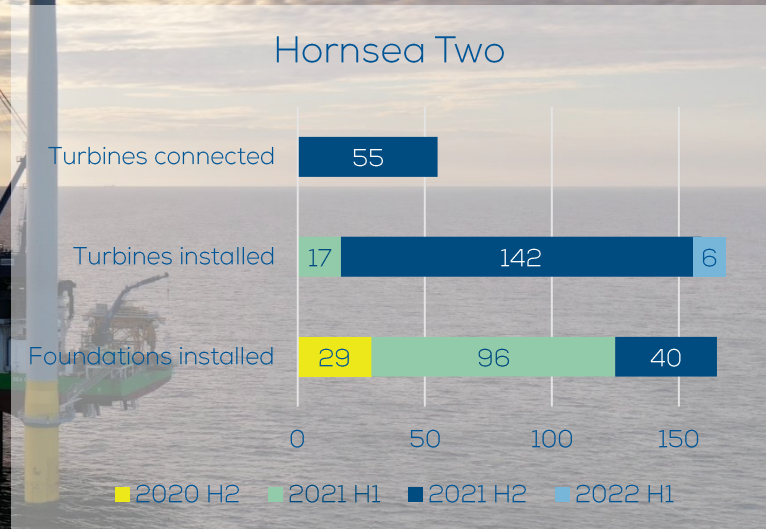
165 turbines –
SG 8.4-167 DD
(SGRE)

Foundations:

Monopiles (EEW)

Cables:

Prysmian (intra-array)
Nexans (export cable)





Owners:
RWE

Turbines:
38 turbines –
SG 8.0-167 DD (SGRE)

Foundations:
Monopiles (Bladt)

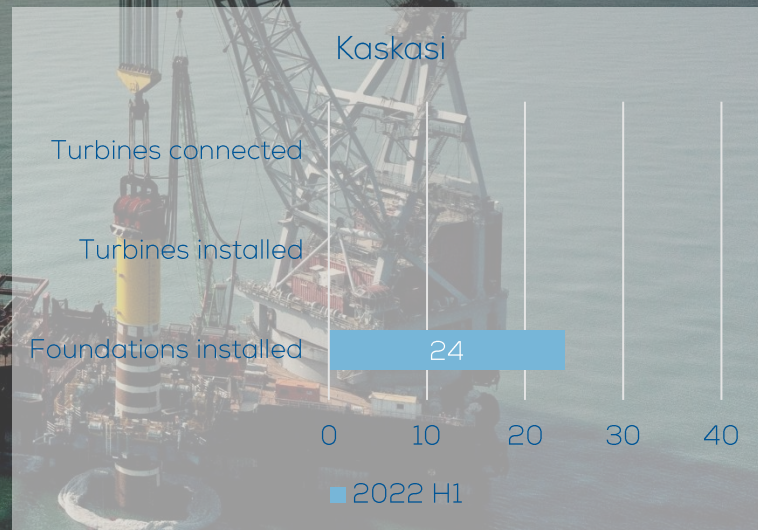
Cables:
TKF (intra-array)
ZTT (export cable)

Kaskasi

342 MW

Under construction
COD 2022

Testing innovations in collared monopiles, and the first recyclable wind turbine blade

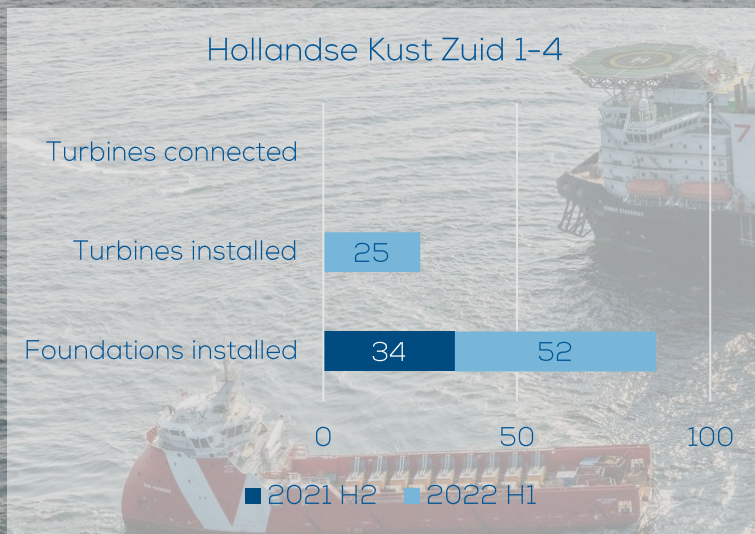


Hollandse Kust Zuid (1-4)

1,520 MW

Under construction
COD 2023

To become largest wind farm complex
when commissioned in 2023



© Vattenfall



Owners:

Vattenfall (50.5%), BASF
(24.3%) & Allianz Capital
Partners (25.2%)

Turbines:

140 turbines –
SG 11.0-200 DD (SGRE)

Foundations:

Monopiles (Sif)

Cables:

Prysmian & TKF
(intra-array)
Hellenic Cables
(export cable)



Owners:

EDF (50%), Enbridge
(25.5%) & CPPIB (24.5%)

Turbines:

80 Haliade 150-6MW
(GE)

Foundations:

Monopiles (Sif)

Cables:

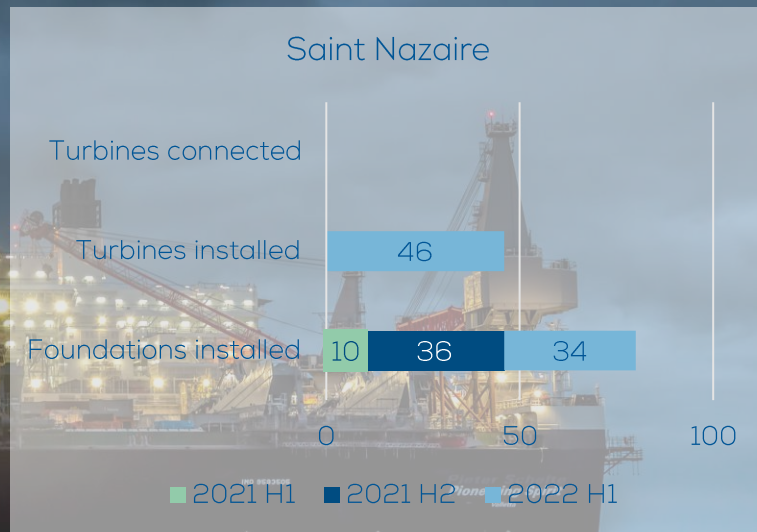
Prysmian & Louis Dreyfus
TavOcean (intra-array)
Prysmian (export cable)

©Parc éolien en mer de Saint-
Nazaire – Production CAPA
Corporate

Saint-Nazaire 480 MW

Under construction
COD 2022

Saint-Nazaire will be the first
French offshore wind farm to come online



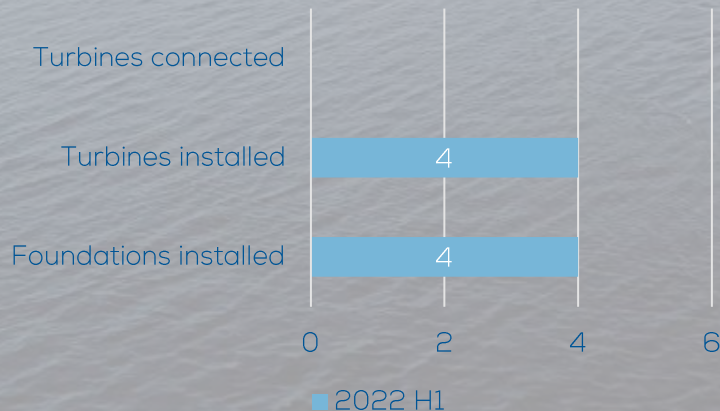
Hywind Tampen

95 MW

Under construction
COD 2023

To become the largest floating wind farm in the world
and first testing electrification of oil and gas platforms
when commissioned in 2023

Hywind Tampen



Owners:

Equinor (42.2%), Petoro (30%), OMV (Norge) AS (9.5%), Vår Energi AS (9.3%), Idemitsu Petroleum Norge (4.8%), Wintershall DEA Norge (4.3%)

Turbines:

11 turbine –
SG 8.0-167 DD (SGRE)

Foundations:

Spar (Aker Solutions)

Cables:

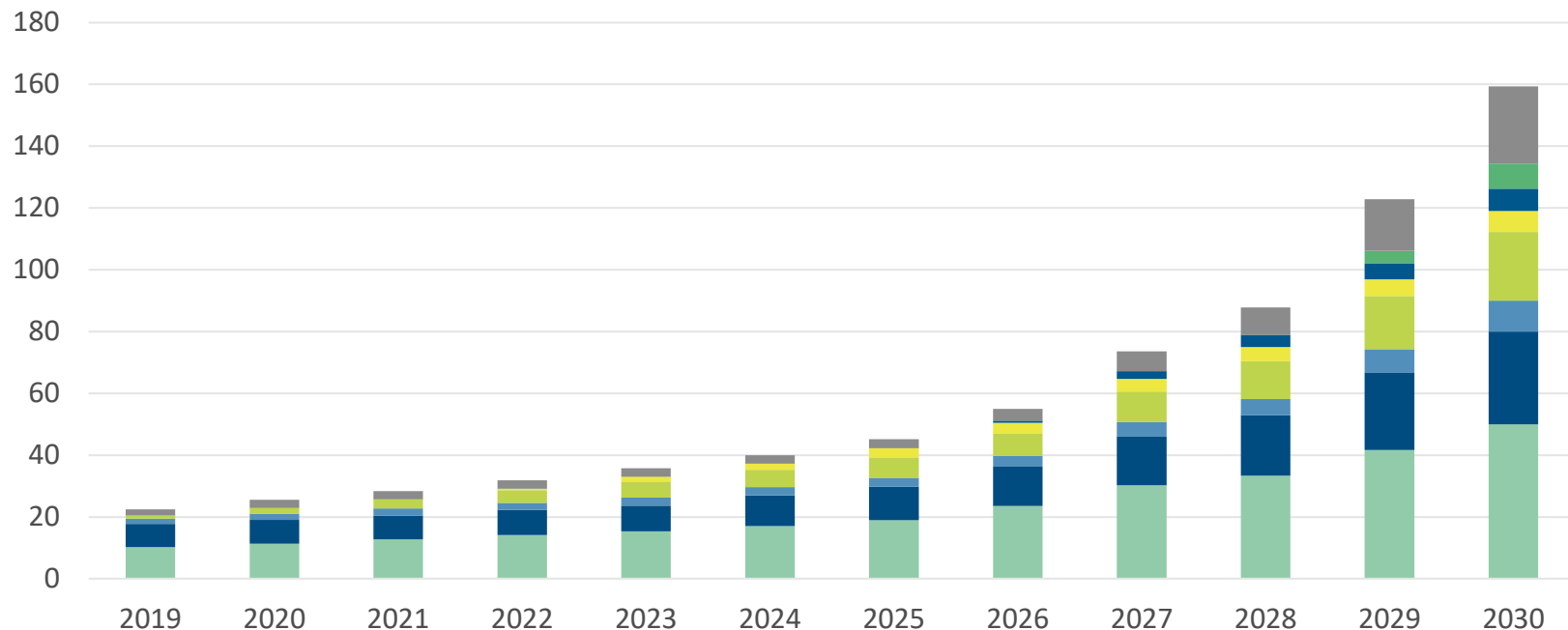
JDR Cable Systems
(intra-array)

Final Investment decisions taken for two floating demonstrators in France. At least three other projects are expected to reach FID in the second half of the year

Financial Investment Decisions in European offshore wind farms in H1 2022

COUNTRY	WIND FARM	CAPACITY (MW)	FINANCIAL INVESTMENT DECISION	COMMISSIONING DATE
FRANCE	EFGL	30	January 2022	2024
FRANCE	EolMed	30	May 2022	2023
FRANCE	Isles of Yeu / Noirmoutier	496	2022*	2025
FRANCE	Dieppe / Le Tréport	496	2022*	2025
UK	Moray West	900	2022*	2025

European Government pledges now add up to 160 GW of offshore wind by 2030, delivering on this ambitions is key



Overview of grid-connected offshore wind power projects at the end of June 2022

COUNTRY	NUMBER OF WIND FARMS CONNECTED	NUMBER OF TURBINES CONNECTED	CUMULATIVE CAPACITY IN 2022 (MW)	TURBINES CONNECTED IN 2022	CAPACITY CONNECTED IN 2022
UK	44	2,542	12,739	0	0
GERMANY	29	1,501	7,713	0	0
NETHERLANDS	9	599	2,986	0	0
DENMARK	15	631	2,308	0	0
BELGIUM	11	399	2,261	0	0
SWEDEN	5	80	192	0	0
FINLAND	3	19	71	0	0
ITALY	1	10	30	10	30
IRELAND	1	7	25	0	0
PORTUGAL	1	3	25	0	0
NORWAY	2	2	6	0	0
SPAIN	1	1	5	0	0
FRANCE	1	1	2	0	0
TOTAL	123	5,795	28,363	10	30

THANK YOU

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