Interreg
North Sea Region
Inn2POWER
European Regional Development Fund

EUROPEAN UNION

OFFSHORE wind energy

BELGIUM

OFFSHORE WIND FARMS

Fully commissioned

Under construction

Development zone

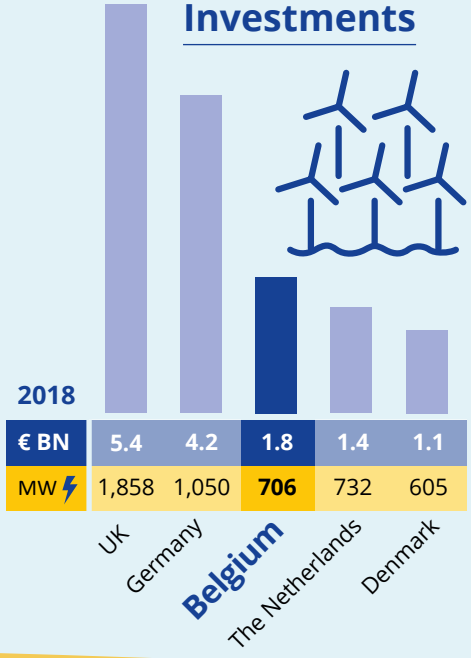
No.	Name	MW	Turbines
1	Seamade (Mermaid)	235	28
2	Northwester 2	219	23
3	Nobelwind	165	50
4	Belwind	165	55
5	Seamade (SeaStar)	252	30
6	Northwind	216	72
7	Rentel	309	42
8	Thornton Bank phase 2	184.5	30
9	Norther	369.6	44
10	Thornton Bank phase 3	110.7	18

OFFSHORE wind energy

Status

	2018	2021
Wind farms connected	7	10
Cumulative capacity (MW)	1,186	2,262
Turbines connected	274	399
Total investments (€ BN)	1.8	
New capacity financed (MW)	706	
Number of projects	2	

Investments



Capacity

2019	1,556 MW
2021	2,262 MW
2030	4,000 MW

Future

2030	Capacity installed	6,300 MW
2030	Electricity produced	17,976 GWh

Factor 2 increase expected between 2020 and 2030

Ecological impact

- **Gas 6 mln. ton/year**
- **Coal 12 mln. ton/year**

Saving
€ 200,000,000/year
(consumption € 40/ton CO_2)

Reduction CO_2 2018

Social Impact

2019
1.6 million households

2021
2.2 million households

2010 – 2030
16,000 jobs (direct)
34,000 jobs (indirect)

> The offshore wind industry is also creating a great deal of added value for the Belgian economy by improving our trade balance and creating employment: up to 16,000 jobs in the Belgian companies that are active within this sector.
>
> *Annemie Vermeylen, Secretary-General of the Belgian Offshore Platform*

Over the past decade of offshore wind energy production in Belgium, installed power has moved gradually from 30 MW in 2009 to 1,556 MW in 2019 with 7 windfarms installed. Offshore wind energy has developed particularly rapidly in recent years, through technological developments and a reduction in production costs. This is driven by large actors with their roots in Belgium and active around the globe building new windfarms.

By the end of 2020, two new wind farms will be commissioned. The first area dedicated to wind energy will be then fully operational and will allow to reach a total installed capacity of 2,262 MW. They will produce energy for approximately 2.2 million families, which is nearly half of Belgian households.

Further expansion with new areas in the Marine Spatial Planning 2020-2026, will allow the development of approximately 2,000 MW of additional offshore wind capacity. To make this possible within geographical constraints, the government considered dual or multi-use combining offshore wind installations with for example energy storage, aquaculture and passive fishing once the wind farms are fully operational.

If the developers are given a connection guarantee, the offshore wind industry could build new offshore power plants by 2024.

The port of Ostend developed an offshore wind hub and provides the service industry with tailored port facilities at proximity. In the slipstream of this development, the research centre 'Bluebridge' continues to attract innovation initiatives and university spin-offs, fuelling the economy of tomorrow in this predominantly tourism driven area.

Inn2POWER partners

- POM West-Vlaanderen
- Port of Ostend
- Blauwe Cluster

POM West-Vlaanderen · Port Oostende energy port · BLAUWE CLUSTER

Inn2POWER started in October 2016 and runs for 4 years. 50% of the budget is subsidized by the EU and the other half comes from public and private financing. More information about Inn2POWER: visit northsearegion.eu/inn2power

Sources

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www.4coffshore.com/offshorewind
Central scenario EWEA (Aug 2015)

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Partners

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BLAUWE CLUSTER
provincie groningen
NOM
wab
Hochschule Bremerhaven
opergy
energy CLUSTER DENMARK
BUSINESS ACADEMY SOUTHWEST
Kent County Council kent.gov.uk

Provides co-funding for

NORTHERN NETHERLANDS OFFSHORE WIND NNOW — NOM

west-vlaanderen de gedreven provincie — POM & Blauwe Cluster

Region of Southern Denmark — AESV & OEDK

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