



MANUFACTURING OF COMPONENTS
FOR RENEWABLE ENERGY

INNOVATION FUND

Deploying innovative net-zero technologies for climate neutrality

NEMO: Next-Generation European Union Manufacturing for Offshore wind

The Innovation Fund is 100% funded by the EU Emissions Trading System

| Project Factsheet

The project will achieve the efficient large-scale manufacturing of SG14 turbines, a new generation of offshore wind turbines made in Europe. Thanks to its 115-metre-long rotor blades, the SG14 has 14 megawatts (MW) nominal power and maximised energy harvesting capabilities. The SG14 introduces unprecedented components to the market, including a 15 MW power boost functionality, enabling clean electricity production with a 99.99% relative greenhouse gas emission avoidance compared to the reference scenario.

NEMO represents a substantial technological leap compared to current offshore wind turbines, bringing significant innovations to the market in its components and manufacturing processes. The project will implement an advanced and integrated manufacturing process in Siemens Gamesa facilities in three European countries. Each of these manufacturing sites will be focused on specific components: nacelles will be produced in Cuxhaven (Germany), and blades will be manufactured in

COORDINATOR

SIEMENS GAMESA RENEWABLE ENERGY GMBH CO KG

LOCATION

Denmark | France | Germany

CATEGORY

Renewable Energy (RES)

SECTOR

Manufacturing of components for renewable energy

AMOUNT OF INNOVATION FUND GRANT

EUR 70,655,474

EXPECTED GHG EMISSIONS AVOIDANCE

11,886,440 tonnes CO₂ equivalent

STARTING DATE

01 May, 2024

ENTRY INTO OPERATION DATE

31 January, 2026

FINANCIAL CLOSE DATE

30 April, 2025

** Calculated vs. the 2021-2025 ETS benchmark of 6.84 tCO₂e/tH₂, not taking into account additional carbon abatement due to substitution effects in the H₂ end use application, i.e. conservative estimate.*

Aalborg (Denmark) and Le Havre (France). Within its first ten years of operation, NEMO's wind turbines will generate enough renewable electricity to power approximately 1.2 million average Danish households, avoiding 11 886 440 tonnes of CO2 equivalent.

The project will contribute to the development of the next generation of offshore wind farms. It represents an important step towards a more environmentally friendly future, fully in line with the objectives of the European Green Deal, the United Nations Sustainable

Development Goals, and the REPowerEU Plan. In addition, NEMO will contribute to the competitiveness and autonomy of the European offshore wind power industry.

The project will create direct and indirect jobs. It will also contribute to further developing Siemens Gamesa's industrial footprint, as it offers a high level of scalability considering the expected exponential growth of the offshore wind market in Europe.

| Participants

SIEMENS GAMESA RENEWABLE ENERGY GMBH CO KG	Germany
SIEMENS GAMESA RENEWABLE ENERGY SAS	France
SIEMENS GAMESA RENEWABLE ENERGY AS	Denmark
SIEMENS ENERGY GLOBAL GMBH CO. KG	Germany