



Supergen ORE Hub Fourth Annual Assembly

Marie Berthelot, Head of Renewables, EDF R&D UK

11:30 – 12:45 Industry Session – Research and innovation priorities, and opportunities for collaboration between industry and academia

Our raison d'être

is to build a net zero energy future with electricity and innovative solutions and services, to help save the planet and drive wellbeing and economic development.

EDF Group takes actions to reach carbon neutrality by 2050

Reach **net zero or almost zero** direct CO₂ emissions by 2050

| A strong acceleration in renewable energy development

| Significant investments to decarbonise the energy system

| Numerous coal and fuel oil fired power plants closed since 2010

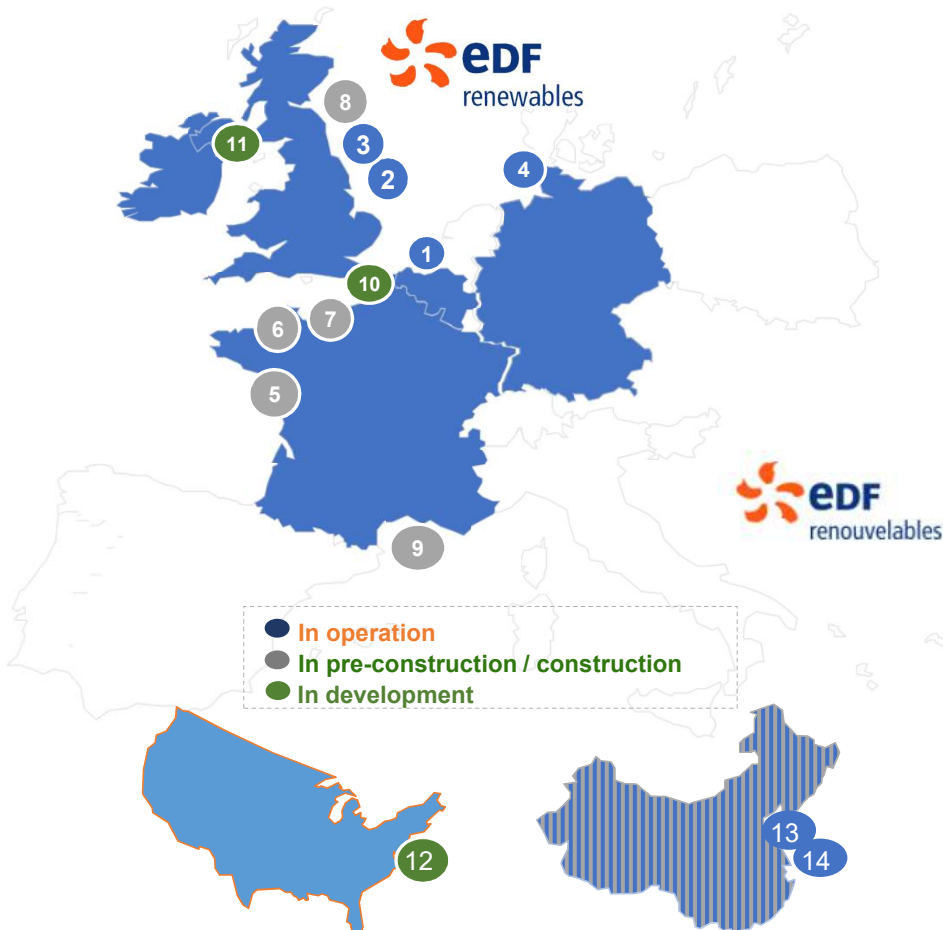
Reduce **indirect** CO₂ emissions

| Development of green electricity offers

| Energy efficiency

Offset residual emissions with **negative emissions** projects

EDF Renewables Offshore Wind Projects



	C-POWER (BE)	1	<ul style="list-style-type: none"> • 325 MW in operation since 2013 • EDFR shareholder of C-Power since 2004
	TEESSIDE (UK)	2	<ul style="list-style-type: none"> • 62 MW operating since summer 2013
	BLYTH 1 & 2 (UK)	3	<ul style="list-style-type: none"> • 41,5 MW operating since 2017 • +55 MW floating in development
	OWS (Germany)	4	<ul style="list-style-type: none"> • O&M services for 400 MW BARD windfarm
	ROUND 3 TENDER (FR)	10	<ul style="list-style-type: none"> • Dunkirk : 600 MW
	New Jersey (USA)	12	<ul style="list-style-type: none"> • Atlantic Shores: >3000 MW • Lease acquired end 2018 • 1.5GW ppa awarded mid 21
	ROUND 1 TENDER (FR)	5 6 7	<ul style="list-style-type: none"> • Saint-Nazaire: 480 MW • Fécamp: 497 MW • Courseulles: 448 MW
	NNG (UK)	8	<ul style="list-style-type: none"> • Acquisition in May 2018 • 450 MW
	FLOATING WIND (FR)	9	<ul style="list-style-type: none"> • Provence Grand Large: 24 MW • 8 MW Siemens ; TLP technology
	CODLING (Ireland)	11	<ul style="list-style-type: none"> • 1,4 GW development rights acquired in 2020
	Jiangsu (China)	13 14	<ul style="list-style-type: none"> • Dongtai IV & V: 500 MW

EDFR is experienced with various kinds of technologies (turbines, foundations...), **with more than 600 resources for offshore, in all technical fields** : engineering, operation and maintenance, R&D, surveys (wind resources, metocean, geophysics, environmental etc.)

EDF R&D UK - Our vision "Driving research and innovation to go beyond Net Zero"

Supporting the growing business of EDF Renewables worldwide with innovation's development and integration that will help to reduce the cost of offshore wind project and increase the safety of our assets.



FLOATING TECHNOLOGY



BOTTOM FIXED



TURBINE



GRIDS



HYBRID TECHNOLOGY



**ENVIRONMENTAL
CONDITION**



**CONSTRUCTION &
INSTALLATION**



**OPERATION &
MAINTENANCE**



**ENVIRONMENTAL
SUSTAINABILITY**



**COST
MODELLING**



PROJECT INTEGRATION



EDF R&D – Cartography of our partnerships





Thank you
