Press conference

EDF IS INNOVATING TO DECARBONISE THE ECONOMY

13 April 2022

Jean-Bernard LÉVY

Chairman and CEO of EDF

Accelerating renewable energies to accomplish the energy transition

Bruno BENSASSON

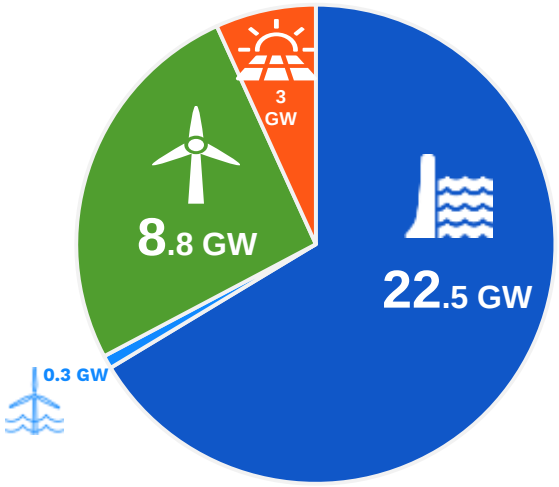
Group Executive Director in charge of the Renewable Energies division

Cédric LE BOUSSE

Director of Renewable Marine Energies in France for EDF Renewables

EDF, A GLOBAL PLAYER IN RENEWABLE ENERGIES COMMITTED TO GROWTH OF >10% PER YEAR

1/4 of the Group's installed capacity



figures as of 31 December 2021

No.1 player in France

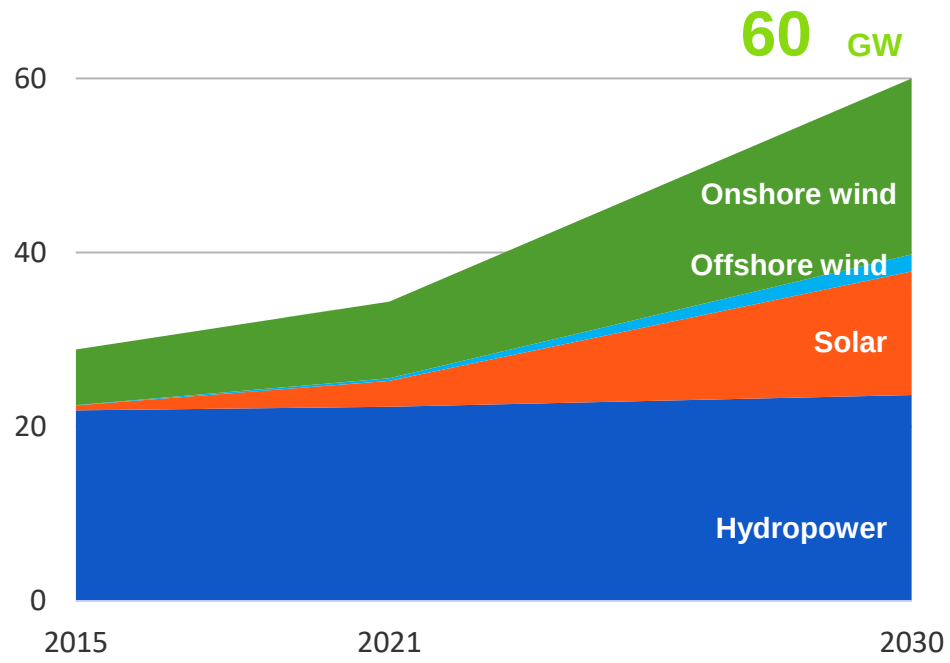
- **No. 1** in hydropower
- **No. 1** in hydropower
- **No. 2** in onshore wind[1]
- **No. 3** in solar[1]

No.1 player in the European Union

No.5 international player[2]

[1] BNEF ranking 2021
[2] excluding Chinese players

CAP 2030, doubling EDF's net renewable capacity by 2030



EDF IS CONTINUING TO DEVELOP ITS HYDROPOWER ACTIVITIES IN FRANCE AND, IN PARTICULAR, ABROAD: +1 GW GROSS SINCE 2015

RECENT COMMISSIONINGS

Brazil
Sinop
(400 MW)

France
La Coche
(237 MW)
and Romanche-Gavet
(97 MW)


Construction of Nachtigal (Cameroon)


Romanche-Gavet underground plant (Isère)

TWO MAJOR CONSTRUCTION PROJECTS

Cameroon
Nachtigal dam (420 MW)

United Arab Emirates STEP* at Hatta (250 MW / 6h storage)

*Pumped storage power station

WORLDWIDE, ABOUT 100 PROJECTS UNDER STUDY FOR + 16 GW

In France,
70 projects = 3.5 GW
including:

STEP: about 10 projects

Small Hydropower:
about 30 projects

EDF IS INNOVATING TO SUPPORT HYDROPOWER PRODUCTION AND OPERATIONS

NEW STORAGE AND PRODUCTION TECHNOLOGIES

Marine STEPs to ensure security of supply

Project under development on Reunion Island

Simulation of a marine STEP

NEW OPERATING TOOLS (robotics, connected objects)

Nessie helping to improve safety and the environment

An innovative robot for underwater work such as sediment removal

In collaboration with Watertracks

Robot Nessie

EDF IS ACCELERATING SOLAR ENERGY PRODUCTION: 1.3 GW UNDER CONSTRUCTION IN 2021 (x14 vs 2015)

EXAMPLES OF RECENT COMMISSIONINGS

Israel
Timna (60 MW)

Greece
Mikrovouni (20 MW)


Pirapora solar power plant 400 MW (Brazil)


Dijon-Valmy solar power plant 15 MW (Bourgogne-Franche-Comté)

64 PROJECTS UNDER CONSTRUCTION

2.3 GW net

India
SECI III (450 MW)

United Arab Emirates
Al Dhafra (2 000 MW)

PORTFOLIO OF PROJECTS UNDER DEVELOPMENT WORLDWIDE

43 GW gross

South Africa
Mogalakwena (100 MW)

EDF AT THE FOREFRONT OF SOLAR ENERGY IN FRANCE

LEPLANSOLAIRE

OBJECTIVE

30% of market shares in 2035

authorised projects **X5**

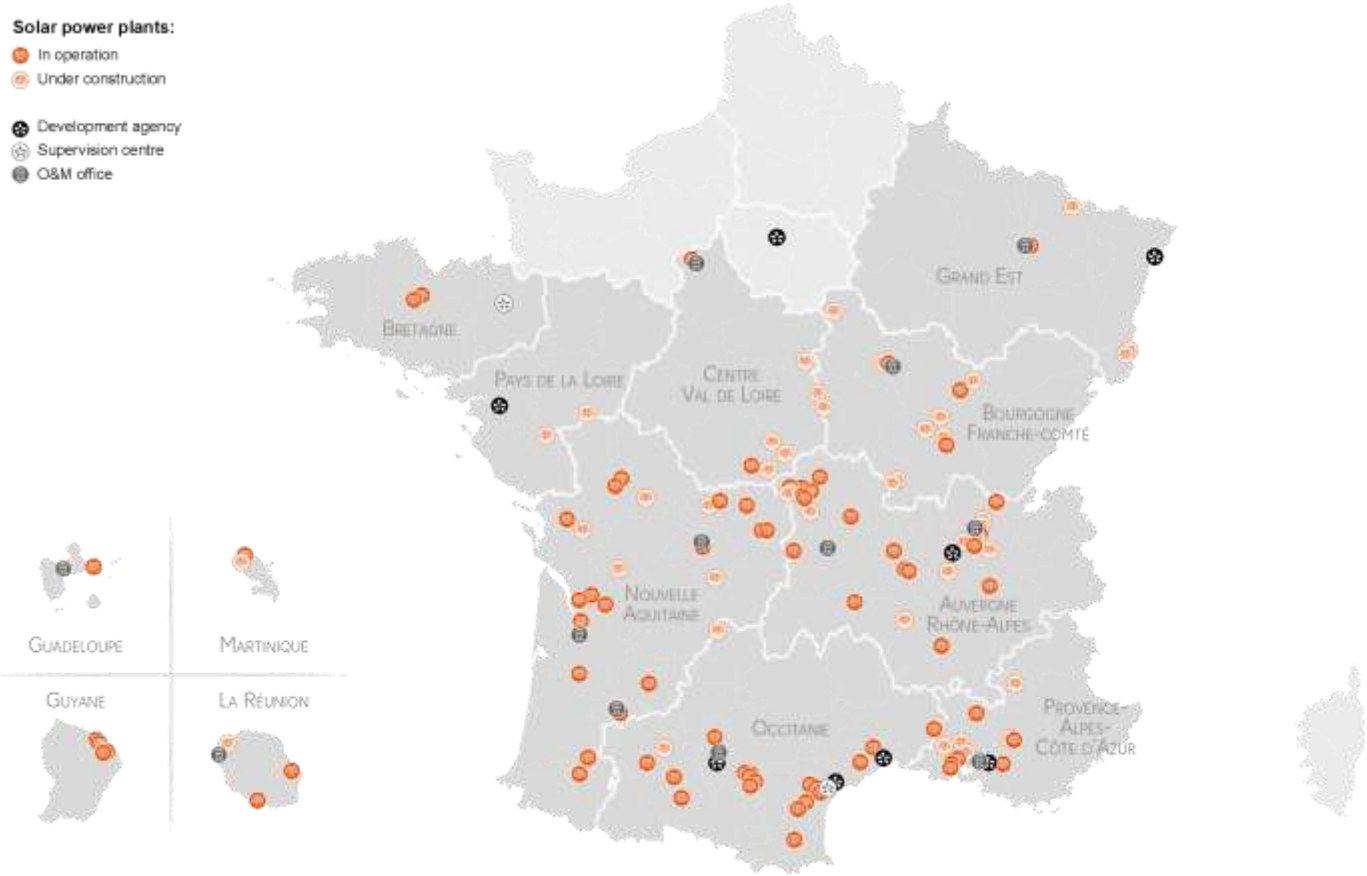
land secured **X7**

No. 1 in capacity won in CRE tenders for 2020 and 2021

No. 1
in self-consumption

25%
share of the customer market

x10
number of installations



EDF IS INNOVATING FOR THE COEXISTENCE OF END USES IN NEW AREAS

FLOATING SOLAR

France
Lazer power plant (20 MW) under construction

Israel
3 plants under construction (36 MW) and ~60 MW under development

Laos
Nam Theun (240 MW) hybrid hydro-solar, under development


Photomontage of Lazer solar power plant (Hautes-Alpes)

AGRIVOLTAICS

PILOT PROJECTS:

Vitisolar (Gironde)
project above vineyards

Les Renardières
dynamic panels on different types of agricultural production


EDF Lab Experimentation site
Les Renardières (Seine et Marne)


Sheep pastoralism Toul Rosières 115 MW
(Meurthe et Moselle)

EDF IS STEPPING UP ITS DEVELOPMENT OF ONSHORE AND OFFSHORE WIND POWER: CONSTRUCTIONS x2 IN 2021 vs. 2015

EXAMPLES OF RECENT COMMISSIONINGS		UNDER CONSTRUCTION	PORTFOLIO OF PROJECTS UNDER DEVELOPMENT WORLDWIDE
Saudi Arabia Dumat Al-Jandal (400 MW) Construction completed	 Installation of wind turbines © Dumat-Al-Jandal wind farm © Vestas	**9 PROJECTS** **Brazil** Serra de Serido (242 MW)	**20 GW** **Morocco:** Koudia Al Baida (100 MW) Repowering
China Dongtai IV and V (500 MW)		**5 PROJECTS** **United Kingdo** Neart Na Gaoithe (450 MW)	**11 GW** **United States** Atlantic Shores (1,5 GW)

FLOATI NG

IN FRANCE: FIRST REPOWERING FOR ONSHORE WIND WHILE OFFSHORE WIND IS TAKING SHAPE

RECENT COMMISSIONINGS		UNDER CONSTRUCTION	PORTFOLIO OF PROJECTS UNDER STUDY
Beaujolais vert (12 MW) Rhône	 Installation of the first wind turbine at the Saint-Nazaire offshore wind farm ©CAPA	**Antezant (12 MW)** Charente-Maritime	**3 GW** **Oupia (Occitanie)** Repowering (21 MW)
Saint-Nazaire offshore wind farm First wind farm in France (480 MW)		**Offshore wind farms in Fécamp (490 MW)** and **Calvados (450 MW)**	**Offshore wind farm in Dunkirk** (~600 MW) Shortlisted in one land-based and one floating tender

EDF IS INNOVATING FOR THE ENVIRONMENT AND COMPETITIVENESS

RECYCLABLE BLADES

OBJECTIVE

By 2025, first 100% recyclable blades

- Investment in R&D
- Partnership with Siemens Gamesa

Blades stored for the future offshore wind farm in Saint-Nazaire (Loire-Atlantique)

FLOATING WIND FARM

Project under construction in France
Provence Grand Large

- R&D: digital calculation, metallurgy...
- Technological, economic and environmental feedback

Simulation of the Provence Grand Large pilot farm (3 x 8 MW wind turbines)

EDF IS DEPLOYING A WIDE RANGE OF ENERGY STORAGE SOLUTIONS: +1.1 GW GROSS CAPACITY ACHIEVED OR SECURED SINCE 2018

THE ELECTRIC STORAGE PLAN

OBJECTIVE

+10 GW worldwide between 2018 and 2035

La Coche, STEP (240 MW) installed in 2019 (Savoie)

United Kingdom

Pivot Power : Commissioning of 100 MW (1h) storage batteries and construction of 100 MW (2h)

South Africa

Umoyilanga (290 MW) Hybrid solar, wind and storage project

Germany

Storage solution for industrial and tertiary customers (PV + batteries)

United States

Arrow Canyon
275 MW of solar coupled with 91 MW of storage (5h)

Africa

1 million users of off-grid kits in 2030 (PV + batteries)

EDF IS INNOVATING TO IMPROVE THE INTEGRATION OF RENEWABLE ENERGIES INTO THE ELECTRICITY NETWORK

MICROGRID

Peru

Winner in Iquitos

Combination of PV (~100 MW) and batteries (4h) for renewable electricity that can be managed on an isolated grid

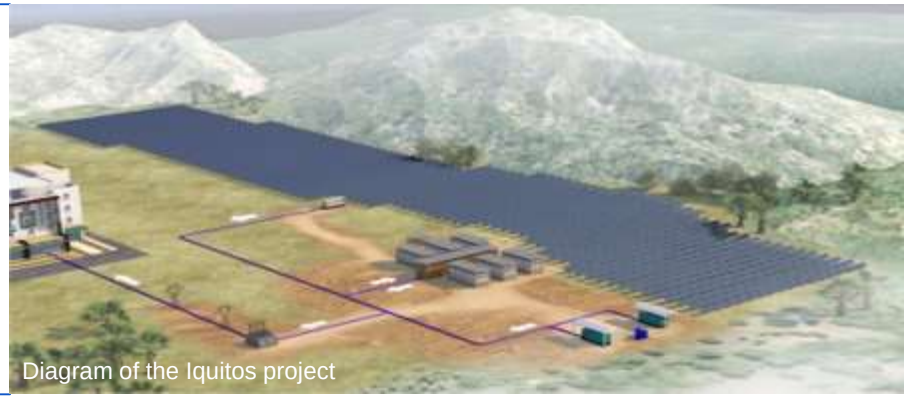


Diagram of the Iquitos project

FLEXIBILITY

France

Grand'Maison (Isère):
turbine-pump coupling

Vogelgrun (Haut-Rhin):
flow battery coupling

STEP at Grand'Maison 1800 MW(Isère)

THE CHALLENGES OF ACCELERATION IN RENEWABLE ENERGIES

RESOURCES	SUPPLIERS	CUSTOMERS	SOCIETY AND ENVIRONMENT
Training and recruitment Financial resources	Supply chains Project control	Competitiveness of technologies Public (tenders) and private (corporate PPA) applications	Acceptance and approval of projects Preservation of biodiversity

RENEWABLE ENERGIES ARE AN ESSENTIAL COMPONENT OF A DECARBONISED ENERGY SYSTEM FROM UPSTREAM TO DOWNSTREAM

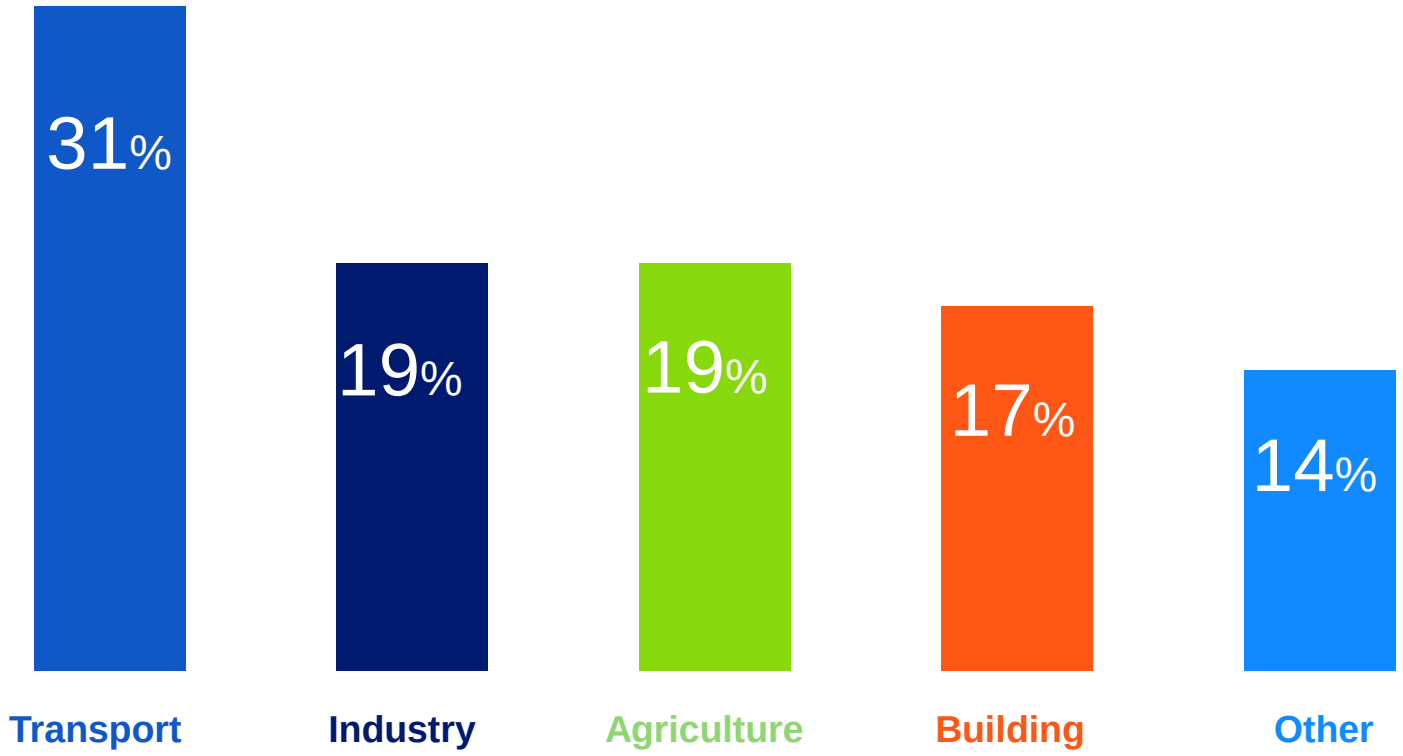
Questions

EDF Group: a major player in decarbonisation serving its customers

Marc BENAYOUN
EDF Group Senior Executive Vice President,
Customers & Energy Services

Sylvie JÉHANNO
Chairwoman and CEO of Dalkia

GREENHOUSE GAS EMISSIONS OF THE MAIN SECTORS OF THE ECONOMY IN FRANCE



Source CITEPA - National inventory of GHG emissions by sector in France in 2019 (in MtCO2e)

THE GROUP HAS THE SOLUTIONS TO DECARBONISE A LARGE PROPORTION OF END USES

ELECTRICITY PRODUCTION

EDF

TRANSPORT

Light vehicles

izivia GROUPE EDF

izi by EDF

Buses and coaches

izivia GROUPE EDF

hynamics EDF GROUP

Utility vehicles

izivia GROUPE EDF

BUILDING

Residential

izi by EDF

izi confort GROUPE EDF

EDF

Tertiairy

dalkia GROUPE EDF

datanumia GROUPE EDF

EDF ENR

MANUFACTURING INDUSTRY AND CONSTRUCTION

EDF

dalkia GROUPE EDF

EDF ENR

hynamics EDF GROUP

DISTRICT HEATING

dalkia GROUPE EDF

OPERATIONS IN FRANCE

izivia GROUPE EDF

No. 1 operator of public charging stations (market share: 20%)

EDF ENR

No. 1 in self-consumption (market share residential segment: 25%)

dalkia GROUPE EDF

No. 1 in heating and cooling networks

agregio

No. 1 aggregator

ELECTRIC MOBILITY PLAN: EDF IS AHEAD OF SCHEDULE

The EDF Group invested very early in this market

6 000 charging stations deployed each month

€250m invested between 2019 and 2021

LEADING POSITIONS IN EUROPE

izivia

Leader in France
Public load (20% PDM)
Private terminals (~ 15-20 %)
Availability rate = 96%
(Source: GIREVE)

pod POINT

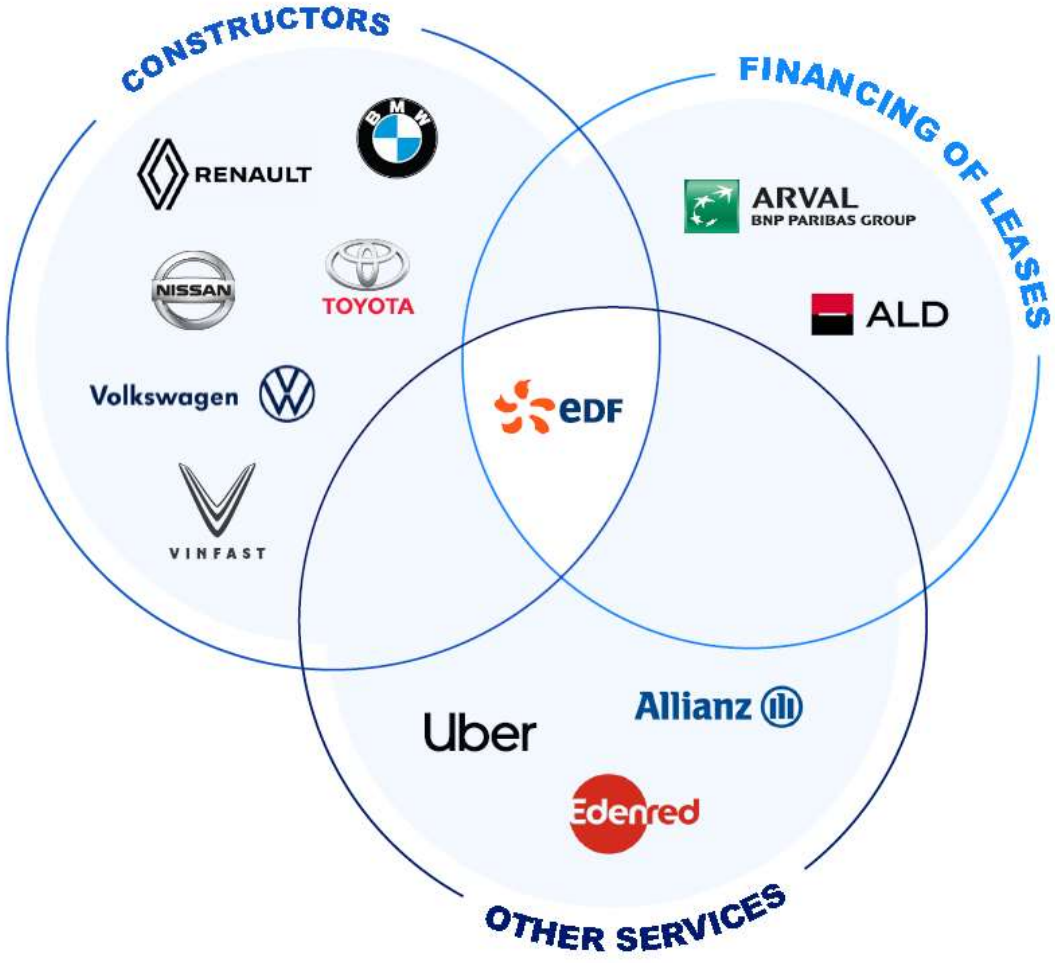
Leader in UK
B2C and B2B

RESULTS ABOVE TARGET

KPI Mobility Plan G4	Target 2022 set in Oct. 2018	Achieved End 2021	New target 2023
Market share in electricity supply	30%	30%	30%
Charging points deployed	75,000	200,000	400,000
Smart charging points deployed	4,000	10,000*	20,000*

* Including operations in the USA

IN THIS EMERGING MARKET, THE EDF GROUP IS A SOUGHT-AFTER PARTNER



INNOVATIONS FOR ALL CUSTOMERS

Smart charging

V2G

dreev

La Région Occitanie

RECHARGE INTELLIGENTE -Grand Est

INNOVATION ELECTRIC MOBILITY

Management of battery recharge with electric bus operator

Combined offer of charging stations and solar panels for industry and the service sector

A major R&D programme batteries, charging stations, smart charging...

THE EV100 PROJECT: CONVERTING 100% OF THE GROUP'S LIGHT VEHICLE FLEET TO ELECTRIC BY 2030

EDF: First French group to join the EV100 initiative of the NGO "The Climate Group" in December 2017

RESULTS AT THE END OF 2021

17.3%
rate of electrification of the fleet

7,000
charging points deployed

CLIMATE GROUP EV100

Among the 121 companies that signed the EV100 commitment by the end of March 2022, the EDF Group is:

No. 1 worldwide
for its "EV100 commercial fleet" commitment with 45,014 light vehicles

No. 1 worldwide
for its fleet of electric vehicles with more than 7,700 electric vehicles at the end of 2021 **(17.3%)**

No. 1 worldwide*
for the progress of the electrification of its fleet with **+ 1,950** electric vehicles between September 2020 and the end of August 2021

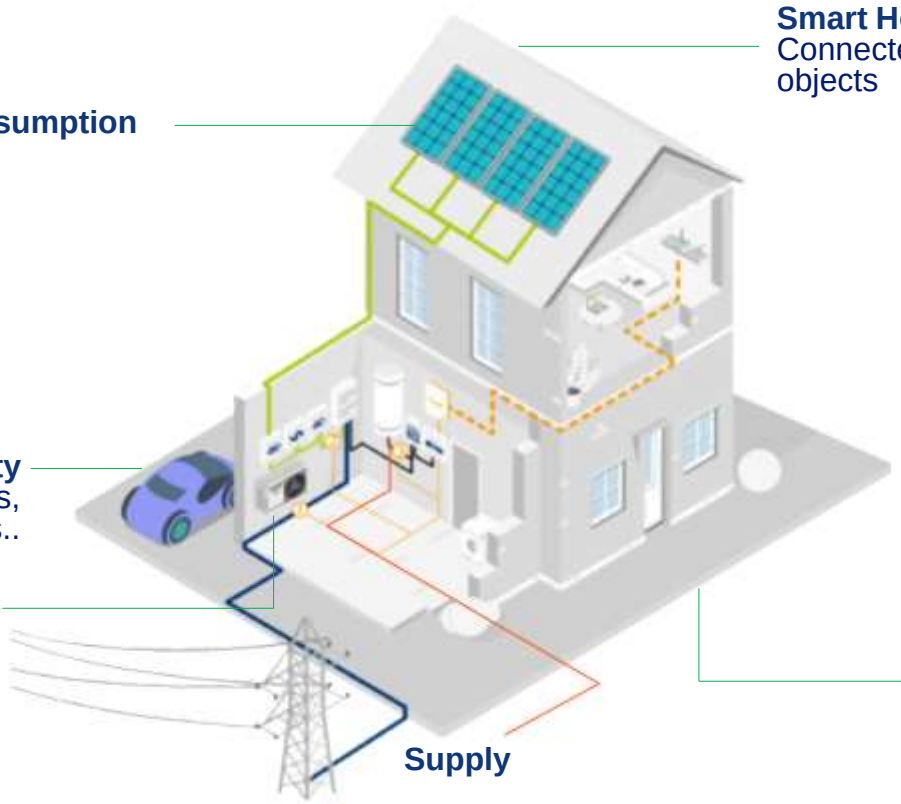
**for the 2nd consecutive year*

EV100 ALLOWS US TO INNOVATE AND ANTICIPATE

THE NEEDS OF OUR BUSINESS CUSTOMERS AND THEIR EMPLOYEES

A COMPLETE RANGE OF SOLUTIONS

TO DECARBONISE INDIVIDUAL HOMES



SUPPLY:

A wide range of Vert Électrique offers:

- Vert Électrique Weekend
- Vert Électrique Régional
- Green Electric Auto

HEAT PUMP & RENOVATION:

IZI is in the TOP 3 of the heat pump market with a significant acceleration in sales in 2021 **(x3 vs 2020).**

Development of a complete insulation range.

SELF-CONSUMPTION :

EDF ENR: leader in self-consumption in France with more than 30,000 installations and a 25% market share in 2021.

ENERGY SAVINGS:
"MES ECOS & MOI"

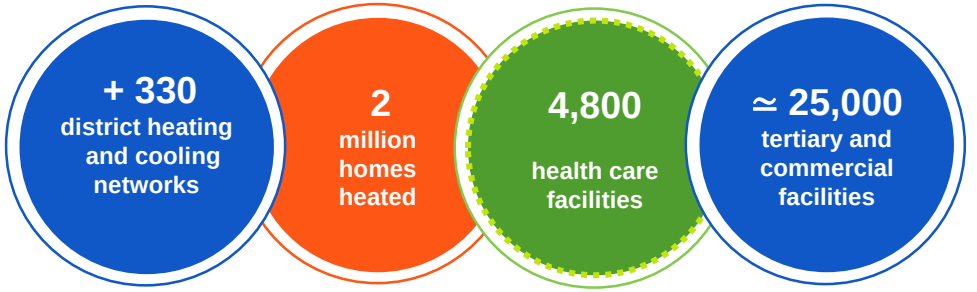
Up to 12% savings for off-peak customers who connect to the service 2 to 3 times a month (results audited and validated by DATASTORM).

DALKIA: SOLUTIONS TO SUPPORT THE DECARBONISATION OF BUILDINGS

Two main activities: low-carbon decentralised production and energy demand management

Development and use of local renewable and recovered energy sources, particularly through heating and cooling networks (biomass, geothermal energy, thalassothermal energy, recovery of waste heat, etc.).

Energy savings through Energy Performance Contracts and the management of energy consumption by facilities via an interactive platform: the Dalkia Energy Savings Center (DESC).



ENVIRONMENTAL PERFORMANCE

3.8 million tonnes of CO_2 avoided

In 2021

ENERGY RENOVATION OF PUBLIC BUILDINGS

ENERGY PERFORMANCE CONTRACTS

DIGITAL INNOVATION (BIM GEM)

BUILDING

DECARBONISING INDUSTRY AT DALKIA

more than **2,500** industrial sites

Decarbonisation refers to all techniques that make it possible to reduce the use of fossil fuels such as gas and coal. Dalkia offers a wide range of solutions.

Saving energy by combining human expertise and digital innovation

Energy Performance Contracts

The “Dalkia Energy Savings Center”

Dalkia Analytics powered by Metron

dalkia | analytics GROUPE EDF powered by METRON

More than 100 sites equipped with Dalkia Analytics by Metron

Making the most of "lost" heat

Recovering heat produced by industrial processes for use in heating networks

ARCELOR MITTAL
DUNKIRK

STELLANTIS
CHARLEVILLE MÉZIÈRES

CONSTELLIUM
ISSOIRE

Decarbonising the energy mix

Low-carbon boilers: biomass, grade B wood, Solid Recovered Fuels (SRF)

Electrification of end uses: heat pumps

FRANCE RELANCE

POTENTIAL OF 17 WINNING BIOMASS HEATING PROJECTS

ARKEMA

ARKEMA – LANNEMEZAN CHAUFFERIE CSR

10,000 tonnes of CO_2 avoided

EDF INDUSTRY

SUBSTANTIAL AND ACCELERATED CO_2 REDUCTIONS

PRODUCTS/SOLUTIONS DEVELOPED IN 2021	4.4 million tonnes of CO_2 avoided in 2021	>15 million tonnes of CO_2 avoided by 2030	CONTRIBUTION OF THE CUSTOMERS AND ENERGY SERVICES
Charging station installations EV charging supply contracts	0.6 Mt	3.5 Mt	izi by EDF; LE PLAN MOBILITÉ ÉLECTRIQUE; dreev EDF GROUP; izivia GROUPE EDF; EV 100
Renewable & Recovered energy in energy efficiency networks	3.8 Mt	7 Mt	dalkia GROUPE EDF
Heat pumps	0.01 Mt	0.9 Mt	izi by EDF; izi confort GROUPE EDF; EDF ENR
PV installations	0.004 Mt	0 Mt	EDF ENR; LEPLANSOLAIRE

Scope: France

Questions

THE HYDROGEN PLAN

Alexandre Perra
EDF Group Senior Executive Vice-President,
Innovation, Strategy and Planning

Christelle ROUILLÉ
CEO of Hynamics

HYDROGEN, AN ESSENTIAL LEVER FOR REDUCING OUR DEPENDENCE ON FOSSIL FUELS AND ACHIEVING CARBON NEUTRALITY

1.

Low-carbon hydrogen: a key driver for achieving carbon neutrality in addition to direct electrification

2.

Hydrogen is currently largely produced from fossil fuels. The process therefore emits a lot of CO_2: to produce 1 kg of hydrogen, 10 kg of CO_2 are emitted

3.

The EDF Group is committed to producing 100% low-carbon hydrogen produced by an electrolyser which itself powered by low-carbon electricity:

- Low-carbon electricity network (France)

or

- Decarbonised electricity sources, renewables or nuclear

STARTING NOW, A MASSIVE DECARBONISATION POTENTIAL

Starting now

In transport:

First direct mobility uses (buses, refuse collection vehicles, trucks or trains in non-electrified areas)

In industry:

To substitute hydrogen produced using hydrocarbons that serves as a raw material

To decarbonise certain industries such as the steel industry

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To substitute hydrogen produced using hydrocarbons that serves as a raw material

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In addition from 2030 onwards

In transport:

To create synthetic fuels in maritime and air transport

STARTING NOW, A MASSIVE DECARBONISATION POTENTIAL

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First direct mobility uses (buses, refuse collection vehicles, trucks or trains in non-electrified areas)

In industry:

To substitute hydrogen produced using hydrocarbons that serve as a raw material

To decarbonise certain industries such as the steel industry

In addition from 2030 onwards

In transport:

To create synthetic fuels in maritime and air transport

In the longer term

In electricity production:

To replace gas in Combined Cycle Gas Turbines

To support grid flexibility in regions with few controllable sources or in isolated networks

LE PLAN HYDROGÈNE

TO ACCELERATE THE DEEP DECARBONISATION OF THE MOST CO_2 EMITTING SECTORS

LE PLAN HYDROGÈNE

To develop **3 GW gross** of low-carbon hydrogen production projects worldwide by 2030

Become a European leader in **100% low-carbon** hydrogen production by 2030

€2 to 3 billion of investments co-financed through industrial partnerships and by drawing on national and European support mechanisms

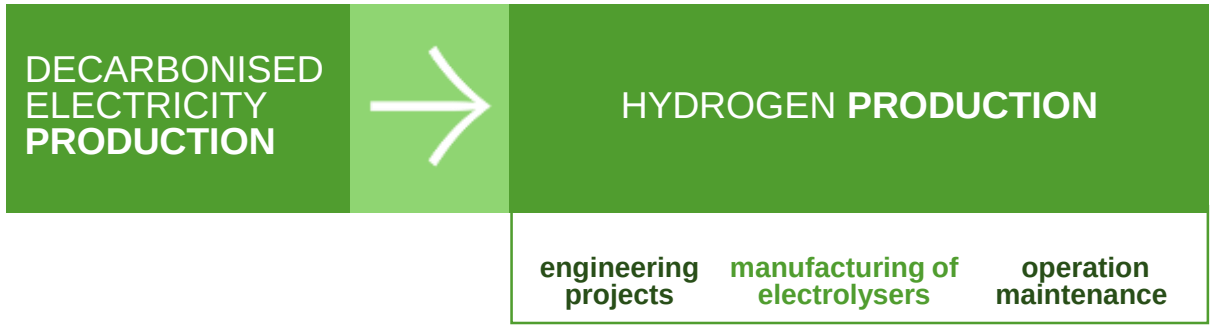
EDF

EDF, A HYDROGEN PIONEER

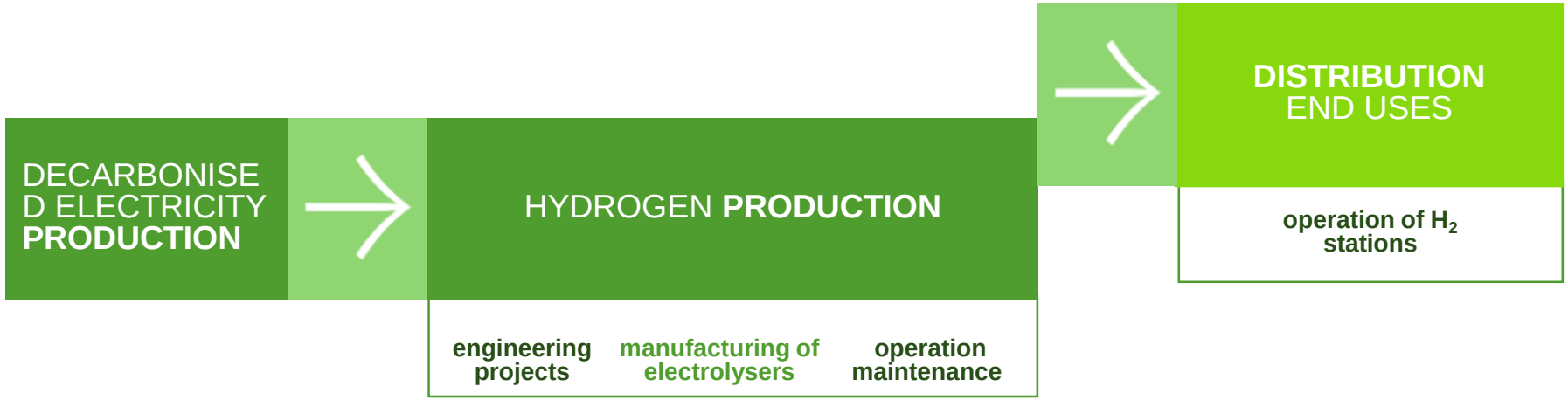
STRONG AND LONG-STANDING EXPERTISE IN R&D	EQUITY INVESTMENTS	A SUBSIDIARY DEDICATED TO HYDROGEN	INDUSTRIAL PARTNERSHIPS TO DEVELOP TECHNOLOGIES AND END USES
20 years of R&D research Electrolyser test platform at EDF Lab in Les Renardières €50 million invested over the last 20 years	Shareholder in McPhy since 2018 (electrolyser manufacturer) Investment in the Hy 24 decarbonated hydrogen investment fund	Creation of Hynamics in 2019 Integrated offer, production and marketing	<u>Examples:</u> Alstom: to optimise the refuelling of hydrogen trains Borealis: to produce low-carbon ammonia Domo Chemicals: to decarbonise the chemical industry

OUR PRESENCE IN THE VALUE CHAIN

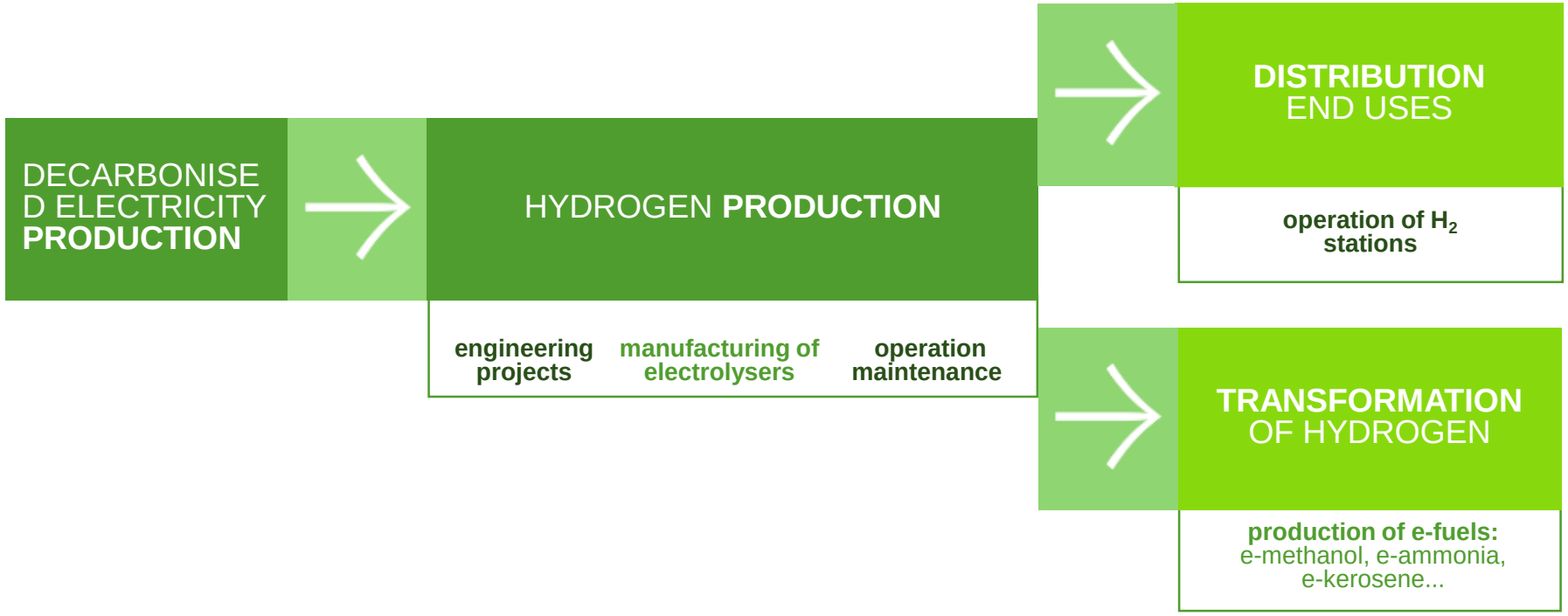
OUR PRESENCE IN THE VALUE CHAIN



OUR PRESENCE IN THE VALUE CHAIN



OUR PRESENCE IN THE VALUE CHAIN



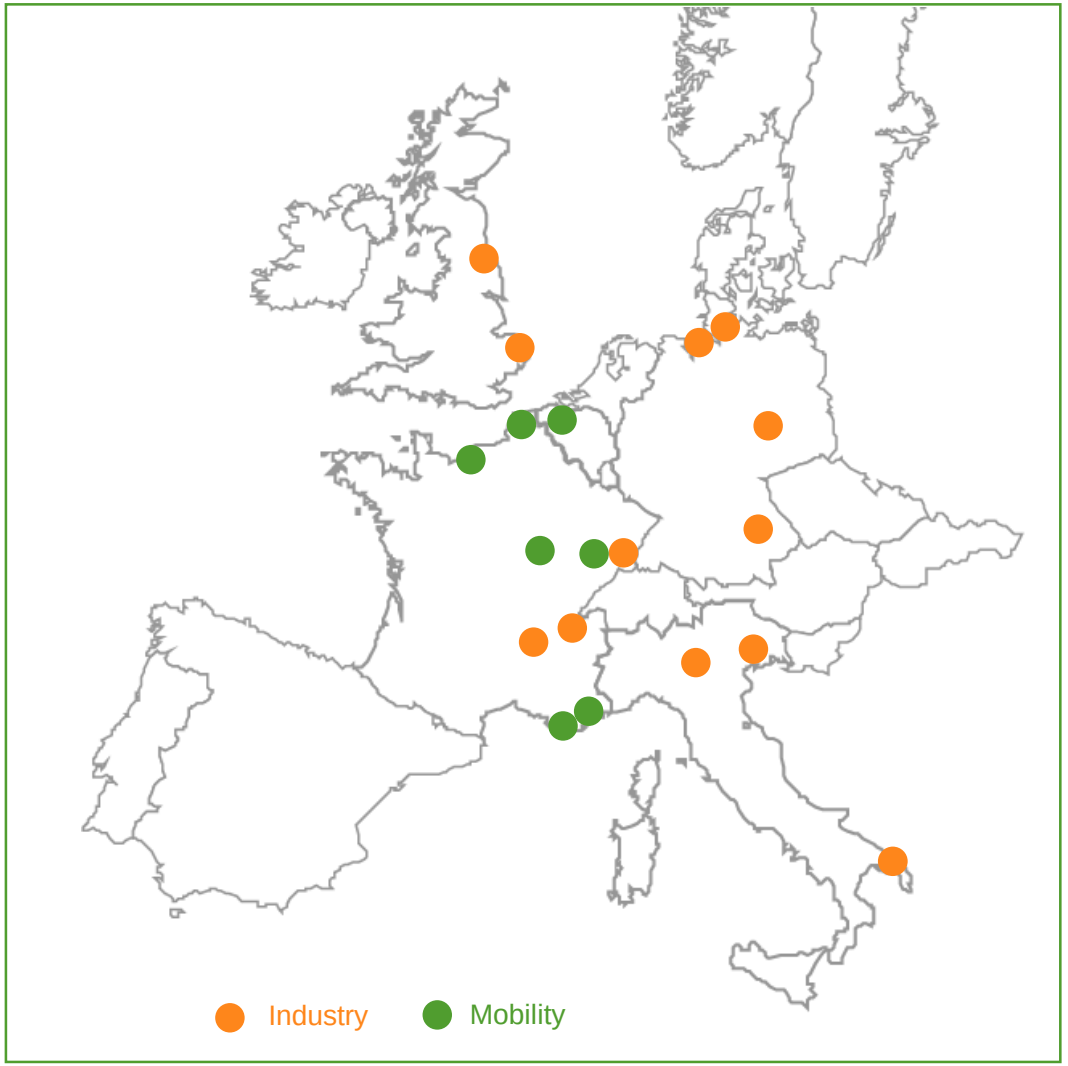
EDF, A LEADER IN LOW-CARBON HYDROGEN TODAY

> 1 GW of projects under development

A pipeline of ~ 60 projects worldwide

The Group is developing numerous low-carbon hydrogen production projects in Europe...

... and is making progress on projects combining renewable energy and hydrogen production internationally (Americas, Middle East...)



Decarbonising mobility; AuxHyGen station in Auxerre

- 1 MW capacity with possible extensions up to 3 MW
- Up to 400 kg of renewable hydrogen produced per day
- 5 hydrogen-powered buses and other end uses to come: utility vehicles, trucks, trains and boats
- Eventually 2,200 tonnes of CO_2 avoided per year, equivalent to the carbon footprint of 200 inhabitants

Decarbonising industry:
Hynovi project with cement manufacturer Vicat in Isère

330 MW capacity by 2025

Production of carbon-free methanol from CO_2 emitted by the cement plant and low-carbon hydrogen

Up to 200,000 tonnes of e-methanol per year

500,000 tonnes of CO_2 avoided per year, equivalent to the carbon footprint of 45,000 people

Decarbonising an industrial-port ecosystem: Tees Green Hydrogen project in the UK

30 to 50 MW capacity with possible extensions up to 500 MW

Electricity supply from an offshore wind farm and a photovoltaic farm operated by EDF Renewables UK

Ecosystem of hydrogen consumers including mobility, port and industrial uses

LE PLAN HYDROGÈNE

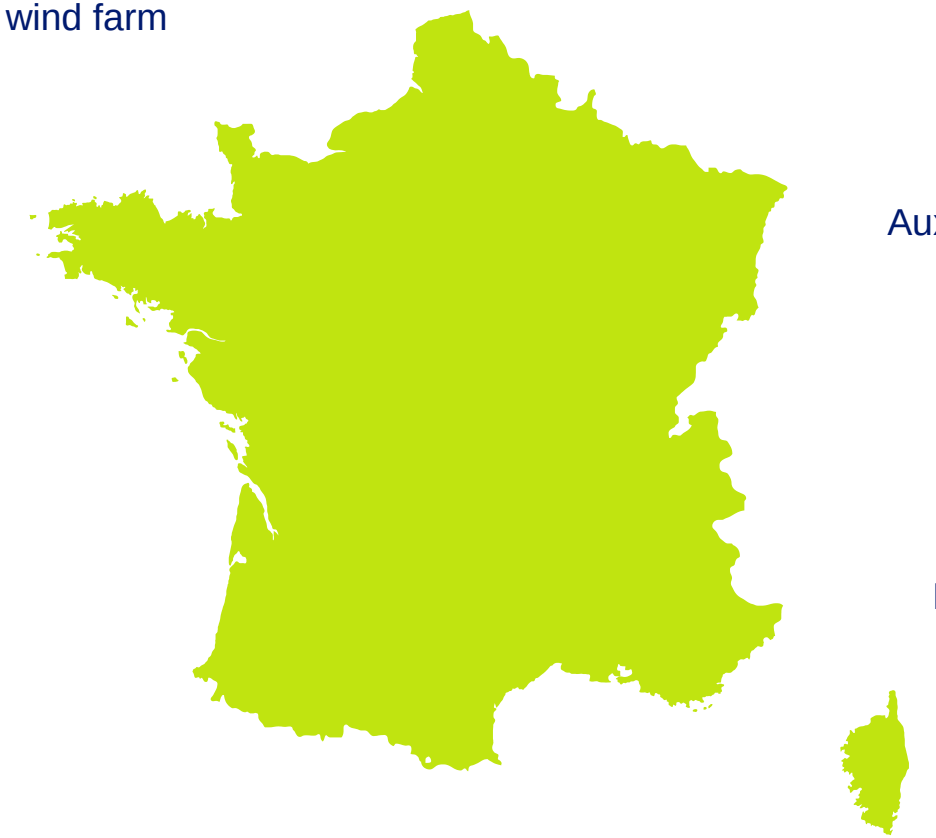
TO ACCELERATE THE DEEP DECARBONISATION OF THE MOST CO_2 EMITTING SECTORS

Questions

Upcoming press events

Agrivoltaics at EDF Lab les Renardières

Fécamp offshore wind farm



Saint-Nazaire offshore wind farm

AuxHyGen station in Auxerre

Press trip on decarbonisation of industries

Inauguration of the Poutès dam

Floating solar power in Lazer

Jean-Bernard LÉVY

Chairman and CEO of EDF

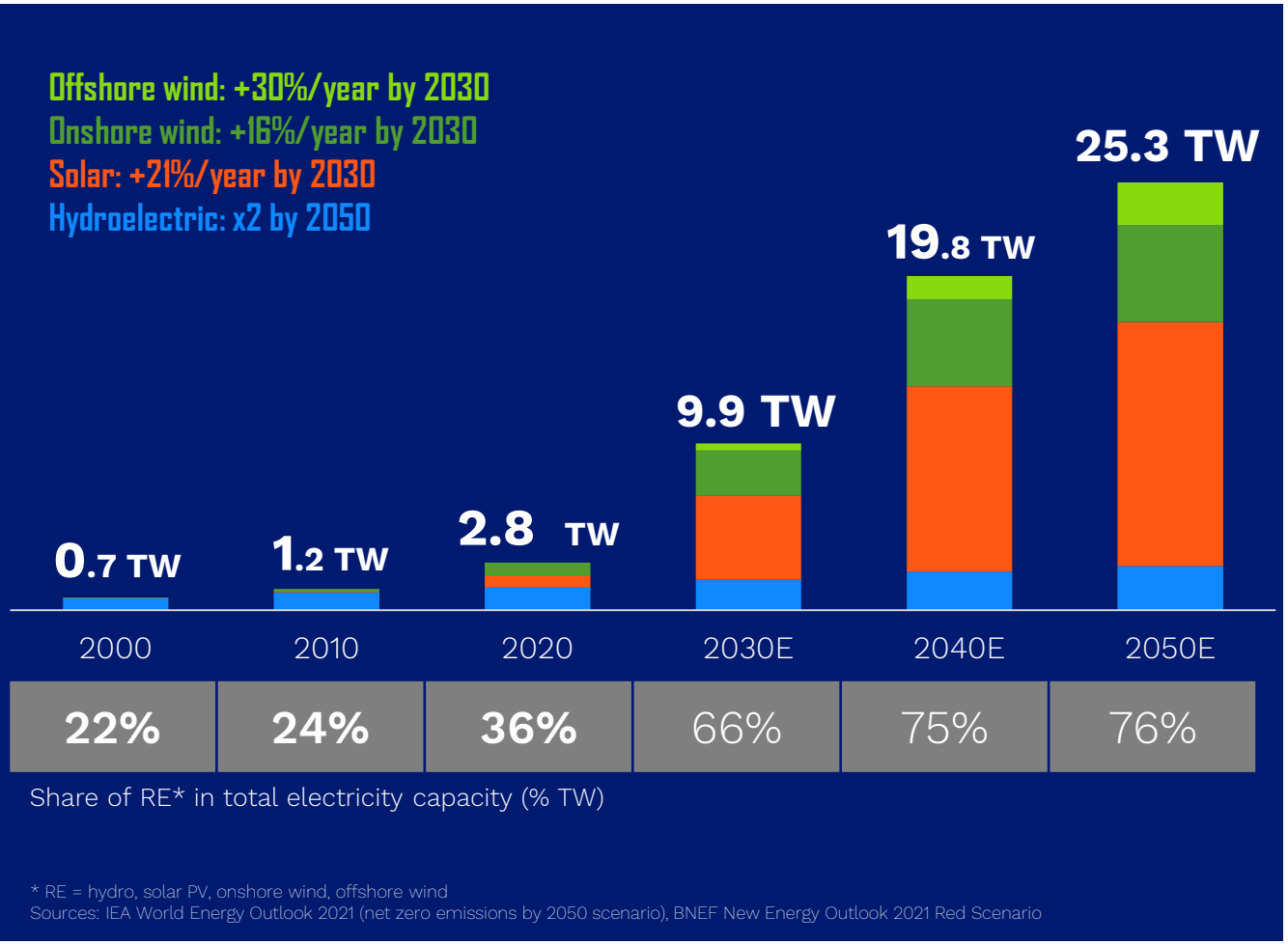
Press conference

EDF IS INNOVATING TO DECARBONISE THE ECONOMY

13 April 2022

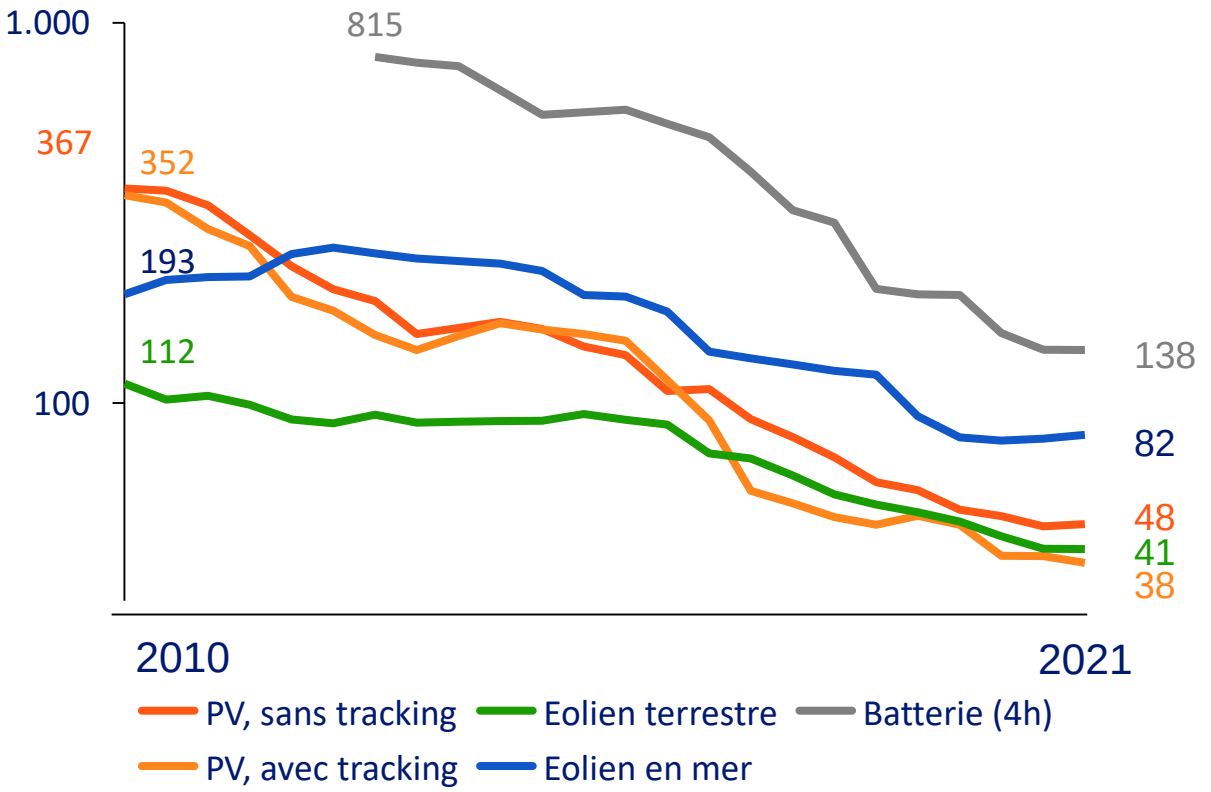
APPENDICES

Renewable energies, a fast-growing global market driven by falling costs



Changes in the Full Cost of Electricity (LCOE)

$/MWh (battery storage in $/kWh), nominal



Source: Bloomberg New Energy Finance (BNEF)

In 2022, the offshore wind farms in Saint Nazaire and Fécamp will be completed

Saint-Nazaire offshore wind farm


Arrival of the foundations (03/2021)


First foundation (05/2021)


Installation of the substation (08/2021)

2019

Start of construction

2020

Manufacturing of wind farm components in factory

Start of building works for the construction base and maintenance base

2021

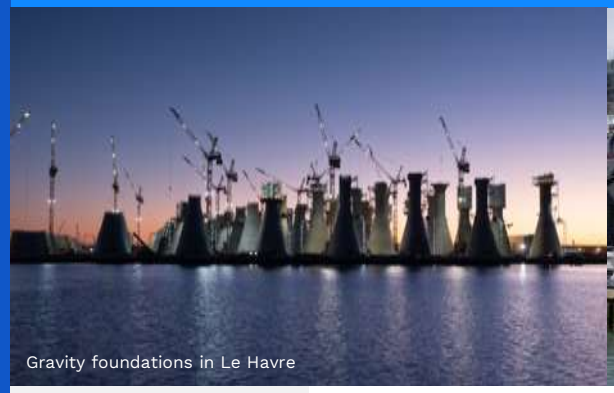
Offshore installation (the foundations, cables and electrical substation)

2022

Completion of the foundations, cables and installation of wind turbines

Commissioning for about 25 years

Fécamp offshore wind farm


Gravity foundations in Le Havre


Maintenance base in Fécamp

2019

Start of construction

2021-22

Preparation and manufacture of components

First offshore installations (foundation, connection, electrical substation)

2022-23

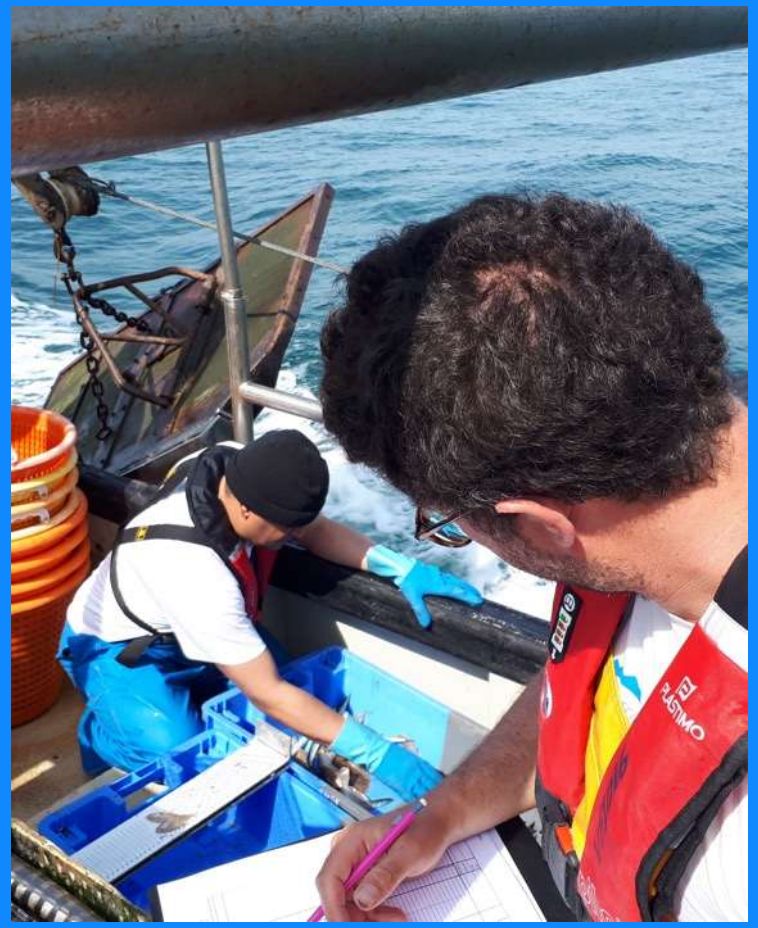
Continuation of offshore installation of components

>2023

Commissioning of wind farm (end of 2023)

Operation and maintenance for about 25 years

Projects designed to allow cohabitation with fishing



Dunkirk © Société Sinay

2011-2020: tendering and development phase

- → Selection of an area of least hindrance to fishing
- → Establishment of the consultation body
- → Adaptation of the technical characteristics to promote cohabitation: alignment of wind turbines, routing of electrical cables
- → Involvement of fishing communities in the site studies and sea trials
- → Sharing of existing **feedback** from European wind farms

2020-2024 : construction phase

- → **Progressive closure of the area and crossing corridors (world firsts)**
- → **Introduction of compensation measures**
- → Further consultation
- → **Monitoring studies of fishery resources**

From 2022: operation phase

- → Implementation of **maritime safety measures**
- → **Monitoring studies of fishery resources**
- → **Publication of scientific studies**

Potential for offshore wind development in France by 2050

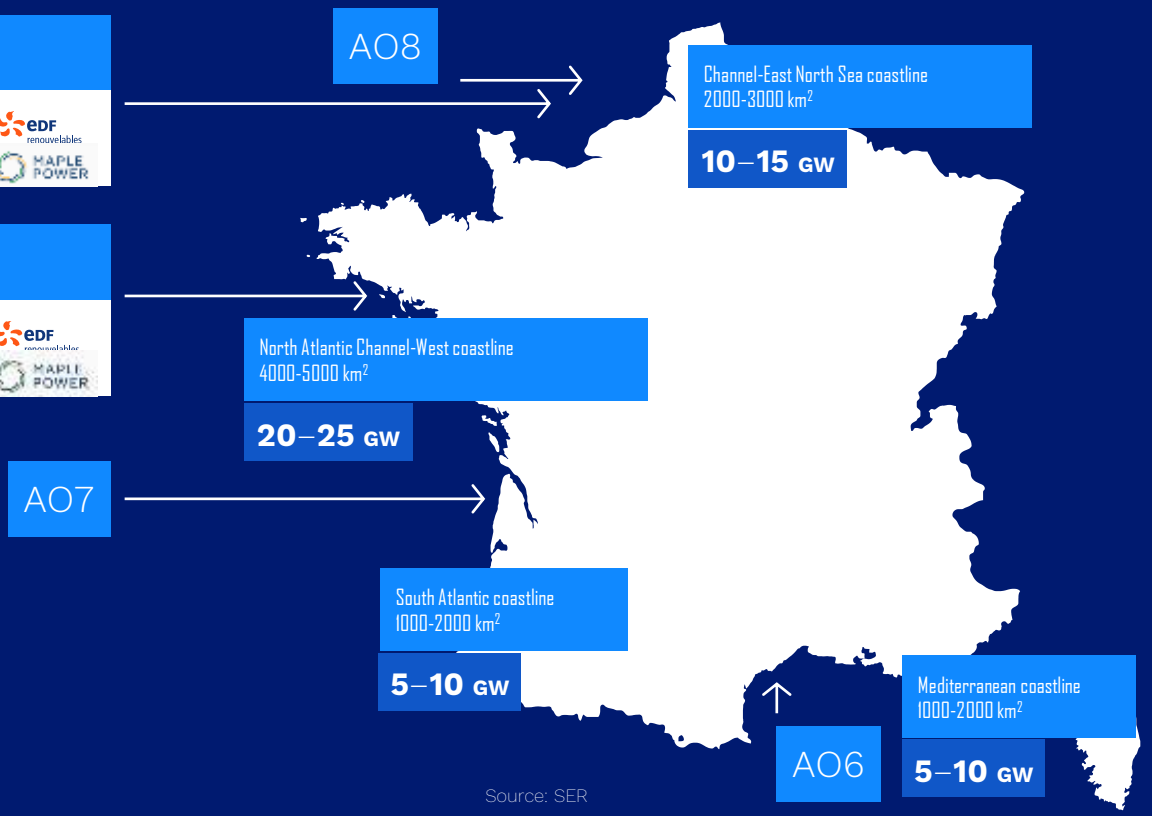
Estimation of the distribution of offshore wind capacities across the metropolitan maritime coastlines

AO4

Shortlisted Channel-Normandy offshore wind farm

AO5

Floating wind farms Bretagne Grand Large shortlisted



Source: SER

Landscape issues: consultation a fundamental aspect of EDF Renewables' approach

Dialogue, monitoring and "made to measure" co-construction throughout the duration of a wind farm project.
Cooperation with elected representatives, local authorities and residents in defining measures to improve the living environment, in accordance with the ERC (Avoid-Reduce-Compensate) approach.

From the outset of the project

Co-construction of the project with local stakeholders:

- → Discussions with elected officials, landowners, local associations
- → Setting up participatory processes open to all citizens, to enable them to participate voluntarily

During development and construction

- → **Work with landscape experts**
  Analysis of the site and proposals for the siting of wind turbines for better integration into the local landscape
- → **Information for the population** prior to the **submission of applications for authorisation**
- → During the public enquiry, **invitation to the residents to come and obtain information** and express their opinion on the project

During operation

- → **Possible awareness-raising actions on renewable energies**
- → **Additional energy production for the area** (self-consumption or production for the grid)
- → **Possible development of green tourism**
  - → Installation of information panels on wind energy
  - → Construction of shelters and tables for hikers
- → **Development of the area**
  - → Landscape diagnosis of the area carried out by a landscape gardener
  - → Creation of planted spaces
  - → Redevelopment of living areas

Customised management of biodiversity issues throughout the life of our land and sea facilities

Environmental assessment process(environmental impact study + ecological monitoring)

Stages of activity

Initial assessment of the natural environment

Identification of the potential of a site, inventory of protected species on site, understanding of natural habitats and ecological continuity, water, soil

Project design - Analysis and assessment of impacts

During the construction phase, operation phase and dismantling phase

"Avoid - Reduce - Compensate" approach

Avoidance, reduction and compensation measures for impacts that cannot be avoided or reduced (in accordance with environmental and governmental requirements)

Ecological monitoring

Comparison of the conclusions of the impact study with the reality on the ground, monitoring of construction sites by independent experts and EDF Renewables, monitoring of wind farms and power plants in operation, R&D programme to improve knowledge, sharing of study results (particularly fisheries)

Customised management of biodiversity issues throughout the life of our land and sea facilities

In France, the involvement of some thirty experts at EDF Renewables, independent experts and consultancies is part of the Group's environmental policy, which aims to preserve and enhance the biodiversity of our sites.

	Solar	Onshore wind	Offshore wind
Positive impacts	→ Creation of habitats → Provision of cover and feeding areas (e.g. pastures) for certain animals	→ Creation of suitable habitats for certain terrestrial species → Improvement of species knowledge (indirect)	→ Protection of biodiversity through the creation of restricted access areas → Improved knowledge of fauna and flora species → Reef impact
	→ Willingness to cooperate: partnership with voluntary organisations and scientists (FNE, LPO, FCEN, IUCN*) → Projects aimed at combating global warming		


Photomontage of the Saint-Romain-en-Gal solar power plant

* France Nature Environnement; League for Birds; Federation of conservatories of natural areas; International Union for Nature Conservation

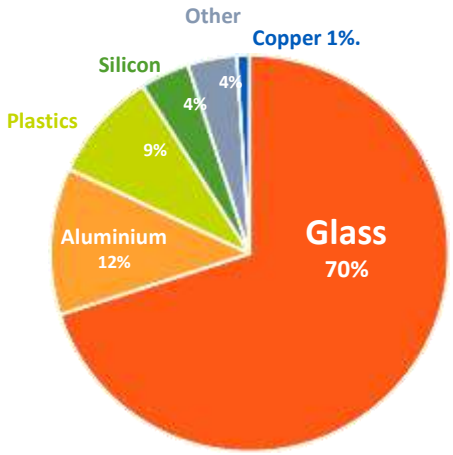
Recycling
How to recycle …

…a photovoltaic panel?

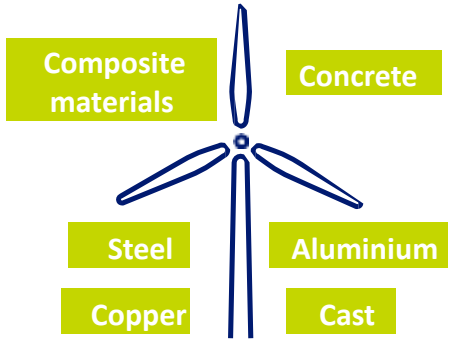
95%

recovery

PV CYCLE



… a wind turbine?



Today, 90%

of the mass of a wind turbine is reused or recycled.

Concrete foundations extraction + recovery into crushed gravel, or levelling at the request of the owner (inert material).

The remaining 10% are composite materials, notably in the blades, recovered as solid recovered fuel (SRF) for heat production.

R&D: working closely with wind turbine suppliers

Source: ADEME

EDF Renewables, a major player in offshore wind energy on the European continent