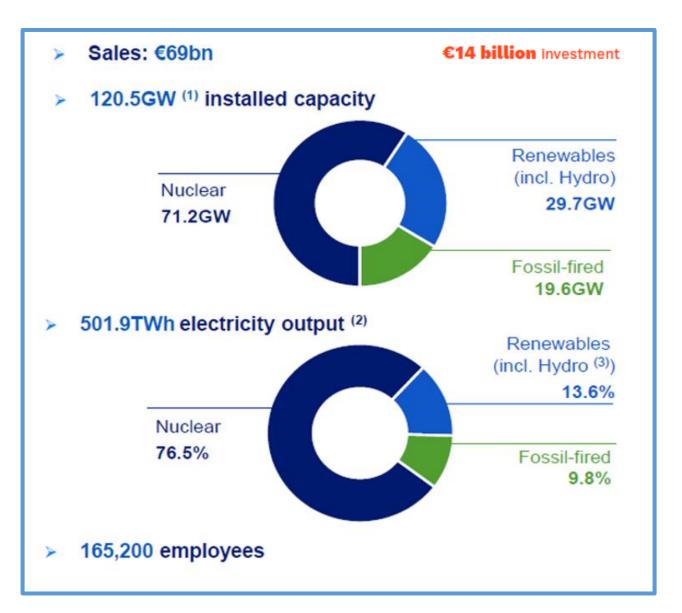


EDF VIEWS & INITIATIVES « MADE IN EUROPE »

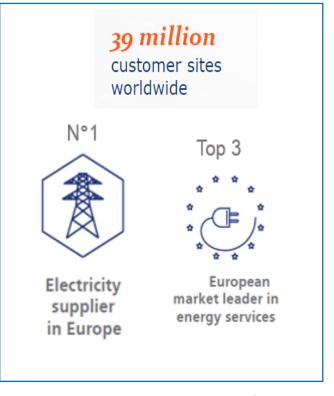


EDF GROUP 2020 KEY FIGURES

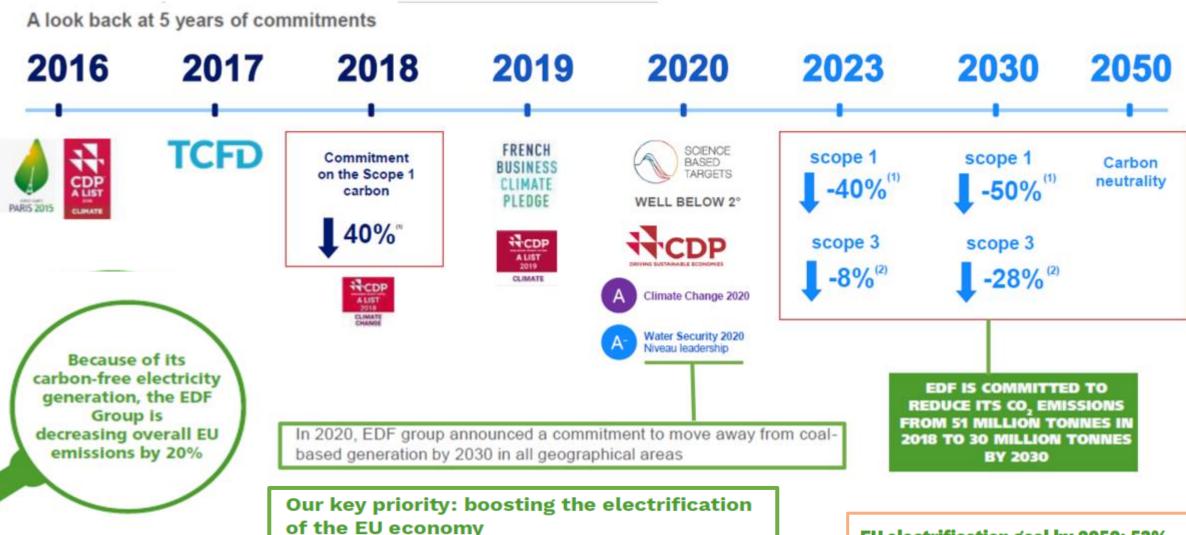








WORLD LEADER IN LOW-CARBON ELECTRICITY GENERATION



of the EU economy

EDF believes that decarbonising power production, while at the same time electrifying our energy use, is essential for reaching climate objectives and creating a carbon-neutral and energy efficient economy in the EU.



EU electrification goal by 2050: 53%

EU electrification rate today: 22%

CAP 2030 STRATEGIC TARGETS UPGRADE

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

A creator of services and solutions to support customers and territories in the shift towards carbon neutrality

>15MtCO₂ AVOIDED FMISSIONS (1)

€10bn revenues IN SERVICES (3)

> 1.5 CONTRACTS/CUSTOMER (2)

A global leader in the generation of CO₂-neutral electricity

50% co₂ eq DIRECT EMISSIONS

60gw NET.

>x2 NEW RENEWABLES CAPACITIES (INCL.HYDRO) VS. 2015

INITIATING NEW EPRs & 1 SMR An international key player in the energy transition

EXIT COAL

1.5-2gw NET

HYDRO INSTALLED CAPACITY(4)

1 MILLION OFF GRID KITS

... supported by the implementation of 3 new Plans :

LE PLAN mobilité ÉLECTRIQUE --

- Nº1 electricity supplier for electric vehicles
- N° 1 charging network operator
- Leader in smart charging

SOLAR POWER PLAN 30 GWC OF SOLAR POWER CAPACITY WITH PARTNERS IN FRANCE BY 2035

LE PLAN **ELECTRICITY** stockage STORAGE PLAN 10 GW of new storage capacity worldwide with €8 billion of investment by 2035

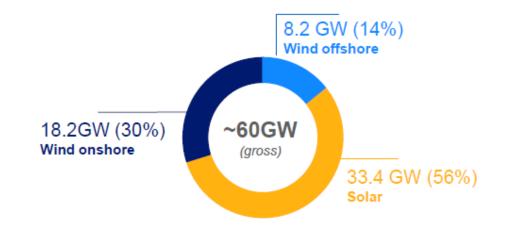
A PORTFOLIO OF WIND AND SOLAR PROJECTS OF ~ 60GW (1)

A PROJECT PORTFOLIO THAT IS **DIVERSIFIED GEOGRAPHICALLY...**

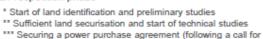
20.7GW 25.1GW 4.9GW

- Pipeline excluding capacities under construction. Gross data corresponding to 100% of the capacity of the projects concerned.
- (2) All the projects in prospection phase included in the pipeline, starting 2020
- 3) 2020 portfolio start of construction potential, not probability-based

... AND BALANCED BETWEEN WIND AND SOLAR

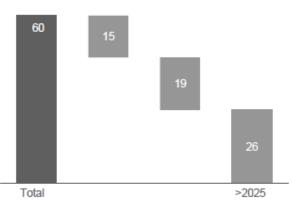




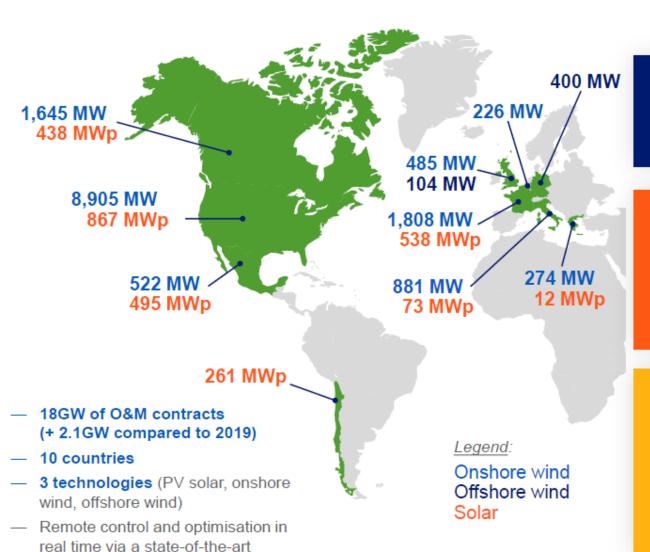


tenders, auction, OTC negotiation)





~ 18GW OF O&M: STRONG EXPERTISE, DIFFERENTIATING FACTOR



operations control centre and

technical teams in the field

OPTIMISED ASSET PERFORMANCE

- Digitalisation and supervision in real time, continuous innovation and predictive maintenance
- Ongoing data lake creation for asset performance optimisation

ENHANCED TECHNICAL EXPERTISE

- Continuous feedback on technical issues via O&M monitoring strengthening knowledge and understanding of industrial technologies
- A strong credibility vis-à-vis turbine manufacturers and third-party investors

REINFORCED
COMPETITIVENESS
DURING THE
DEVELOPMENT
PHASES

- Optimised price positioning in competitive processes
- Contract optimisation thanks to the competition between turbine suppliers for initial or renewal O&M contracts
- Early stage project optimisation (development, construction, etc.)

Exploiting new offshore potential with floating: Provence Grand Large (France, a floating project of 3 x 8.4MW located off the coast of Fos-Sur-Mer)

95% of the budget dedicated to decarbonisation & energy systems' transition

Tests and studies on pre-commercial products &

Lab testing (cells, modules) for performance assessment, aging models, post mortem analysis...

stationary applications.

(MASERA, EDF Lab Concept Grid).

innovations (including 2nd life); field tests & derisking

The EDF's spin-off Zinium develops a

metal-air battery that uses oxygen from air and

water to generate electricity, primarily for

INVESTING IN A WIDE SET OF FLEXIBLE SOLUTIONS



is a virtual connected platform to coordinate the generation, consumption and storage of green energy in real-time. Agregio is contributing to the rise of renewable energy by supporting market producers and by providing visibility for investors.

EDF's R&D has a computing capacity of 11 pétaFLOPS, making it one of the largest players in this field.

EDGi

REAL-TIME ACCESS TO ENERGY MARKETS

EDGi* is a platform that enables you to view real-time energy asset data, market pricing, invoices and how your asset is interacting with the wholesale markets. Its customizable reports and data provide insight into an asset's performance which helps you make optimisation decisions. EDGi is also available as a mobile application.

Digital & trading tools

VENTEEA

SMART GRID FOR WIND ENERGY

The Venteea project (France) aims to integrate renewable energies into the grid in an economically and technically efficient manner.

The EDF's power distribution subsidiary in France has developed new and innovative equipment and software and studied storage solutions as a means of stabilising the network.

> OFFSHORE WIND POWER

The Nice Grid project (France) is a smart solar

neighbourhood with 1,500 customers using smart

The EDF's power distribution subsidiary in France is working there to fine-tune its expertise in demand response and storage solutions to better manage consumption peaks and the numerous distributed

Development of multi-physical modelling tool for eliminating risks in the design of offshore wind turbines

Renewables integration

NICE GRID

meters.

A SMART SOLAR CITY

solar generation units in use.

Flexibility

energy transition by shrinking our carbon footprint and developing innovative solutions

Respond to needs for electricity flexibility and the

Electric Mobility

Storage



zınıum 🖟



Electric mobility at home and when traveling with the Izivia Pass



Hvdrogen

In 2018, EDF invested €16 million in McPhy, a key step aimed at developing lowcarbon hydrogen in France and internationally.

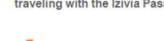


In 2019, EDF launched Hynamics, its business line offering low-carbon hydrogen for industry and heavy transport. Hynamics installs, runs and maintains hydrogen production facilities.



H2SHIPS is a project for the industrialisation of hydrogen solutions for river and sea transport. Use cases are: river passenger transport in Paris, river freight in Amsterdam and seagoing maintenance operations of

offshore wind turbines in Ostend.





In 2019, EDF launched DREEV to develop solutions based on Vehicle-to-Grid (V2G) technology. Smart management of charging and discharing car batteries establishes a balance between supply and demand, creating a value which is shared with customers.

HARGING STATIONS

EXPLORING NEW BUSINESS MODELS FOR THE ENERGY AND DIGITAL TRANSITION

INVESTMENTS MADE BETWEEN
SEPTEMBER 2017 AND DECEMBER 2020







A 3D TOOL FOR URBAN PLANNING

EDF has developed a 3D urban simulation platform that is being used by the Housing and Development Board in Singapore to build investment scenarios around concepts like energy efficiency, renewable energy development, smart grids, greening and mobility and evaluate their impact on energy consumption, CO₂ emissions, the environment and costs.



PRODUCTION-TOOL PERFORMANCE









Metroscope offers an automatic and reliable diagnosis of industrial installations to identify, in real-time and with great precision, a hazard affecting its industrial process and likely to generate a loss of production, a lasting deterioration of a component or even shutdowns. #Tech4Climate



Over 15

strategic venture capital funds

Over 20

start-up collaborations and creations



SERVICES FOR RESIDENTS



s⁹wee

The control of heating, air quality, the charging station of the electric vehicle, etc. by voice and by touch





DECENTRALISED ENERGY SYSTEMS





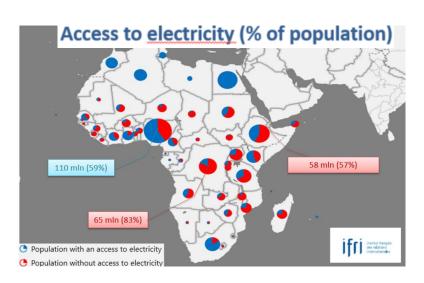


EDF Store & Forecast is a spin-in company which develops and sells software solutions to forecast, plan and optimise real-time control for renewable energy production combined with energy storage and load shedding.

WHAT NEXT? BUILDING BRIDGES BETWEEN EUROPE & JAPAN, INCLUDING OVERSEAS DEVELOPMENTS

- 1. OFFERING OUR SET OF LOW-CO2 SOLUTIONS TO 1/3 COUNTRIES COMMITTED TO DECARBONIZE, IN COOPERATION WITH JAPANESE COMPANIES (SHOSHAS & UTILITIES)
- 2. PARTNERING IN RENEWABLES PROJECTS (WIND OFFSHORE, HYDRO...) IN THE INDO-PACIFIC REGION
- 3. INVESTING JOINTLY IN NEW BUSINESSES AND FUNDS TO PREPARE THE FUTURE
- 4. PUTTING CARBON PRICING AS A PRIORITY ON A REALISTIC « EU-JAPAN AGENDA » IN ORDER TO DELIVER A STRONG AND PREDICTABLE SIGNAL TO NEW SUSTAINABLE INVESTMENTS
- 5. CONTRIBUTING TO A GROWING ACCESS TO ELECTRICITY IN TARGETED COUNTRIES

1/2 of Sub-Saharian population has no access to electricity, 700 million of people worldwide without clean cooking





THANK YOU

