

DISCLAIMER

This presentation is for information purposes only and does not constitute an offer or solicitation to sell or buy instruments, part of the company or the assets described here, in the US or any other country.

This presentation contains forward-looking statements or information. While EDF believes that the expectations reflected in these forward-looking statements are based on reasonable assumptions at the time they were made, these assumptions are fundamentally uncertain and imply a certain amount of risk and uncertainty which is beyond the control of EDF. As a result, EDF cannot guarantee that these assumptions will materialise Future events and real financial and other outcomes may differ materially from the assumptions used in these forward-looking statements, including, and not limited to, potential timing differences and the completion of transactions described therein.

Risks and uncertainties (notably linked to the economic, financial, competition, regulatory and climate backdrop) may include changes in economic and business trends, regulations, as well as those described or identified in the publicly-available documents filed by EDF with the French financial markets authority (AMF), including those presented in Section 2.2 "Risks to which the Group is exposed" of the EDF Universal Registration Document (URD). The URD, including the annual financial report as of end-December 2022, was filed with the AMF on 21 March 2023 (under number D.23-0122), and may be consulted on the AMF website at https://www.amf-france.org/ or on the EDF w

EDF does not undertake nor does it have any obligation to update forward-looking information contained in this presentation to reflect any unexpected events or circumstances arising after the date of this presentation.



BEFORE STARTING...

THE MAIN FOCUS OF THESE FACTS & FIGURES

- On the road to carbon neutrality:
 - EDF, world leader in low-carbon electricity generation
 - Strategy, CSR successes & carbon footprint
 - Nuclear: projects under construction, Small Modular Reactors (SMR) and EPR2 reactors
 - An overview of regulated activities (Enedis, Linky, etc.)
 - Updates on renewable energies (pipeline breakdown, etc.) and growth prospects

Did you know?

Reading suggestions

- You will also find « Did you know? » takeaway boxes throughout the document that shed light on specific content
- Much more information is available in our URD, which you can download via:

https://www.edf.fr/en/the-edf-group/dedicated-sections/investors-shareholders/financial-information/regulated-information/reference-documents

For more information, our team is available to you at this address: **EDF-IRTeam@edf.fr**

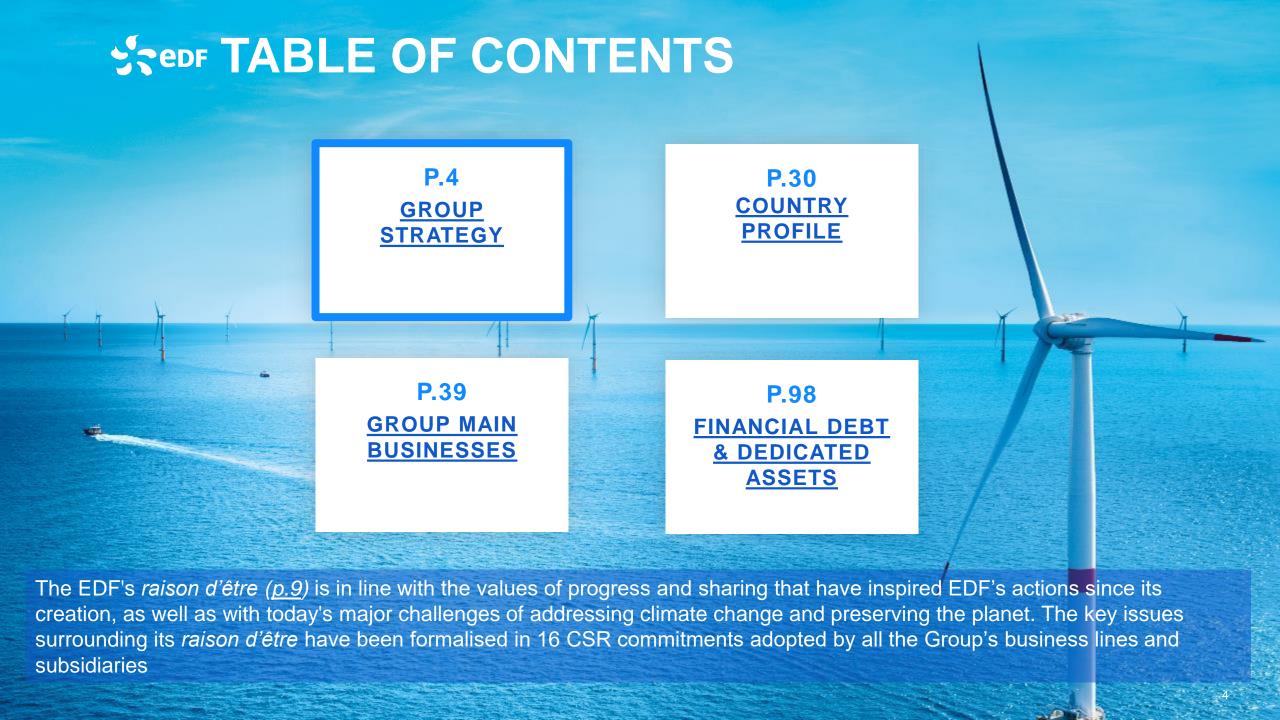
Browsing suggestions

- **Hypertext links** have been included to help you browse this document in tables of contents
- Clicking on the EDF logo (in the footer) will bring you back to the main table of contents (page 5)
- > The name of the chapter can be found at the bottom of each page. Clicking on the title of the chapter (in the footer) will bring you back to the beginning

of this chapter



THE EDF GROUP STRATEGY



GROUP STRATEGY

| | GROUP STRATEGY | P. 5 |
|---|--------------------------------|-------|
| > | CORPORATE RESPONSIBILITY - CSR | P. 16 |
| > | INNOVATION | P. 27 |



EDF GROUP 2022 KEY FIGURES

Operational figures as of end 2022

- > 40.3 million customer sites
- > 116.9GW installed capacity⁽¹⁾



- 58% Nuclear18% Hydropower9% Other EnR
- 10% Gas
- 2% Coal
- 3% Fuel Oil
- > 431.7TWh electricity output⁽²⁾



- 76% Nuclear
- 8% Hydropower⁽³⁾
- 6% Other EnR
- 9% Gas
- **0.4%** Coal
- 1% Fuel Oil

> 171,490 employees

o/w. \sim 64,000 at EDF SA, \sim 39,000 at Enedis, \sim 17,000 at Framatome, \sim 20,000 at Dalkia, \sim 11,000 at EDF Energy, \sim 6,000 at Edison & \sim 5,000 at EDF Renewables

2022 Financials

- Sales: €143.5bn
- EBITDA: -€5bn
- Net income excluding non-recurring items⁽⁴⁾: -€12.7bn
- Net investments⁽⁵⁾: €16.4bn
- Net financial debt : €64.5bn
 Green bonds issued on 2013-2022: €10bn
- Ratings⁽⁶⁾: BBB stable (S&P) / Baa1 negative (Moody's) / BBB+ stable (Fitch)

EDF, the world leader in low-carbon electricity generation

- Carbon intensity: 50gCO₂/kWh
- 90% decarbonised generation⁽⁷⁾
- 1st producer worldwide of zero direct CO₂ emission electricity in 2021 (476TWh)⁽⁸⁾
- 4gCO2eq/kWh: carbon footprint of nuclear life-cycle

- (1) Consolidated capacities of EDF Group.
- (2) Output from fully consolidated entities.
- (3) Hydro output including pumping.
- (4) Net income excluding non-recurring items is not defined by IFRS
- standards, also see note 19.1 of the consolidated financial statements.
- (5) Total net investments including acquisitions, excluding disposal plan.
- (6) Sources: rating agencies as of 03/04/2023.

- (7) Direct carbon emissions related to generation, excluding life cycle assessment of generation means and fuels.
- (8) Enerdata Power Plant Tracker (latest publication).

A COMMITMENT TO LOW-CARBON GROWTH



First producer worldwide of zero direct CO₂ emission electricity in 2021 (476TWh)⁽¹⁾

90% decarbonised generation⁽²⁾ thanks to nuclear 76% & renewables 14%

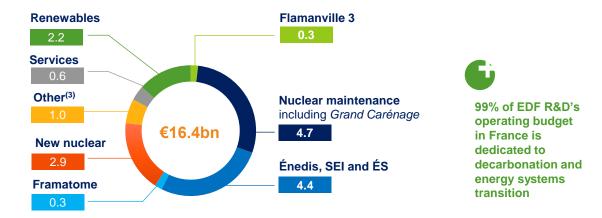
Group **capacity** mainly with **low-carbon technologies** (no direct emissions of CO₂, such as nuclear 58% & renewables 27%)

Renewable energy leader in Europe

Installed renewable capacity worldwide of **36GW** net at end-2022 with a target of **60GW net** in **2030**

94% of the Group's **investments** are made in accordance with its **carbon neutrality target**

Net investments – end-2022 (excluding disposal plan – in €bn)



- (1) Enerdata Power Plant Tracker (latest publication).
- 2) Direct carbon emissions related to generation, excluding life cycle assessment of generation means & fuels

Nuclear & renewable pipeline of projects

 Nuclear projects: 6 EPR2 to be developed in France and 3 EPR under construction:

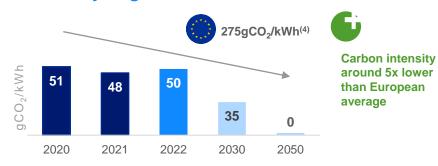




A large Group portfolio of renewable projects – end-2022

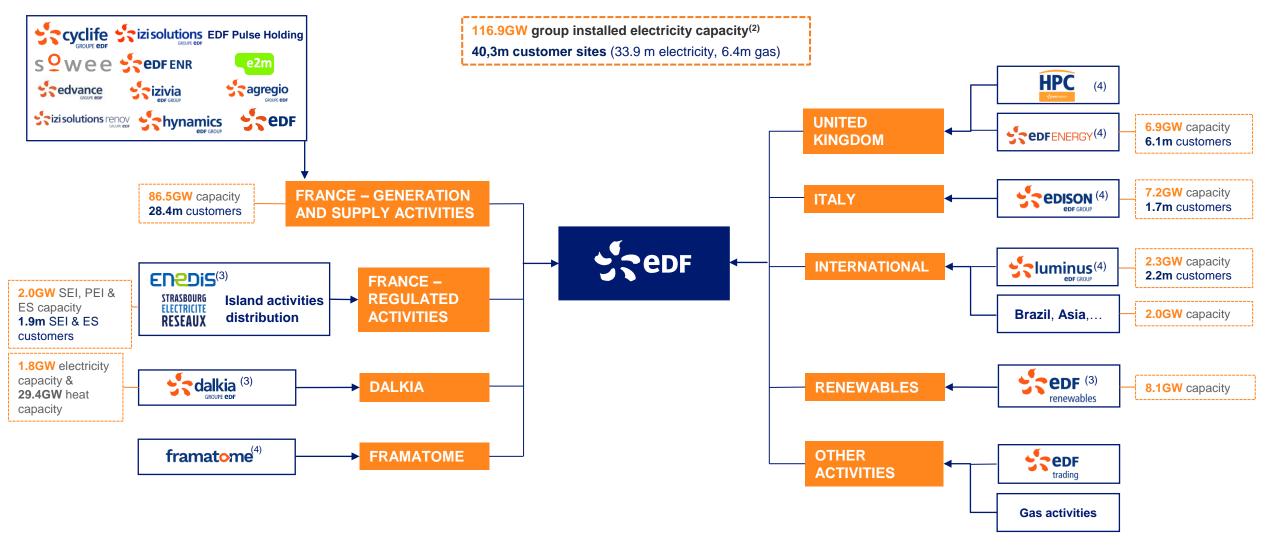


Carbon neutrality target in 2050



- (3) Mainly thermal maintenance, gas, property, central functions.
- (4) 2021 value, EU-27 carbon intensity average of power producers in Europe according to the European Environment Agency (EEA).

EDF GROUP: ORGANISATIONAL CHART BY SEGMENT(1)



(1) Simplified organisational chart at 17/02/2023

2022 FACTS & FIGURES

(2) Consolidated capacities of EDF group

- (3) French customers of these entities, grouped in the Retail entity in the "France Generation and supply activities" segment.
- (4) Shareholdings with minority interests.



THE EDF GROUP STRATEGY

CAP 2030 THREE STRATEGIC KEY PILLARS FOR 2030

The Raison d'être of EDF: 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

As a key player in the decarbonisation of society, EDF creates value for its customers through the energy and innovative solutions it provides

> **30mtCO**₂ avoided emissions⁽¹⁾

€10bn revenues in services(2)

> 1.5 contract/customer⁽³⁾

A global leader in the generation of CO₂-neutral electricity

EDF builds and operates electricity generation facilities that decarbonise the electricity mix and invests in innovative and competitive technologies



3 50% CO_{2eq} direct emissions vs 2017

60GW net renewables incl. hydraulic

Grand Carénage completion

5 EPR in operation⁽⁴⁾

Initiating new EPRs & 1 SMR

An international key player in the energy transition

EDF is deploying its expertise as a low-carbon energy company in new areas of growth and innovation, far from its historical borders



Zero coal

Tripling activity vs 2015⁽⁵⁾

1.5 – 2GW net hydro installed capacity⁽⁵⁾

1 million off-grid kits

- (1) Calculation of emissions avoided by products/services for renewable development in heating networks; energy efficiency; photovoltaic generation (excluding EDF facilities feeding their generation into the grid); electric mobility; residential heating pumps sold by EDF SA, Dalkia, Luminus, EDF in the UK, and Edison.
- (3) Scope of 4 priority countries in Europe called "G4" (France, Italy, the UK and Belgium) (residential).
- (4) Flamanville 3, Hinkley Point C and Taishan.
- (5) Excluding "G4" (France, Italy, the UK, and Belgium).



2022 FACTS & FIGURES THE EDF GROUP STRATEGY

BUSINESS MODEL

ASSETS AND RESOURCES

BUSINESS MODEL

VALUE CREATION - 2022

Customer proximity

- 33.9 million customers in electricity
- 6.4 million customers in gas
- · Leading brands: EDF, Edison, Luminus, Dalkia
- 157.5 million visits per year on digital consumption monitoring platforms

A human ambition

- **171,490** employees
- 79% of employees took part in a skills development initiative during the year

An ambitious innovative ecosystem

- 2,208 R&D employees
- R&D 2022 consolidated budget of €649m
- 740 patented innovations at end-2022 by the R&D (EDF & Enedis)

Major industrial assets

- 116.9GW of electricity generation capacity
- An integrated nuclear industry
- · EPR technology
- A portfolio of wind and solar projects of c.85GW gross
- 1.4 million km of distribution network
- 40.6 million smart meters installed
- Over 330 heating and cooling networks operated by Dalkia

A strong CSR commitment

- A rating **CDP Climate Change
- **€22.3bn** of green & sustainable funding

CAP 2030

Three strategic axes

to decarbonise our societies in France, in Europe and in the world:

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

A global leader in the generation of CO₂-neutral electricity

An international key player in the energy transition

Supported by an impulse of transformation, innovation, human ambition,
Corporate Social Responsibility commitments, and the implementation of 5 plans:











THE EDF GROUP STRATEGY

For the climate and the environment

- An ambition to contribute to carbon neutrality by 2050
- Electricity output of 431.7TWh,
 90% decarbonised with emissions of 50gCO₂/kWh
- EDF, a water sharing player: water intensity of 0.83l/kWh
- A commitment to biodiversity: an achievement rate of Act4nature international of 89%

For customers

- High customer satisfaction level
- Almost 477,000 energy advice actions for customers

For partners and territories

- SMEs account for 23% of EDF and Enedis procurements
- 1 direct job at EDF SA generates
 4.2 jobs on the national territory
- 100% of projects are subject to consultation

For employees

- An employee engagement index of 71%
- Women represent 30.8% in Management Committees
- An average salary equity ratio of **6.3**

Sales: **€143.5bn**

EBITDA: **-€5bn**

Net income excl.
Non-recurring items:

-€12.7bn

Sharing added value with our stakeholders



Purchases

€9.4bn

EDF group Global CSR agreement



States and territories
Taxes

€3.2bn



EmployeesRemuneration

€15.2bn



EDF HYDROGEN PLAN



TARGETS(1)

3GW gross of low-carbon electrolytic hydrogen projects developed by 2030 worldwide⁽¹⁾

A European leader with 100% low-carbon hydrogen generation in 2030⁽²⁾

from low-carbon grid electricity, renewable energy or nuclear power

Main markets addressed: **Industry and transport** (in territorial mobility and e-fuels for maritime and air transport)

- (1) Subject to the implementation of appropriate support policies and a favourable regulatory framework for the development of electrolytic hydrogen.
- (2) In line with the maximum emissions threshold defined in the European taxonomy, as part of its Hydrogen Plan, EDF is committed to ensuring that all its hydrogen production projects are below this threshold of 3kgCO₂eq/kgH₂
- (3) Eifer, joint research centre of EDF and the Karlsruher Institut für Technologie (KIT) in Germany.
- (4) IPCEI: Important Project of Common European Interest CEEAG: Guidelines on State aid for climate, environmental protection and energy. A 90% success rate at the different grant applications, both at national and European level.

ACHIEVEMENTS AND PROJECTS

A dedicated subsidiary and expertise within the Group

Hynamics, a wholly-owned subsidiary of the EDF group dedicated to hydrogen since 2019

Long-standing expertise provided by Eifer⁽³⁾ and R&D, including an electrolyser test platform at the EDF Lab *Les Renardières* site

A stake in **McPhy**, a French electrolyser manufacturer, since 2018 (14.1% to date)

Major projects under development with financial aids (within the framework of the IPCEI or the CEEAG⁽⁴⁾)

For Hynamics:

- The *Hynovi* project (330MW of electrolysis) in partnership with the cement manufacturer Vicat in France to produce e-methanol
- Also in France, the *ABC Ottmarsheim* project (50MW) with Boréalis to decarbonise ammonia production and the *HyDom* project (85MW) with Domo Chemicals
- In Germany, the Westküste project (30MW electrolyser) and the *Hyscale* project (700MW in phase 1), in partnership with the Heide refinery site to address its hydrogen needs

Notification of McPhy's gigafactory project (up to 1GW/year) in Belfort in the framework of the IPCEI

A portfolio of c. 60 projects representing 1GW of electrolysis worldwide

Several projects in Italy (Brindisi, Porto Marghera, Dalmine...), in the United Kingdom (Teesside, Sizewell...) and in Belgium

Ambitious projects combining hydrogen and renewables in the Middle East (i.e. Egypt), North America and Latin America

EDF ELECTRIC MOBILITY PLAN⁽¹⁾



TARGETS

30% MARKET SHARE IN THE ELECTRICITY SUPPLY FOR ELECTRIC VEHICLE OWNERS IN 2023

In the Group's four main markets (G4): France, the UK, Italy and Belgium

400,000

Charging stations rolled out by 2023

20,000

Smart charging stations operated by 2023

(1) The EDF Electric Mobility Plan supplements specific investments made in this field by Enedis, an independent subsidiary of EDF according to the French Energy Code.

ACHIEVEMENTS AND MAIN PROJECTS

Support to EDF's customers and European partners in their shift towards e-mobility:

IZIVIA and Pod Point selected partners by IVECO to help customers switching to electric light commercial vehicles and heavy duty vehicles

IZI by EDF selected by Nissan for the supply and installation of charging solutions for its residential customers

More than 280,000 charging stations installed and operated by the Group at end-2022

EDF ENR launched in partnership with IZIVIA a combined offer with solar panels and charging stations for B2B customers

Pod Point:

- around 70,000 charging stations rolled out in the UK in 2022
- secured growth financing through a fund raising (minority IPO)
- + 15,000 smart charging stations operated by Izivia in France and PowerFlex in California

V2G: DREEV obtained certification from RTE to supply remunerated system services to the transport grid via electric vehicles

EVVE: Certification by the European Commission of the project led by DREEV and EDF among the winners of the Innovation Fund's call for small-scale projects. The subsidy will be used to install 800 V2G stations by end-2024. 200 V2G chargers are already installed

"EV100" project in line with the objective

22.6% of the EDF group vehicle fleet electrified at end-2022, versus a target of 100% in 2030



2022 FACTS & FIGURES THE EDF GROUP STRATEGY

THE FRENCH SOLAR PLAN



TARGET

TO BE A LEADER IN FRANCE

30% MARKET SHARE⁽¹⁾ BY 2035

ACHIEVEMENTS AND PROJECTS



5.7**GW**

of ground-mounted projects in development at end-2022



570MW

of secured projects at end-2022



264MW

under construction at end-2022



141 MW awarded at CRE tender 5.1 and 5.2 (winner in March 2022 and August 2022)

1st ranking at PPE 2 calls for tender with 15% of market share



Acquisition of a 45% stakes in 2021 in Green Lighthouse Development, French solar project developer, established in Nouvelle-Aquitaine

(1) Market share expressed as installed gross capacities.



2022 FACTS & FIGURES THE EDF GROUP STRATEGY

THE ELECTRICITY STORAGE PLAN(1)



TARGET

DEVELOP 10GW IN NEW STORAGE SITES WORLDWIDE BY 2035, IN ADDITION TO THE 5GW OPERATED TODAY⁽²⁾



ACHIEVEMENTS AND PROJECTS

PROJECTS IN OPERATION OR SECURED OF 0.9GW AT END-2022

In 2022, the EDF storage plan pursued its development:

Significant progress achieved on projects under construction (> 300MW) despite supply difficulties in 2022, with raw material crisis, marine shipping congestion and Ukraine war

2 new projects launched in the UK by Pivot Power **for 100MW-200MWh** (Sundon 50MW-100MWh / Bredbury 50MW-100MWh)

152MW of new capacities commissioned over the world (US + UK + China)

Market perspectives show constant increase:

The market of storage remains booming and in constant increase year after year (cumulated installed capacity has doubled between 2020 and 2022)

EDF has identified a pipeline of more than 100 projects

- (1) The EDF group's business development model is based on partnerships. Not all of these projects will be fully consolidated.
- (2) Principally PSHP (Pumped-Storage Hydropower Plants).



THE EDF GROUP STRATEGY 14

THE EXCELL PLAN

Aiming for excellence in the French nuclear industry



15

Launched in May 2020, the excell plan aims to enable the French nuclear industry to regain the highest level of rigour, quality and excellence in order to meet the needs of existing and future major nuclear projects

EDF Group and the industry implemented 30 commitments, structured in 5 focus area



ACHIEVEMENTS AT END-2022

By the end of 2022, 27 of the 30 excell commitments⁽¹⁾ have been met or exceeded. The last 3 highly demanding commitments have been partially met and will be fully achieved in 2023

- **Governance**: the introduction of "Large projects control" has played a key role, with high requirements and results as regards the quality and scope-stability of current projects
- **Skills**: half of the industry workforce in 2030 to be hired. Gifen⁽²⁾ uses the MATCH programme to identify discipline by discipline the skills requirements over the next 10 years, and the Nuclear Industry University will beef up the regional training actions to ensure sustainably that the right resources are at the right place at the right time
- Manufacturing and Supply chain: EDF's selection of partners focused on quality produced and industrial potential, and shared risks and schedules and not only on cost reduction target.
 58 manufacturing companies have developed their own plans for excellence, resulting in already visible improvements in quality.
- **Standardisation:** the nuclear equipment standardisation and replication objectives were reinforced by the drawing up of 22 required-use catalogues. This paves the way for future mass production with improved quality control

The excell plan is now entering a new phase aimed at enduringly embedding its principles in the company

- (1) All of these commitments are available at the following address: https://www.edf.fr/plan-excell.
- (2) Groupement des Industriels Français de l'Energie Nucléaire. Nuclear Energy French Industry Group.

2022 FACTS & FIGURES

THE EDF GROUP STRATEGY

GROUP STRATEGY

| | GROUP STRATEGY | P. 5 |
|---|--------------------------------|--------------|
| > | CORPORATE RESPONSIBILITY – CSR | P. 16 |
| > | INNOVATION | P. 27 |



1 RAISON D'ÊTRE(1), 4 PILLARS, 16 CSR COMMITMENTS

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

CARBON NEUTRALITY & CLIMATE

- · Ambitious carbon trajectory
- Carbon offsetting solutions
- Adapting to climate change
- Developing electricity use and energy services



WELLBEING & SOLIDARITY

- Safety, health and security for all
- Ethics, compliance and human rights
- Equity, diversity and inclusion
- Energy poverty and social innovation

PRESERVATION OF THE PLANET'S RESOURCES

- Biodiversity
- Responsible land management
- Integrated and sustainable water management
- Radioactive and conventional waste, and circular economy



RESPONSIBLE DEVELOPMENT

- Dialogue and consultation with stakeholders
- Responsible regional development

17

- Development of industrial sectors
- Data responsible company

- (1) EDF's Raison d'être, approved by the Shareholders' Meeting of 07/05/2020.
- Priority SDGs as defined in WBCSD public report: "An SDD Roadmap for Electric Utilities".



16 KPIs FOR MEASURING THE 16 CSR COMMITMENTS



18

| | CSR COMMITMENTS | KEY PERFORMANCE INDICATORS | TARGETS | 2020 | 2021 | 2022 | DEAD- LINE | SCOPE |
|---|--|--|-------------------------------|---------|---------|---------------------|---------------|----------------------|
| Planet resources Carbon neutrality perservation & climate | Ambitious carbon trajectory II | Carbon intensity: specific CO ₂ emissions from electrical generation and heat | 35gCO ₂ /kWh | 51 | 48 | 50 | 2030 | Group |
| | Carbon offsetting solutions I | Deployment rate of the framework guidelines on carbon offsetting solutions within concerned entities | 100% | - | 50 | 50 | 2023 | Group |
| | Adapting to climate change I | Deployment rate of new climate change adaptation plans within concerned entities | 100% | - | 47 | 100 | 2022 | Group |
| | Developing electricity use and energy services I | Avoided CO ₂ emissions thanks to sales of innovative goods and services | >30Mt ⁽²⁾ | - | 4.4(1) | 11.4 ⁽²⁾ | 2030 | Group ⁽²⁾ |
| | Biodiversity I | Achievement rate of "Act4nature international" commitments | 100% | 44 | 67 | 89 | 2023 | Group |
| | Responsible land management I | Implementation rate of innovative solutions encouraging multifunctional land use | 100% | - | 20 | 40 | 2026 | Group |
| | Integrated and sustainable water management II | Water intensity: water consumed / electricity generated by fleet | <0.95l/kWh | 0.87 | 0.86 | 0.83 | Annual | Group |
| | Radioactive and conventional waste, and circular economy I | Annual rate of conventional waste directed towards a waste recovery industry | >90% | 91.9 | 92.7 | 88.4 | Annual | Group |
| Wellbeing & solidarity | Safety, health and security for all I | Global LTIR | <1.8Ind | 1.9 | 2.1 | 1.9 | 2023 | Group |
| | Ethics, compliance and human rights I | Annual rate of feedback to whistleblowers within the one-month time limit, informing them of the admissibility of their report and the next steps of the procedure (New) | 100% | - | - | 100 | Annual | Group |
| Vellb | Equity, diversity and inclusion I | Percentage of women in the Management Committee of the Group's entities | 33% | 28.7 | 29.8 | 30.8 | 2026 | Group |
| 5 | Energy poverty and social innovation I | Advisory actions carried out with customers within the framework of the Energy Support Service | 600,000 – 1,000,000 | 905,017 | 642,482 | 476,638 | Annual | EDF |
| | Dialogue and consultation with stakeholders I | Annual rate of projects for which a dialogue and consultation procedure is engaged | 100% | - | 100 | 100 | Annual | Group |
| Responsible development | Responsible regional development I | Annual rate of procurement from SMEs in France | 22% to 26% | 23.4 | 24.9 | 23.2 | Annual | EDF & Enedis |
| espor | Development of industrial sectors I | Achievement rate of supporting actions backed by EDF, encouraging relocation and maintaining nuclear industry skills ("France Relance" Programme) | 100% | - | 28.6 | 71.4 | 2023 | EDF |
| ™ o | Data responsible company I | Achievement rate of EDF commitment to the French Responsible Digitalization Institute (INR) | 100% | - | 18.8 | 52.5 | 2024 | EDF |

⁽¹⁾ Data calculated in 2021 for EDF and Dalkia, on a smaller scope of services.

II : audited with reasonable assurance.





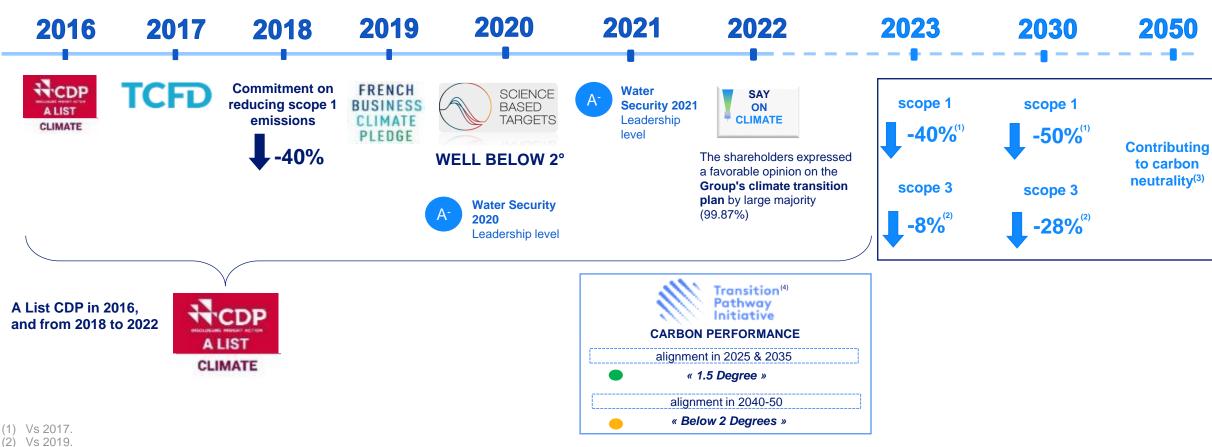


⁽²⁾ New Target at G4 scope and integrating new products & services.

EDF, A COMPANY COMMITTED TO PROTECTING THE CLIMATE



Ever since the Paris Agreement, EDF has been constantly strengthening its actions and responsibility on climate issues. The Group is committed to reducing its direct and indirect emissions, fostering its climate governance and maintaining its CDP Climate leader position.



Across all geographies and all scopes. Meaning: bring direct emissions close to zero (scope 1), reduce indirect emissions as much as possible (scope3), compensate residual emissions through negative-emission projects (3 scopes).

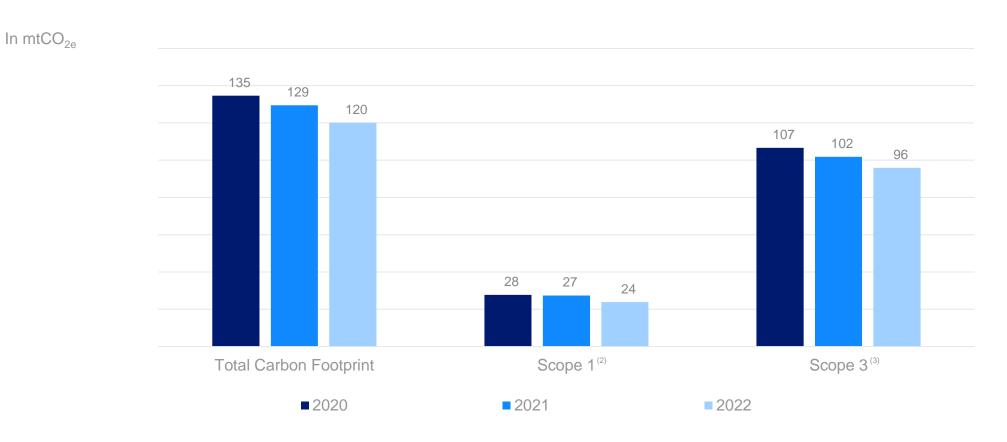
https://www.transitionpathwayinitiative.org/companies/edf



CARBON FOOTPRINT⁽¹⁾



Carbon footprint in constant decrease, -7% of CO₂ emissions in 2022 and -21% on 2019 to 2022



⁽¹⁾ The Greenhouse Gas Protocol Initiative, more commonly known as the GHG Protocol, is the most internationally recognized GHG accounting method. Introduced in 1998 by the World Resources Institute (WRI) and the World Business Council for Sustainable Development (WBCSD), it was developed in partnership with companies, NGOs, and governments. https://ghgprotocol.org/.

⁽³⁾ Scope 3 covers other indirect emissions generated by EDF suppliers, and by EDF customers or at our facilities. For information, scope 2 (non material) covers indirect emissions linked to losses in the electricity networks of EDF's electricity distribution companies and those linked to the purchase of energy for EDF's own needs.



⁽²⁾ Scope 1 covers the direct emissions generated by EDF's asset.

CLIMATE REPORTING IN ACCORDANCE WITH TCFD GUIDELINES



The EDF Group was one of the first companies in the world to commit to supporting the TCFD⁽¹⁾ initiative in 2017 and to report publicly, from 2018, on the impact of climate change on its organisation according to the 4 fundamentals of TCFD and identified in its Statement on Non-Financial Performance since 2018



THE FOUR FUNDAMENTALS
OF THE TCFD
RECOMMENDATIONS

REPORTING 2022

STRENGTHENING OF CLIMATE GOVERNANCE

The « climate » criterion, based on carbon intensity, represents 30% of the Group's share of executive bonuses. In 2022, the target objective was 56gCO₂/kWh with a result of 50, the achievement rate is 120%

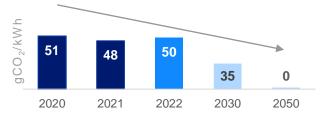
CARBON PRICES FOR GUIDING INVESTMENTS

In line with the 2021 CDP, the carbon price range currently used by EDF for its scenarios is 50 to 160€/tCO₂ by 2040, with a median price of 90€/tCO₂

RISK MANAGEMENT AND SCENARIO ANALYSIS

Validation by the Executive Committee and operational deployment of new adaptation plans to the physical risks of climate change, in all concerned entities

A AN AMBITIOUS CARBON INTENSITY TRAJECTORY



⁽¹⁾ The Task Force on Climate Related Financial Disclosures (TCFD), set up by the Financial Stability Board (FSB), made specific recommendations between 2015 and 2017 on the climate reporting elements expected in companies' universal registration documents.



CSR SUCCESSES





SUSTAINABLE FINANCING

€10bn OF GREEN BONDS issued since 2013

€22bn GREEN & SUSTAINABLE FUNDING(1)

72% OF BACK-UP CREDIT LINES INDEXED ON CSR KPIs
i.e. a total of €10bn(2)

7.4MtCO₂/YEAR AVOIDED thanks to the projects funded by the green bonds

JUST TRANSITION

Publication of EDF's 2022 Just Transition report for a fair and inclusive energy transition⁽³⁾

DECARBONISED GENERATION & INVESTMENTS

90% DECARBONISED GENERATION(4)
IN THE WORLD

(o/w 90% in the European Union)

~94% OF INVESTMENTS
IN LINE WITH THE GROUP
CARBON TRAJECTORY

IMPACT SCORE

EDF, 1st large French group to publish its impact score⁽⁵⁾:

68/100

above the average for companies (6)

- (1) Including credit facilities.
- (2) Over a total of €14bn at 31/12/2022.
- (3) See the Just Transition report.
- (4) Direct output-related CO₂ emissions, excluding life-cycle analysis of fuel and generation means. Electricity generation of fully consolidated entities.
- (5) According to the methodology of Impact France Movement which is used to assess and map at 360 the impact of businesses with the aim to improve their ESG approach.
- (6) The average score for companies having reported their impact score in Q1 2022 was 55/100.

NON-FINANCIAL RATINGS & AWARDS



MAINTENANCE IN THE MAJOR NON-FINANCIAL INDEXES:

(Non-exhaustive list)

MSCI 🌐

- World Climate Change
 - Climate Paris Aligned
- EU Low Carbon Leaders



- CAC40 ESG
- Vigeo World 120
- Eurozone 120
- Vigeo France 20

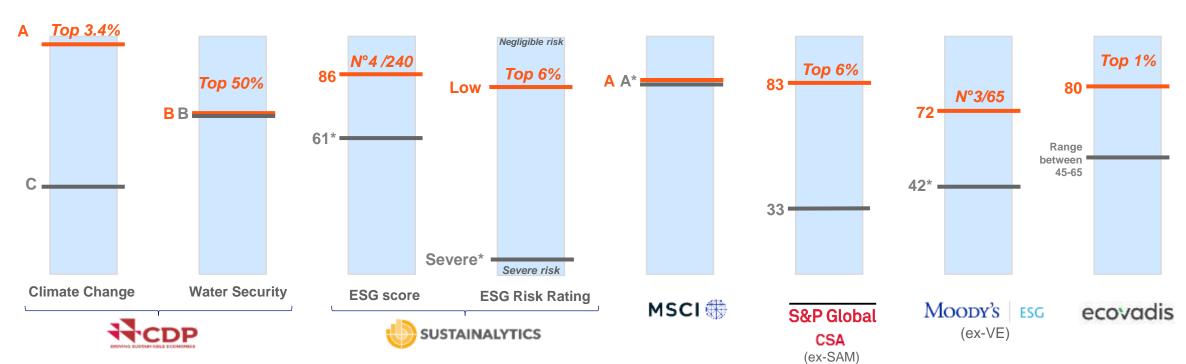
Other

 STOXX Global ESG Leaders



Global average

* Sector average



EDF is one of the 5 companies cited as an example of best practice by the **wbcsd**

2022 FACTS & FIGURES

MAIN INTERNATIONAL COALITIONS OF EDF









EDF, winner of the ESG
Transparency Award by
Labrador France



NEW GREEN FINANCING FRAMEWORK IN JULY 2022



RESPECTS THE GREEN BOND PRINCIPLES

Since 2013, EDF's Framework has followed the requirements and key recommendations of the ICMA Green Bond Principles including robust transparent annual impact reporting. This framework is subject to an annual verification report



ALIGNED TO THE EU
TAXONOMY

The Framework includes only eligible project categories with investments that **are fully aligned to the EU Taxonomy**, including the technical screening criteria « Do No Significant Harm » (DNSH) and minimum social safeguards



BEST IN CLASS

The Framework has been subject to an independent second party review, CICERO Shades of Green which has awarded it a certified « Medium Green » rating and « Likely aligned »⁽¹⁾ with the EU Taxonomy



(1) CICERO Shades of Green uses the terminology "likely aligned/partially aligned/not aligned". The term "likely" is not to indicate an uncertainty in CICERO's assessment but is meant to reflect the current lack of official authority as a verifier of the EU Taxonomy.



GREEN FINANCING FRAMEWORK FOLLOWS BEST MARKET PRACTICES AND IS ALIGNED WITH THE EU TAXONOMY



First company to issue a Green Bond in 2013. Active member of the Green Bond Principles governance and co-founder of the Corporate Forum on Sustainable Finance

3 updates of the Framework in order to contribute to better market practices, to be aligned with the European Taxonomy and include Green Bonds, Green Commercial Paper and Green Repo

1 - USE OF FUNDS

- · Use of Proceeds shall be limited to projects in the below eligible categories
 - Renewable power projects,
 - Hydropower generation,
 - Energy efficiency projects,
 - Distribution of electricity,
 - Nuclear power generation
- Eligible investments shall align with the EU Taxonomy, including "Do No Significant Harm" criteria and minimum social safeguards
- Look-back period limited to three calendar years from the issuance year

2 - PROJECT SELECTION PROCESS

- An ad-hoc working group is responsible for helping EDF entities identify green bond eligible projects and verifying their eligibility
- EDF currently verifies and reports Taxonomy eligible CAPEX and according
 to the Taxonomy regulation and Taxonomy complementary delegated acts. As
 of 2021 EDF reports these amounts in its Universal Registration Document.
- EDF shall exclude projects already financed by its social bond program.
- Investments may include tangible or intangible assets, Investments and some operating expenditures (such as R&D and investments in the maintenance of green assets)

3 - FUND MANAGEMENT

- Funds are managed and monitored separately until they are allocated to eligible projects. They are invested in Socially Responsible Investments funds⁽¹⁾ until their allocation
- Net proceeds of green bond issuances identifying nuclear power generation as an eligible project shall be managed in a portfolio separate from other issuances to ensure full traceability
- EDF shall use best efforts to allocate all eligible proceeds within 24 months after issuance

4 – REPORTING

- At half-yearly intervals: allocation of funds
- Annually: allocation of funds + list of projects financed and environmental impacts (at the level of each green issue) in URD

5 – EXTERNAL REVIEW

- External ex-ante opinion: "Medium Green" rating and "Likely aligned" with the EU Taxonomy by Cicero on EDF's Green Financing Framework
- Ex-post certification: annual report issued by an external auditor on the allocation of funds and the compliance of Green Bond issues with the Green Financing Framework, the Green Bond Principles, the compliance of the CO₂ emissions calculation terms



(1) Socially Responsible Investments funds, as certified by the French Ministry of Finance's Label ISR.

GREEN BONDS: PROCEEDS ALLOCATION AND IMPACT REPORTING



| Issue date | Fund raised | Funds allocated | Projects financed by the Green Bond | Part of the total investments financed by the Green Bond | Total net ⁽¹⁾ capacity o the project financed (in MW) | |
|------------|------------------|--------------------|--|--|--|--|
| Nov. 2013 | 1.4Md€ | 1.4Md€ | EDF Renewables projects | 59% | 976 | 1.55 |
| Oct. 2015 | 1.25Md\$ | 1.25Md\$ | EDF Renewables projects | 58% | 815 | 1.83 |
| Oct. 2016 | 1.75Md€ | 1,248M€ | EDF Renewables projects | 54% | 962 | 1.61 |
| OCI. 2010 | 1.7 SWIGC | 502M€ | EDF Hydro operations | 100% | 903 | 0.01 |
| lan 2047 | 20.000111 | 14,021M¥ | Wind projects (EDF Renewables, Luminus) | 15% | 86 | 0.12 |
| Jan. 2017 | 26,000M¥ | 11,979M¥ | EDF Hydro operations + Luminus hydro project | 87% | 133 | 0.01 |
| Sept. 2020 | 2.4Md€ | 2,246M€ | Projects & portfolio purchases by EDF Renewables, EDF ENR & Luminus projects | 78% | 1,412 | 1.35 |
| • | | 138M€ | EDF Hydro operations and biodiversity projects | 100% | 123 | 0.001 |
| Nov. 2021 | 1.85 M d€ | 1,139M€ | EDF Renewables projects EDF Hydro operations and biodiversity projects | 60% 98% | 895 422 | 0.88 0.001 |
| | | | | Total | 6,727 | 7.361 |
| Issue date | Fund raised | Funds allocated | Projects financed by the Green Bond | Part of the total investments financed by the Green Bond | Renewable capacity connected (in MW) | Number of New grid lines built (in km) |

by the Green Bond

100%

The detailed list of EDF Renewables projects and hydraulic investment operations by category are published in EDF's 2022 URD.

1.25Md€



Oct. 2022

2,950

5,488,000

5,181

1.25Md€

Distribution of electricity projects

⁽¹⁾ Sum of the impacts of each project weighted by the share of total investment funded by the corresponding Green Bond.

GROUP STRATEGY

| > | INNOVATION | P. 27 |
|---|--------------------------------|-------|
| > | CORPORATE RESPONSIBILITY - CSR | P. 16 |
| | GROUP STRATEGY | P. 5 |



INNOVATION: EDF PULSE, INCUBATOR OF INTERNAL PROJECTS AND **INVESTMENTS IN START-UPs**

The EDF group has created an Innovation Division to identify and develop new activities and innovative solutions required to reach net zero in 2050

6 strategic areas for innovation

with examples of start-ups supported⁽¹⁾



Decarbonation solutions and services for all







Decentralized energy systems



Operational performance and end-of-life management of existing generation and storage assets









Carbon capture, premium offset and utilisation solutions







Carbon free energy generation and storage solutions of tomorrow





Societal trends





22 start-ups in the 2022 portfolio

+10,000 start-ups identified by the open innovation team







28

R&D: INNOVATE TODAY AND VENTURE INTO TOMORROW

Through the expertise of its researchers, its testing resources and digital capacity, EDF R&D is preparing the future and opening up new possibilities in the world of energy.

EDF's R&D covers all the business areas and activities in the energy sector.

In line with EDF group's raison d'être and CAP 2030 strategy, its research focuses on four main priorities:

- Decarbonising our client's uses thanks to electricity
- Strengthening the performance of generation assets
- Inventing tomorrow's energy systems
- Accelerating digital transformation

- R&D mobilises its energy experts for the benefit of the EDF group entities and subsidiaries, as well as external customers.
 It relies on more than 70 platforms for testing, measurement and simulation, among the most modern and effective in the world, in all areas
- R&D also provides its customers with expertise in large-scale digital simulation software and supercomputers.
 EDF's R&D has a computing capacity of 11 petaFLOPS, making it one of the largest players in this field.



EDF SA'S R&D IN 2022

- **2,208 employees** worldwide (EDF SA)
- > 128 PhD students in France
- 9 research centres:
 - 3 in France
 - 6 internationally (Germany, United Kingdom, China, United States, Singapore and Italy)
- 20 joint laboratories with partners
- +300 academic and industrial partnerships around the world
- > **740 patented innovations** protected by 2,189 property titles in France and abroad
- **► €473 million budget** in 2022 (EDF SA)
- 99% of R&D operating budgets in France dedicated to decarbonation and energy system transition

R&D PRESENT IN ALL KEY TECHNOLOGIES FOR THE ENERGY TRANSITION

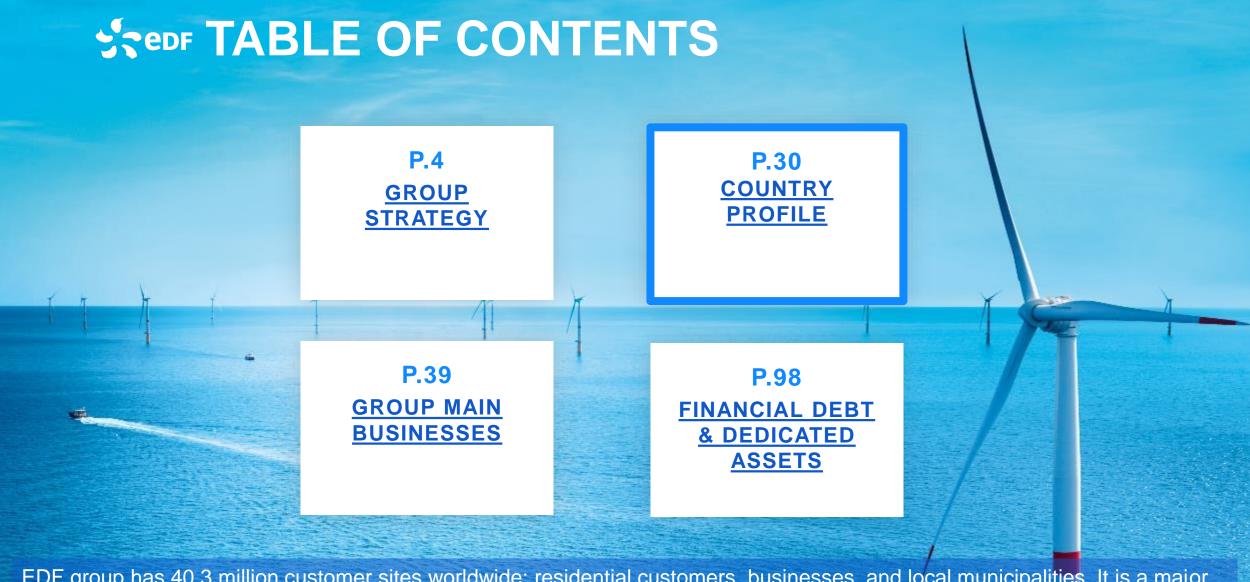
Based in regions home to a wealth of innovative technologies and business models, EDF's international research centres manage or support key Group projects **on microgrids**, **hydrogen**, **offshore wind**, **and mobility**

Three research centres in France and six internationally, as well as an office in Brussels.



2022 FACTS & FIGURES

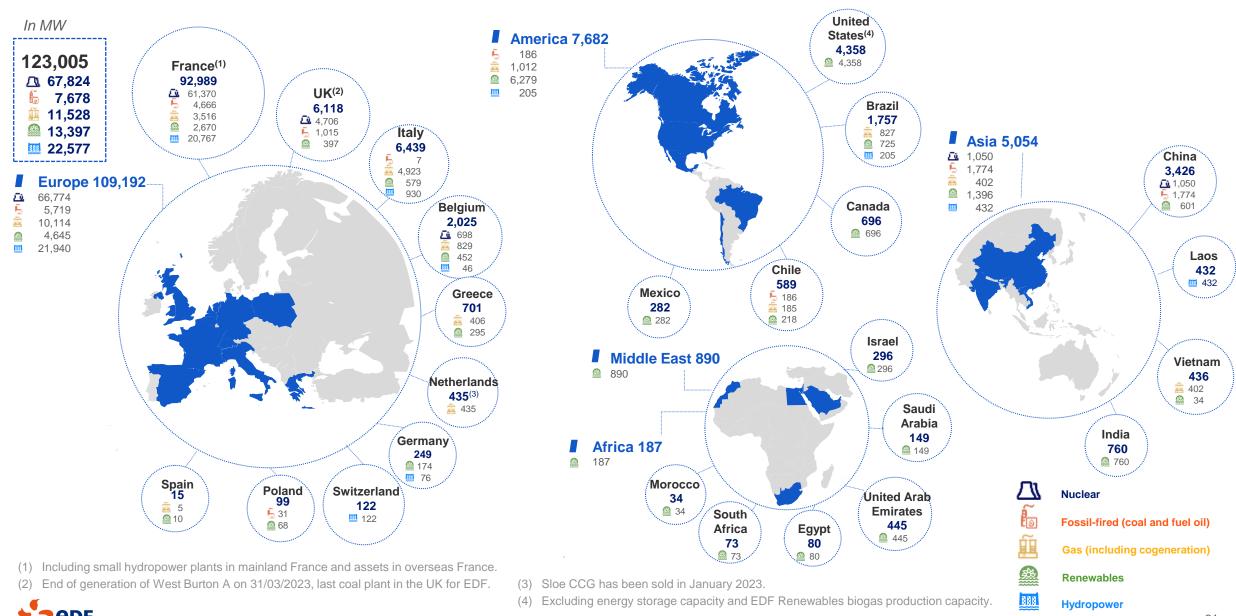
THE EDF GROUP INNOVATIONS



EDF group has 40.3 million customer sites worldwide: residential customers, businesses, and local municipalities. It is a major energy provider on key European markets: France, the UK, Italy and Belgium. The Group is seeking to move into new geographical areas, developing low-carbon solutions in growing countries and strengthening its positions in Europe

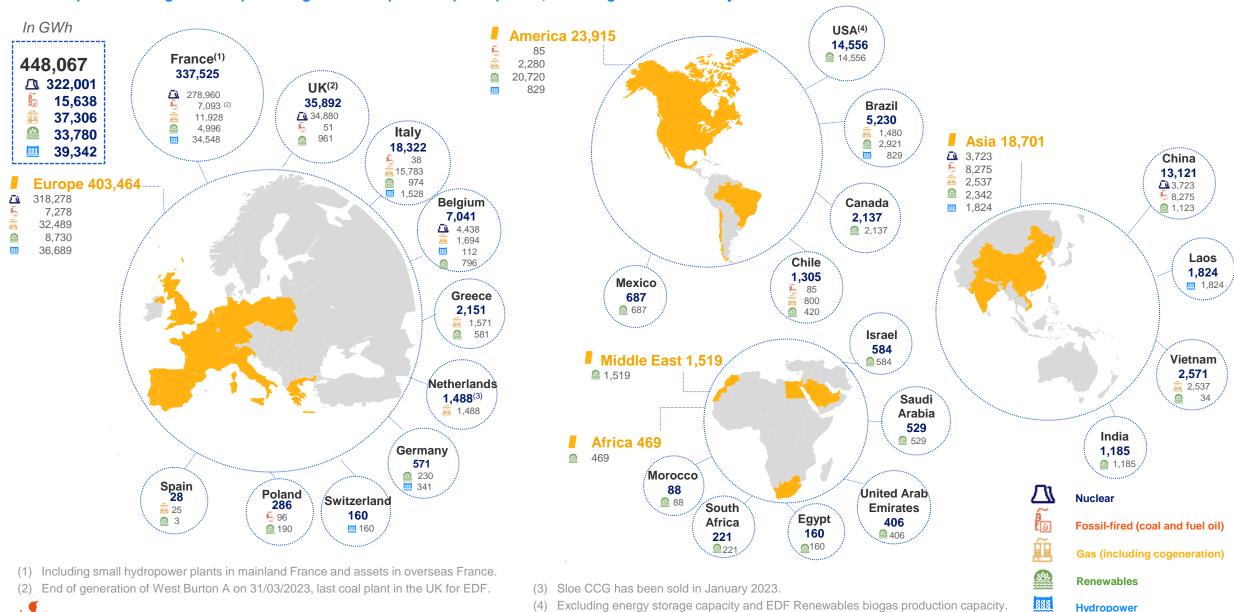
EDF GROUP'S NET INSTALLED CAPACITY* BY COUNTRY AT END-2022

* Net capacity according to EDF's percentage ownership in Group companies, including associates and joint ventures.



EDF GROUP'S NET OUTPUT* BY COUNTRY IN 2022

* Net output according to EDF's percentage ownership in Group companies, including associates and joint ventures.



32

FRANCE: GENERATION AND SUPPLY ACTIVITIES OF EDF

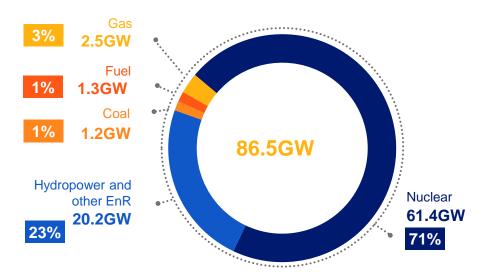
- Key points:
 - Active across the whole electricity value chain, from generation to sales and optimisation/trading
 - Owning the largest nuclear fleet worldwide (o/w 56 operating reactors in France)
- 2022 key figures:
 - -€23.1bn: EBITDA
 - 28.4m of customer sites (26.2m: electricity and 2.2m: gas)

- ~**61,000**: workforce
- **96%**: CO₂-free generation⁽¹⁾

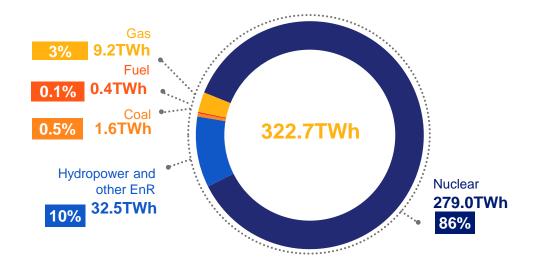
And for this country:

- Holding 100% of **EDF Renewables** (see <u>p.55</u> ff.), EDF ENR, EDF International and, including gas activities (see p.96)
- Shareholding in various companies o/w Dalkia (energy services provider and Dalkia Electrotechnics/Citelum) (see <u>p.94</u>)
 Framatome (see <u>p.45</u>) (supplier in the nuclear industry)

Installed capacity⁽²⁾



Electricity generation(2)



- (1) Direct emissions, excluding life cycle analysis of generation means and fuels.
- (2) Fully consolidated data as of 31/12/2022. The values correspond to the expression to the first decimal place or to the nearest integer of the sum of the precise values, taking into account rounding.



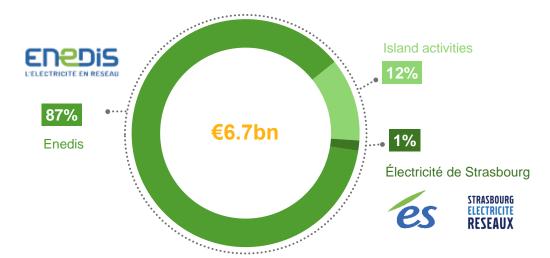
33

FRANCE: EDF-REGULATED ACTIVITIES (ENEDIS, ÉS(1) & ISLAND ACTIVITIES)

- **Enedis** (see <u>p.71</u>)
- The largest distribution grid in Europe and the main distribution grid in France: connected to 95% of the metropolitan population
- A regulated business model: Enedis has the national monopoly on 386 concession contracts
- Represents usually a share of about a quarter in the metrics of the EDF Group:
 EBITDA (except 2022), investments (€4.4bn in 2022) and headcount (~39k)

- €96bn net investments planned over the period 2023-2040
- 2022 key figures:
 - **€5,8bn**: EBITDA⁽²⁾
 - 38.1m customers (o/w 28.4m EDF)
 - 1.4m km electric network

Breakdown of EBITDA



- Island activities (see p.76)
- Integrated business model including generation, electricity purchases, distribution (via concessions) and supply at the regulated tariff
 - Capacity 2.0GW⁽³⁾ (fuel 78%, hydropower and other EnR 22%)
 - Electricity generation 6.4TWh⁽³⁾ (fuel 75%, hydropower and other EnR 25%)
 - 1.2m of customers (electricity)
- Électricité de Strasbourg (see p.76)
 - Electricity distribution (15,000km electric network), energy supply to c0.6m customers, energy services, renewable energy generation

- (1) Electricité de Strasbourg.
- (2) Including in 2022, the exceptional effect of the retrocession of interconnection fees granted by RTE.

(3) Fully consolidated data as of 31/12/2022.

2022 FACTS & FIGURES COUNTRY PROFILE

UNITED-KINGDOM: EDF ENERGY



> Key points:

- Largest producer of low carbon electricity
- 9 reactors in 5 nuclear power stations, 1 coal-fired power station (end of generation in March 2023)
- Nuclear New Built: Hinkley Point C 3.2GW under construction (see p.42)
- Project under development Sizewell C (see p.42)
- Batteries and high-volume power connections to enable rapid electric vehicle charging through Pivot Power
- Electric vehicles charge point operator through Pod Point

2022 key figures:

€1.3bn: EBITDA

6.1 m of customer accounts
 (3.8m: electricity and 2.3m: gas)

• ~11,000: workforce

99.9%: CO₂ –free generation⁽¹⁾

2022 supply market share

Electricity supply:

~43.6TWh ~11.2%⁽²⁾

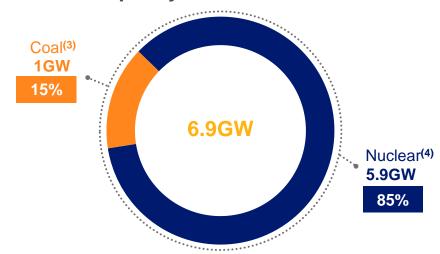
Domestic Gas supply: ~30TWh

~9.4%(2)

And for this country:

- Renewable energy generation from wind farms by EDF Renewables (see <u>p.55</u>)
- Optimisation and risk management services for the EDF group as well as for third parties, via EDF Trading (see p.79)

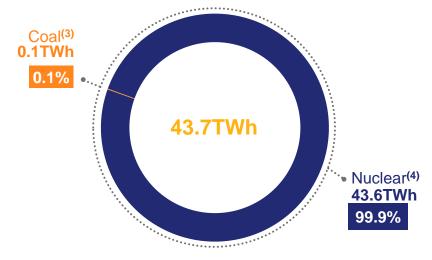
Installed capacity



(1) Direct emissions, excluding life cycle analysis of generation means and fuels.

(2) UK Gas and Electricity market share as per Cornwall data at 30/10/2022.

Electricity generation



- (3) The coal capacity represents a "connection input capacity". End of generation of the 2 last units of West Burton A in March 2023.
- (4) The figures shown represent 100% of nuclear capacity and generation, split 80%/20% between EDF Energy and Centrica.



35

ITALY: EDISON



A major player (1) in Italy, leader of sustainable energy transition:

- 7.2GW of installed capacity including over 2GW of renewables
- 21% market share in Gas midstream activities, second biggest gas importer in Italy with a diversified portfolio of LT contracts independent from Russia

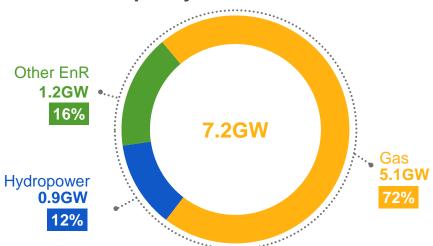
Key strategic priorities for 2030:

- Pursue development of renewables (from 2 to 5GW 40% of generation mix)
- Be a leader in flexible energy generation to ensure security of supply (high efficiency CCGTs (Marghera and Presenzano with lower CO₂ emissions), CCS, pumped hydro, batteries,...)
- Enable energy transition and driving green gas development
- Support our clients in achieving competitiveness and environmental sustainability through energy efficiency services

2022 key figures:

- Generation fleet in Italy: 107 hydropower plants, 14 thermal power plants,
 53 wind farms and 56 photovoltaic power plants
- 19.7TWh power produced, i.e. 7.2% of Italian generation
- Biggest B2B wholesaler in Italy (37.7TWh of Electricity and 21.1Bcm of gas sold per year)
- **14.5Bcm of natural gas imports,** i.e. 21% of Italy's natural gas imports
- €1.1bn: EBITDA
- 1,8m of B2C/SME gas, power and energy services contracts⁽²⁾
- ~**6,000**: workforce
- **17%**: CO₂ –free generation⁽³⁾

Installed capacity



(1) According to the 2021 ARERA report.

(2) The number of customers corresponds to the number of electricity and gas delivery sites.

Electricity production



(3) Direct emissions, excluding life cycle analysis of generation means and fuels.



BELGIUM: LUMINUS AND EDF BELGIUM

> Luminus:

- 2nd largest player in the Belgian energy market
- 7 hydropower plants
- Leader in wind power with 92 onshore wind farms
- Gas fleet of 1,208MW
- Owning 10.2% (316MW) of the nuclear power plants of Tihange 2 and 3, and Doel 4 (end of generation of Doel 3 in 2022). Luminus also has 100MW of drawing rights on the French Chooz B nuclear power plant

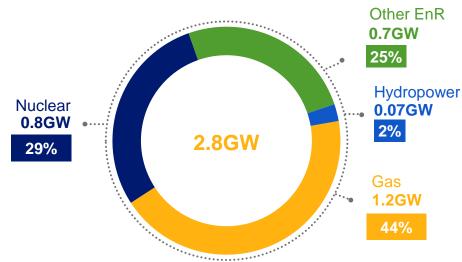
EDF Belgium:

• Wholly-owned by EDF, it holds 50% of the Tihange 1 nuclear plant⁽¹⁾, or 481MW, representing 2% of Belgian generation capacity

2022 key figures:

- Luminus: 2,289MW of installed capacity 22% electricity market share in Belgium⁽²⁾ Total electricity output of 6,9TWh in 2022 ~2,2m of delivery points
- EDF Belgium: 481 MW of nuclear installed capacity
- €118m: EBITDA Belgium⁽³⁾
 2.2m of customers (1.4m: electricity et 0,8m: gas)
- ~2,600: workforce⁽⁴⁾
- **74%**: CO₂ –free generation⁽⁵⁾

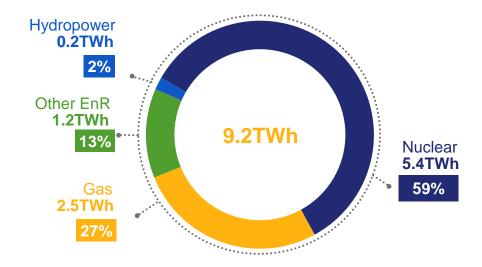
Installed capacity



(1) 50% participation in the Tihange 1 power plant with Electrabel.

- (2) As of 31/12/2021 (latest figures).
- (3) Luminus SA = 61.5M€ and EDF Belgium = 57.7M€.

Electricity generation



- (4) Headcounts.
- (5) Direct emissions, excluding life cycle analysis of generation means and fuels.

eDF

2022 FACTS & FIGURES

REST OF THE WORLD - AREAS PROFILE

North America

- ➤ EDF Renewables: 11.4GW net installed or in construction, mainly in the USA, and close to 17.4GW managed for own account or third parties
- > Framatome: electricity supply to 36m households
- > Dalkia: local energy services management and efficiency

South America

- ▶ Brazil: EDF Norte Fluminense CCG (827MW). Sinop hydropower plant (51% of 402MW). EDF Renewables net capacity of 526MW in wind power and 199MW in solar power
- ➤ Chile: flexible gas and peak generation capacity (50% of 750MW) and construction of a solar power plant (50% of 480MW), by EDF Andes
- > Peru: microgrid solar energy project and signature of a PPA with the town of Iquitos

Africa

- ➤ Wind: 145MW gross in South Africa and commissioning of the Taza wind farm phase 1 (90MW) in Morocco
- > Solar: 130MW Benban plants in Egypt (130MW)
- ➤ **Hydroelectric:** in **Cameroon**, construction of **Nachtigal** dam (40% of 420MW) and development of a second dam in **Kikot** (450MW) in **Malawi**, development of an hydropower plant (350MW)
- **Biomass:** construction of the biggest plant of Western Africa in Ivory Coast (46MW)
- Off-Grid kits (distributed energy): in South Africa, Ivory Coast, Ghana, Senegal, Kenya, Zambia and Togo More than 2m people supplied with electricity

Middle East

- ➤ United Arab Emirates: PV solar plant DEWA III (16% of 0.8GW). Construction of the photovoltaic project Al Dhafra PV2 (20% of 2.1GW). Construction of high voltage subsea cables transmission system (3,2 GW) with ADNOC. Management assistance project for the construction of Hatta pumping station dam (0.2GW)
- Saudi Arabia: wind farm Dumat Al Jandal (0.4GW), photovoltaic project of South Jeddah (0.3GW)
- ➤ Israel: 531MW of gross renewable installed capacity, 77MW under construction

China

- ➤ Nuclear: two EPR nuclear reactors in Taishan (30% of 3.5GW)
- ➤ Thermal-coal: minority stake in Fuzhou ultra-supercritical plant (49% of 2GW), Shandong plants (19.6% of 3GW) and Sanmenxia supercritical plant (35% of 1.2GW)
- ➤ Renewables: net installed capacity of 380MW in wind and 136MW in solar power. In offshore wind energy, Dongtai IV (0.3GW) and Dongtai V (0.2GW) wind farms

Pacific Asia

- ▶ India: industrial agreement and offer submitted for the construction of 6 EPRs on the Jaitapur site (~10GW). A roll-out smart meters project (over 1m installed). Group's installed renewables power (excl. Hydro) capacity: 0.6GW net
- Vietnam: Phu My 2.2 CCG in operation (0.7GW). Development of Son My 1 CCGT (2.3GW)
- ➤ Laos: Nam Theun 2 hydropower plant (1.1GW installed) & on its dam reservoir: development of a hybrid solar farm of 80MW



STEDF TABLE OF CONTENTS **P.4** P.30 **COUNTRY GROUP PROFILE STRATEGY** P.39 P.98 **GROUP MAIN** FINANCIAL DEBT **BUSINESSES & DEDICATED ASSETS** As a major player in energy transition, the EDF group is an integrated energy company active in all areas of the industry: power generation using nuclear, renewable and thermal energies; design and construction of nuclear power plants; electricity transmission and distribution; sales; energy services; energy trading

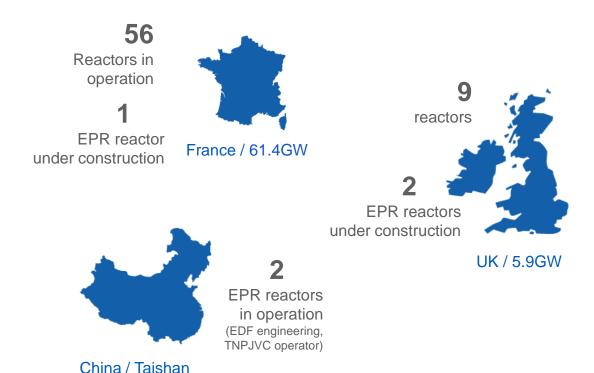
EDF GROUP MAIN BUSINESSES



| > | NUCLEAR | P. 40 |
|---|--|-------|
| > | RENEWABLES | P. 55 |
| > | THERMAL POWER | P. 68 |
| > | REGULATED ACTIVITIES (mainly networks) | P. 70 |
| > | OPTIMISATION & TRADING | P. 77 |
| > | CUSTOMER SOLUTIONS | P. 83 |
| > | ENERGY SERVICES | P. 91 |
| > | GAS | P. 95 |

EDF: UNIQUE & GLOBAL EXPERTISE AND KNOW-HOW IN THE NUCLEAR INDUSTRY

EDF, THE WORLD'S LEADING NUCLEAR OPERATOR(1)



- (1) IAEA (International Atomic Energy Agency), Nuclear power reactors in the world, 2022 edition.
- (2) Technology partnership.

EDF MANAGES THE <u>ENTIRE LIFECYCLE</u> OF NUCLEAR GENERATION FACILITIES: DESIGN, OPERATION AND DECOMMISSIONING

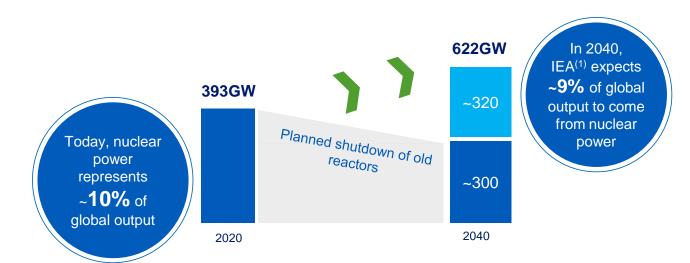
- **Development** of an optimised version of the EPR (**EPR 2**) (see <u>p.44</u>), which could, in the long term, expand the French nuclear fleet's offer **in France and for export.**
 - Pooling of EDF and Framatome engineering teams in a joint subsidiary **Edvance** for **new projects in France and abroad**
- Development of a type of SMR, Nuward ™ (see <u>p.43</u>), with the CEA, TechnicAtome, NavalGroup, Framatome and Tractebel⁽²⁾
- Aim to continue the operation, safely, of its reactors beyond 40 years in France and to build the success of the first reactors to pass their fourth tenyear inspection to extend their operating life.
 EDF plans to invest €33bn over the period 2022-2028, as part of the "Grand Carénage" programme (see p.48)
- Construction of EPR-type reactors (France, the UK)
- **Excell Plan, ongoing** to strengthen the industrial quality, the skills, and the governance of the French nuclear industry (see <u>The excell plan p.15</u>)
- Presence of EDF in the French and international markets for the decommissioning of nuclear power plants (see <u>p.50</u>) and radioactive waste treatment facilities (see <u>p.52</u>)
 - In the UK, EDF Energy responsible for the AGR power plants' defueling, and Nuclear Decommissioning Authority (NDA) responsible for subsequent decommissioning activities

CDF 2022 FACTS & FIGURES MAIN BUSINESSES NUCLEAR



UNIQUE POSITIONING IN NUCLEAR NEW-BUILD

WORLD NUCLEAR CAPACITY EXPECTED TO EXPAND OVER THE NEXT 20 YEARS



- Until 2030, the electric share in energy consumption will sharply raise and is planned to reach 32% in 2040, compared to 20% in 2021. It represents a +20,000TWh_e growth over the period
- Up to 871GW of installed nuclear capacity will be required to reach carbon neutrality by 2050 worldwide according to the IEA, more than a doubling compared to the level at end 2020
- (1) International Energy Agency's Sustainable development, scenario based on 2021 data (latest publication).
- (2) Final Investment Decision.

eDF

EDF UNIQUE POSITIONING ON GLOBAL NEW NUCLEAR BUILD GROWTH

2 EPR reactors

in operation since end-2019



China / **Taishan** 3.5GW



- 1st Unit: start of commercial operation on 13 December 2018
- 2nd Unit: start of commercial operation on 7 September 2019

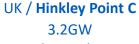
1

France / Flamanville 3 ~1.6GW



- Entering the test phase
- Penetration welds repairing finished
- Target fuel loading date of Q1 2024

New Nuclear Development





- Final Liner Ring has been lifted onto 1st Unit
- 1st Unit Reactor Pressure Vessel delivered to site in February 2023
- Electricity generation of the first reactor expected in June 2027
- Development of an additional nuclear construction project in the UK: Sizewell C (3.2GW). In November 2022, the UK Government announced its decision to invest c. £700m to support the project's continued development. This project is eligible for funding under the Regulated Asset Base funding model. Sizewell C's construction remains subject to EDF taking a FID⁽²⁾
- EDF has submitted bids for the development or construction of international projects (Jaitapur in India (engineering for six EPRs (~10GW) to be built by NPCIL), participation to a tender in Czech Republic, non bidding offer in Poland)

2022 FACTS & FIGURES

MAIN BUSINESSES NUCLEAR

42

NEW NUCLEAR: SMR (SMALL MODULAR REACTOR) NUWARD™ PROJECT

PROJECT

- Development of NUWARDTM, a small modular reactor (SMR), in technical partnership with CEA, Naval Group, TechnicAtom, Framatome and Tractebel
- Nuclear plant of two pressurized water reactors (PWR) of 170MW each
- Pre-evaluation of the design conducted by the ASN, in collaboration with the Czech and Finnish safety authorities to accelerate the international licensing



PROGRESS

- Currently in the « Conceptual Design » phase (setting main design options and starting to size main systems and components)
- The French State has granted €50m of subsidies to the Nuward project in December 2020 as part of the recovery plan "Plan de relance" (o/w €45m cash in). Additional support of €500m announced by the French President in February 2022
- In December 2022, signature by EDF and Fortum of a cooperation agreement for joint exploration of development opportunities for SMRs and large nuclear reactors in Finland and Sweden



EUROPEAN PRESSURISED REACTOR 2 (EPR2) IN FRANCE

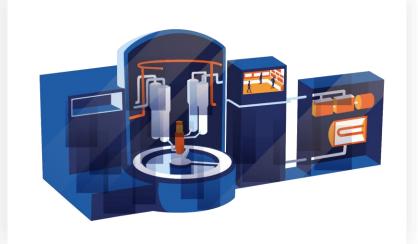
MAIN ASPECTS OF THE PROJECT

- Electrical power of an EPR2 nuclear power station: ~1.6GW
- A programme of three pairs of reactors (six EPR2s) to benefit from volume effects in technological terms, notably in equipment purchasing and construction-phase services, as well as later in operation and maintenance.
- Feasibility studies for 8 additional reactors
- Integrating feedback from all EPR sites worldwide and from the fleet in operation
- An upgrade in nuclear reactor as in the EPR: in particular the same security level (one of the highest in the world), the same power and environmental performance

PROVISIONAL SCHEDULE

- Proposal by EDF and nuclear sector for an execution programme presented to the French government in May 2021 (and its actualisation target during Summer 2023) for the sites of Penly, Gravelines and a third one (Bugey or Tricastin)
- First EPR2 pair of reactors on Penly site scheduled to be commissioned between 2035 and 2037
- The construction schedule proposed by EDF and the nuclear sector is based on one pair of EPR2s every 4 years, with 18 months between each production unit of the same pair

EPR2 design





FRAMATOME, A MAJOR INTERNATIONAL PLAYER IN THE NUCLEAR INDUSTRY

€328m: EBITDA(1)

€3.75bn: order intake in 2022 (of which ~60% outside the Group)

Intervention on more than **300** of the ~**430** reactors in the world Presence in the defense and healthcare sectors

An international presence More than More than 60 €4bn €12.1bn 17,000 sites in sales backlog 20 employees⁽¹⁾ countries(1

Major supplier in the nuclear industry

Designer and supplier of nuclear steam supply systems and nuclear equipment, services, fuel and control systems:

Business units

- Management of major nuclear projects (construction projects and replacement of major components,...): partner of EDF in the construction and commissioning of 5 EPR reactors (Flamanville 3 in France, Taishan 1 and 2 in China, Hinkley Point C 1 and 2 in the UK)
- Engineering, licensing and R&D (nuclear steam supply systems, future reactors ...)
- Nuclear fuel design and supply: 230,000 loaded assemblies in more than 125 operating reactors worldwide
- **Equipment manufacturing** (vessel, steam generators,...): > 100 plants equipped by Framatome in 11 countries
- Instrumentation and control
- Services activity

(1) Data at end-2022, contribution at EDF Group consolidation level.

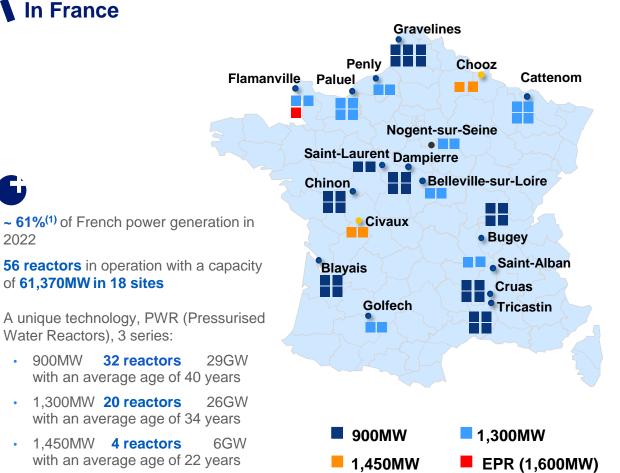


2022 FACTS & FIGURES

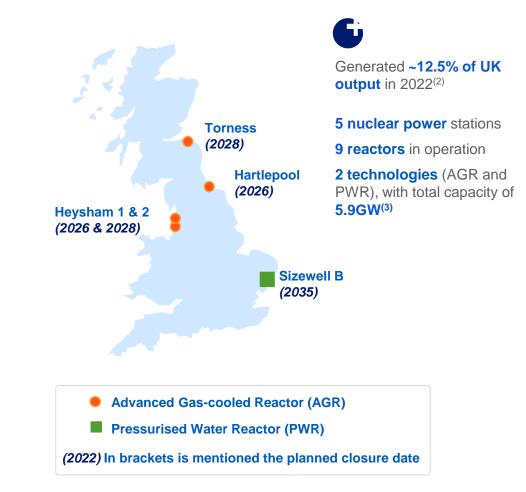
MAIN BUSINESSES NUCLEAR

EDF NUCLEAR FLEET IN FRANCE & IN THE UNITED KINGDOM

In France



In the United Kingdom



46

- (1) The total French electricity output reached 459TWh in 2022 incl. Corsica and adjusted from weather effect (Bilan électrique 2022 of RTE).
- 100% EDF Energy Nuclear Generation output out of total UK Generation as per WMO estimate.

^{(3) 5.9}GW capacity split 80%/20% between EDF Energy and Centrica. In 2022, end of generation of Hunterston B Reactor 4 and Hinkley Point B. In March 2023, the future end of generation of the 2 reactors of Heysham 1 and Hartlepool have been postponed from 2024 to 2026.



2022

of 61,370MW in 18 sites

2022 FACTS & FIGURES MAIN BUSINESSES NUCLEAR

CHANGE IN LOAD FACTOR⁽¹⁾ AND NUCLEAR OUTPUT

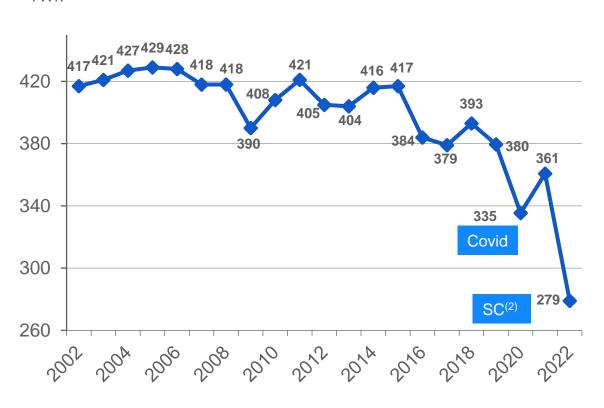
Annual load factor of nuclear fleet in France

Load factor (%)



Net output of nuclear fleet in France





⁽¹⁾ Load factor rate is the ratio of energy generated to the maximum theoretical energy (the energy generated if the installed capacity were operated year-round).

⁽²⁾ Stress Corrosion in 2022. Decrease linked to a lower availability of the nuclear fleet, mainly due to the control and repair programme on the pipes affected by the stress corrosion phenomenon.



2022 FACTS & FIGURES MAIN BUSINESSES NUCLEAR

EXISTING NUCLEAR FLEET AND GRAND CARÉNAGE PROGRAMME

INDUSTRIAL STRATEGY

Industrial strategy to continue the operation of nuclear plants after 40 years:

- Technical capacity of the plants to operate beyond 40 years supported by international benchmarks for similar technologies
- Extension from 40 to 50 years of the depreciation period of the 900MW nuclear fleet from 1 January 2016. During 2022, 6 reactors successfully completed their 4th ten-year inspection and thus passed the 40-year milestone (Dampierre 1, Bugey 5, Gravelines 1, Gravelines 3, Dampierre 2, Tricastin 3) and one ten-year inspection is ongoing (Blayais 1). At 31 December 2022, 10 reactors have successfully finalised their 4th ten-year inspection
- Extension from 40 to 50 years of the depreciation period for the **1,300MW nuclear fleet** from 1 January 2021, following in particular, the ASN's decision of 23 February 2021⁽¹⁾ and the success of the first 4th ten-year inspection on Tricastin 1
- Strategy compatible with the current multi-year energy programme for France (PPE 2018-2023) and the French Law removing the 50% of nuclear power from the energy mix in 2035





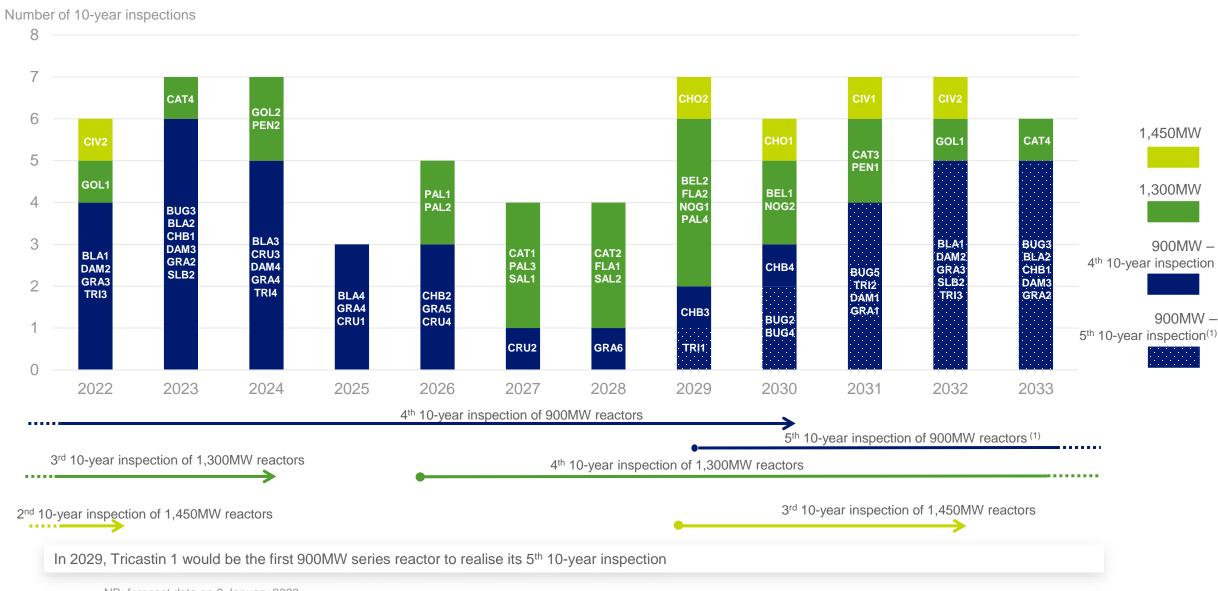
- In 2022, EDF launched the second phase of the *Grand Carénage* programme with a new investment scope for the period 2022-2028: capex plan of €33bn or €4.7bn/year (estimate at 31 March 2022)
 - This expenditure will **improve fleet safety** and **ensure the necessary capital investments** for operations such as the continuation of the 4th tenyear outage programmes for 900MW reactors, studies and the beginning of implementation for4th ten-year outages for 1,300MW reactors and preliminary studies for the continued operation of 900MW reactors beyond 50 years
- In addition, the work on stress corrosion leads to an estimated capital expenditure of €0.8bn (estimate in 2022) over the period 2022-2024

(1) Decision on the conditions for continued operation of the 900MW reactors for the ten years following their fourth 10-year inspection.



2022 FACTS & FIGURES MAIN BUSINESSES NUCLEAR

10-YEAR INSPECTIONS OF THE NUCLEAR FLEET



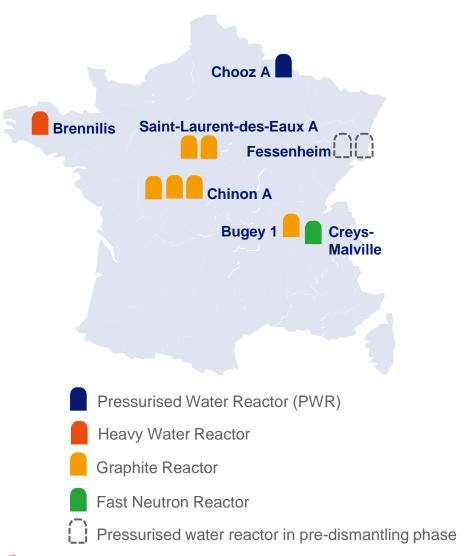
NB: forecast data on 3 January 2023.

^{(1) 5&}lt;sup>th</sup> 10-year inspections, subject to decisions taken and authorisations issued.



49

DISMANTLING: THE FINAL STEP IN THE LIFE OF A PLANT



3 periods in the life of a plant

Construction - Operation - Dismantling

As the operator of the nuclear plants, EDF is in charge of these three steps and is currently dismantling first generation nuclear plants (shut down up to the 1990s) and prepares the dismantling of the two reactors of Fessenheim

11
REACTORS UNDER DISMANTLING IN FRANCE

4
DIFFERENT
TECHNOLOGIES

INDUSTRIAL SITES

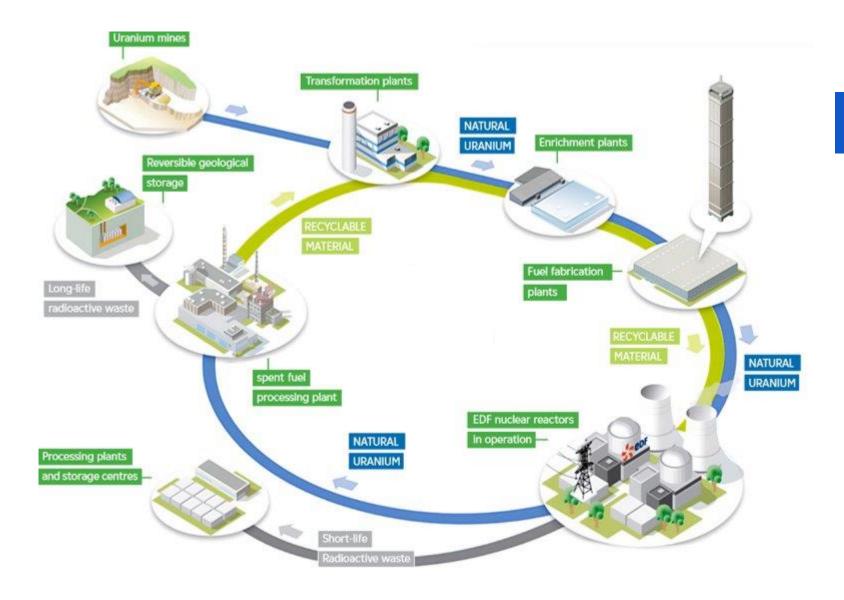
The nuclear plants currently in operation are all "PWR"

The **duration** of a Pressurised Water Reactor dismantling is **15 years** starting from the dismantling decree

3 key steps: 1- Unloading the fuel and draining all systems (after which 99.9% of the on-site radioactivity has been eliminated). 2- Dismantling excluding the reactor building 3- Dismantling the reactor building

The duration of the operations may vary for other technologies (NUGG, LWR, FNR) according to the complexity of works that have to be completed

STAGES OF THE NUCLEAR FUEL CYCLE IN FRANCE



4gCO₂eq/kWh

EDF carbon footprint of nuclear life-cycle⁽¹⁾

IPCC 2015 data worldwide (in gCO₂eq/kWh)

Coal: 1,040

Fuel: 840

Gas: 490

Solar PV:

Hydro: 24

Nuclear: 12

Wind: 11



RADIOACTIVE WASTE MANAGEMENT

| | TYPE OF WASTE | EXAMPLE | POSITION/STORAGE |
|--|--|---|---|
| SHORT-LIVED WASTE | VERY-LOW-LEVEL WASTE | Waste resulting from the maintenance work and decommissioning of nuclear installations (concrete, scrap, piping, work clothes,) | On the surface at the Morvilliers storage centre managed by ANDRA ⁽¹⁾ |
| 90% of waste 0.1% of radioactivity Their radioactivity is halved over a period of 31 years or below | SHORT-LIVED INTERMEDIATE AND LOW-LEVEL WASTE | Waste from the processing of liquid and gaseous effluents of operating plants; some decommissioning waste | On the surface at the Soulaines storage centre, managed by ANDRA ⁽¹⁾ |
| LONG-LIVED WASTE | LONG-LIVED, LOW-LEVEL WASTE | They essentially are graphite waste from the dismantling of first-generation plants | Warehousing at the production site pending the construction of a storage centre. Storage project under review. |
| 10% of waste 99.9% of radioactivity | LONG-LIVED INTERMEDIATE-LEVEL WASTE | Metallic structures of the fuel assemblies, other operating or dismantling waste near the core of the reactor | Metallic structures enclosing the fuel warehoused at the plant in La Hague , once the fuel is removed. Operational and dismantling waste close to the core sent to ICEDA, pending the geological storage industrial centre (Cigéo) ⁽²⁾ |
| | HIGH-LEVEL WASTE | Waste from the processing of spent fuel | Warehousing at the Orano site in La Hague pending the geological storage industrial centre (Cigéo) ⁽²⁾ |

⁽¹⁾ National Agency for Radioactive Waste Management (Agence Nationale pour la Gestion des Déchets Radioactifs).

⁽²⁾ For more information about <u>Cigéo</u>, please see p.53.



2022 FACTS & FIGURES MAIN BUSINESSES NUCLEAR

CIGÉO – A DEEP-STORAGE INDUSTRIAL CENTRE

- French deep-storage project for Long-lived Intermediate-level and High-level radioactive waste, generated mainly by the existing French nuclear facilities (nuclear power industry, research, defense, etc.). Such waste represents 3% of the total volume of radioactive waste and is alone responsible for 99% of waste radioactivity
- The French law of 28 June 2006 tasked the National Agency for Radioactive Waste Management (ANDRA) with designing, constructing and operating Cigéo
- > The waste producers (mainly EDF, CEA and ORANO) will finance the construction and the operating costs of Cigéo. The share borne by EDF is provisioned and covered by dedicated assets
- > The authorisation request of the Cigéo creation has been officially submitted in Q1 2023. It plans the site to be located in eastern France, on the border between the Meuse and Haute-Marne
- > The first waste is expected to be delivered between 2035 and 2040

The principle of reversible storage in deep geological layers

- After 15 years of research, assessments and a public debate, principle adopted by the French Law of 28 June 2006 as the safe solution for the long-term management of this type of waste, without shifting the burden onto future generations.
- > The principle of reversibility for the entire duration of the operation (at least 100 years) in order to adapt Cigéo to possible changes

Secure and robust facilities that are adaptable on two levels

- On the surface: facilities to receive and prepare waste shipments, and to undertake excavation work and the progressive construction of underground structures
- Below ground: galleries located about 500 meters deep in a stable and impermeable layer of argillaceous rock, chosen for its containment properties over very long periods (several hundreds of thousands of years)
- Scalable architecture of the underground facilities during operation, depending on feedback and available technologies



Cigéo facilities on the surface



Cigéo underground galleries modelisation

eDF

53

CYCLIFE: A GROUP DEDICATED TO DECOMMISSIONING AND RADIOACTIVE WASTE TREATMENT OFFERINGS

The Group "Cyclife" is in charge of nuclear decommissioning and waste treatment for the French and international market.

Cyclife offers melting and incineration solutions to reduce the volume of short-lived radioactive waste and, depending on local regulations, to recycle very low-level metal waste.

Cyclife has three plants, in France, Sweden and the United Kingdom, and mobile machines that work directly on operating nuclear power plants.

Cyclife is also working on developing innovative waste treatment technologies alongside industrial partners

EDF radioactive waste treatment 3 facilities⁽¹⁾

The UK (Workington)

Metal waste treatment (clean up, cutout)⁽¹⁾: 3,000t/year

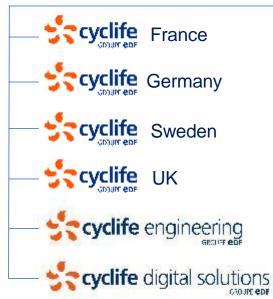
~ 120 employees

Sweden (Nyköping)

Smelting⁽¹⁾: 5,000t/year Incineration⁽¹⁾: 500t/year Pyrolysis⁽¹⁾: 50t/year

~ 100 employees













Smelting⁽¹⁾: 3,500t/year Incineration⁽¹⁾: 6,000t/year

~ 300 employees

(1) Maximum authorised capacities

MAIN BUSINESSES NUCLEAR



022 FACTS & FIGURES

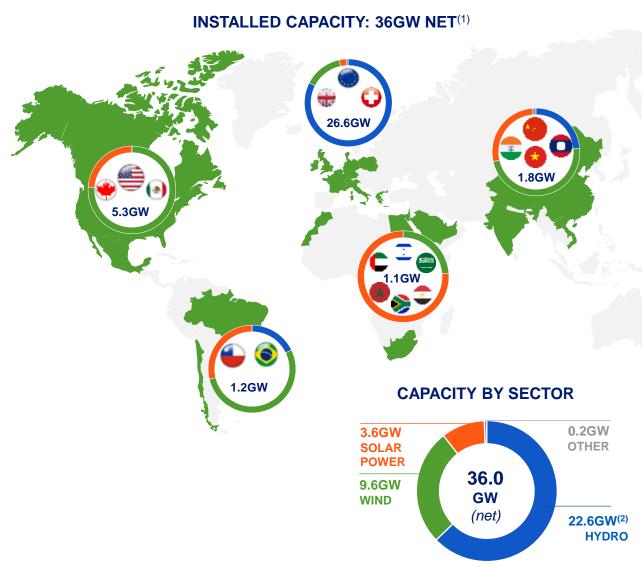
EDF GROUP MAIN BUSINESSES



| | NUCLEAR | P. 40 |
|---|--|-------|
| > | RENEWABLES | P. 55 |
| | THERMAL POWER | P. 68 |
| | REGULATED ACTIVITIES (mainly networks) | P. 70 |
| | OPTIMISATION & TRADING | P. 77 |
| | CUSTOMER SOLUTIONS | P. 83 |
| | ENERGY SERVICES | P. 91 |
| > | GAS | P. 95 |



EDF, THE EUROPEAN LEADER IN RENEWABLE ENERGIES



A DIVERSIFIED MIX WITH 36GW IN OPERATION

- 22.6GW of hydropower
- 13.2GW of wind and solar power
- 0.2GW others (biomass, geothermy, ...)

HYDROPOWER

- Leading European producer of hydropower
- More than 400 production sites worldwide

A GLOBAL LEADER IN WIND AND SOLAR ENERGY

- 3.6GW gross commissioned in 2022
- 7.1GW gross currently under construction (1.4GW in onshore wind, 1.4GW in offshore wind, 4.3GW in solar)

56

NB: situation at 31/12/2022.

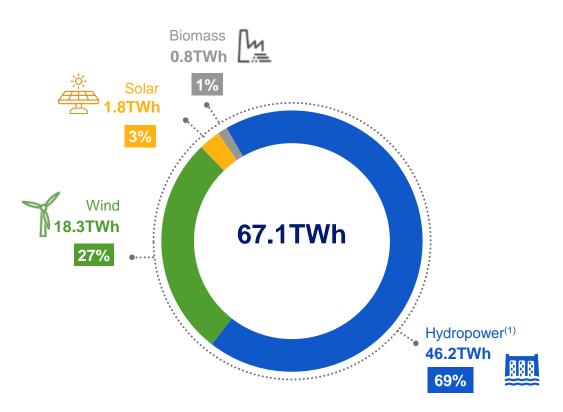
- (1) Installed capacity shown as net, corresponding to the consolidated data based on EDF's participation in Group companies, including investments in affiliates and joint ventures.
- (2) Including sea energy: 0.24GW.



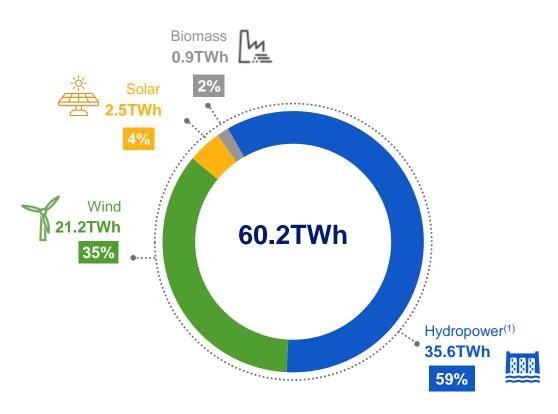
RENEWABLE OUTPUT

Output from fully consolidated entities









⁽¹⁾ Hydropower output includes tidal energy for 549GWh in 2022 and 543GWh in 2021. Hydro output after deduction of pumped volumes is 28.2TWh in 2022 and 40.3TWh in 2021.



MAIN BUSINESSES RENEWABLES 57

FRENCH HYDROPOWER – A DIVERSIFIED & FLEXIBLE FLEET

THE MAIN SOURCE OF RENEWABLE POWER IN FRANCE

Net Renewable installed capacity⁽¹⁾ of the Group in France



- > 425 plants in France (mainland), average age of 77 years
- Covering the different kinds of hydropower facilities:
 - Run-of-river / Pondage water / Reservoirs (lake-supplied) / Pumped storage / Tidal power

UNIQUE STORAGE VALUE, CRITICAL FOR THE ELECTRICITY SYSTEM

Estimated weekly flexibility needs(2)



- Hydropower France provides ~14GW of storage
 - Reservoirs: 8.2GW
 - Pumped storage: 5.0GW
 - □ Including the 1.7GW Grand'Maison facility, the largest European storage asset
- > Only sizeable & cost competitive electricity storage technology

AMONG THE MOST FLEXIBLE
AND REACTIVE GENERATION
TECHNOLOGIES





- Allows quick adjustments to within-day fluctuations in the supplydemand balance
 - Consumption peaks
 - Non forecasted loss of generation capacity
- Hydropower is the most significant contributor to ancillary services

58

- (1) Power generation capacity, in proportion of the share the EDF group held in each asset.
- (2) Source: RTE (Bilan prévisionnel).



EDF'S HYDROPOWER FLEET

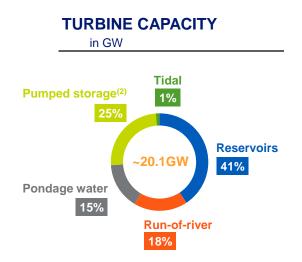
EDF operates ~80% of mainland France's hydropower capacity and between 65% and 70% of hydroelectricity energy output.

EDF develops its hydropower activities in order to increase their power and availability.

EDF's expertise is also recognised internationally

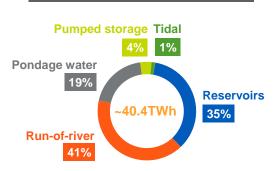
> FRANCE

- Improving the performance of the existing generation fleet and impact on environment, notably biodiversity
- Developing storage with Pumped Storage Hydropower Plants (PSHP):
 EDF is reviewing several PSHP projects based on existing plants
- Promoting complementarity with intermittent renewable energies.
 Example: in Lazer, EDF achieved a first in France by using the surface of a hydropower dam reservoir for a floating photovoltaic project





AVERAGE PRODUCTIBLE in 60 years⁽¹⁾



c. 11.5% of the average EDF output in **mainland France**

INTERNATIONAL DEVELOPMENT

- Developing engineering and operating service offers internationally
- Hatta (UAE): continuation of the management assistance of a PSHP project (250MW). 64% achieved on March 2023 and end of construction scheduled at the end
 of the first half of 2024.
- Nachtigal⁽³⁾ (Cameroon): design, construction and operation for a period of 35 years of a 420MW dam. More than 80% achieved at 31/12/2022. Project's expected total cost: €1.2bn. Operational commissioning planned for S2 2024

(3) Project 40%-owned by the Group.

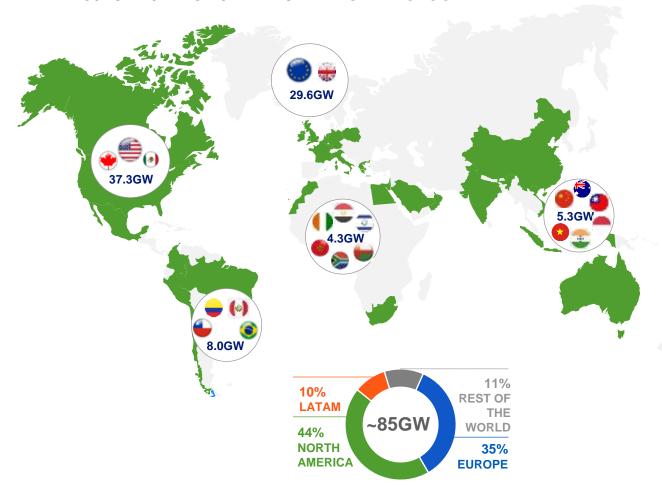
2) Only gravity capacity is counted in the Pumped storage; pumped energy is not taken into account.



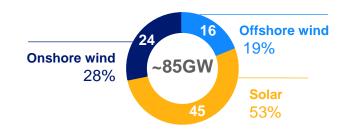
⁽¹⁾ The average production over 60 years has been re-evaluated on the basis of observed climate change.

A PORTFOLIO OF WIND AND SOLAR PROJECTS OF ~85GW⁽¹⁾

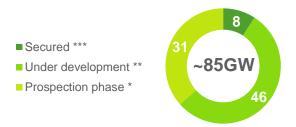
A PROJECT PORTFOLIO THAT IS **DIVERSIFIED GEOGRAPHICALLY...**



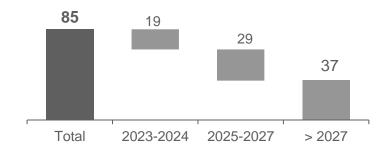
... AND BALANCED BETWEEN WIND AND SOLAR



BREAKDOWN BY DEVELOPMENT PHASE(2)



BREAKDOWN BY DATE OF START OF CONSTRUCTION (IN GW)(3)



NB: situation at 31/12/2022.

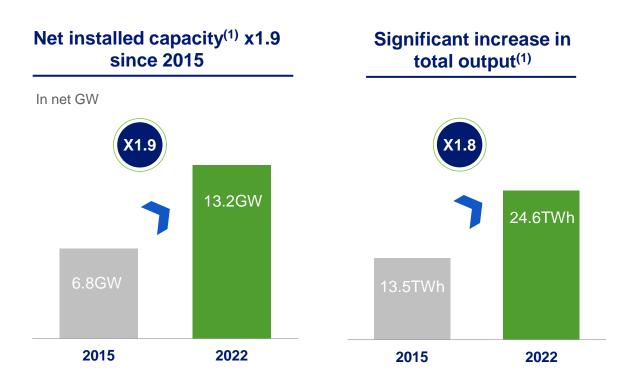
- (1) Mainly Wind and Solar. Pipeline excluding capacities under construction. Gross data corresponding to 100% of the capacity of the projects concerned.
- (2) All the projects in prospection phase included in the pipeline, starting 2020.
- (3) Start of construction portfolio, not probability-based.

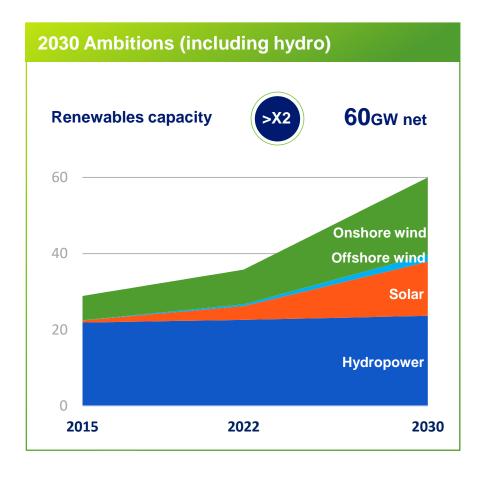


- * Start of land identification and preliminary studies
- ** Sufficient land securisation and start of technical studies
- *** Securing a power purchase agreement (following a call for tenders, auction, OTC negotiation)

60

STRONG GROWTH BASED ON A LARGE PROJECT PORTFOLIO



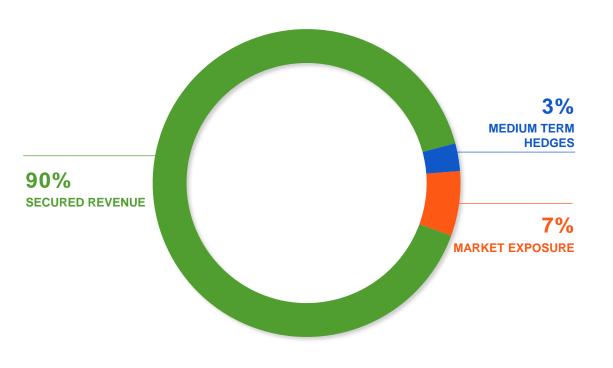


(1) Solar and wind.



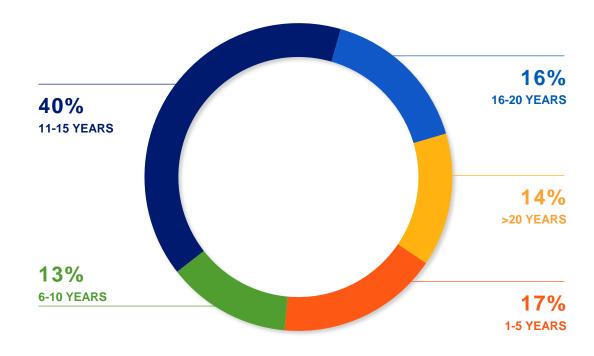
REVENUE SECURED BY LONG-TERM CONTRACTS

CONTRACTUALISATION OF 2023 CONSOLIDATED REVENUE FROM RENEWABLE GENERATION⁽¹⁾



93% of 2023 revenue secured

AVERAGE RESIDUAL DURATION OF LONG TERM CONTRACTS(2)



THE AVERAGE REMAINING TERM OF THE CONTRACTS IS ~14 YEARS

⁽²⁾ Weighting according to estimated 2022 revenues of fully consolidated assets



⁽¹⁾ Based on the estimate of 2023 revenues from fully consolidated assets

OFFSHORE WIND IN FRANCE: 5 PROJECTS & 1 IN OPERATION FOR A TOTAL **CAPACITY OF >3GW**

IN OPERATION

Saint Nazaire (commissioned in November 2022, ~€2bn total investments, partnership with EIH SARL)

ONGOING CONSTRUCTIONS

- **Fécamp** (started in 2020, expected commissioning in 2023, ~€2bn total investments, partnership with EIH SARL)
- Calvados (Courseulles-sur-Mer) (Start in February 2021, expected commissioning in 2025, ~€2bn total investment, partnership with EIH SARL and Skyborn)

FURTHER DEVELOPMENTS

- Development of **Dunkirk** (~€1bn total investment, partnership with Enbridge)
- Gain of the tender in Normandy for the Manche Normandie in partnership with Mapple Power



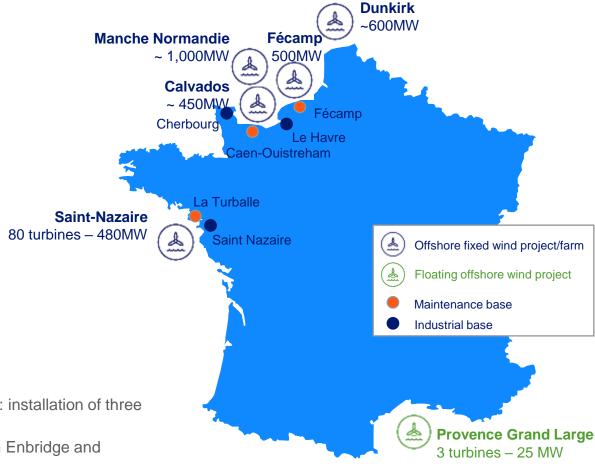
Offshore

fixed wind

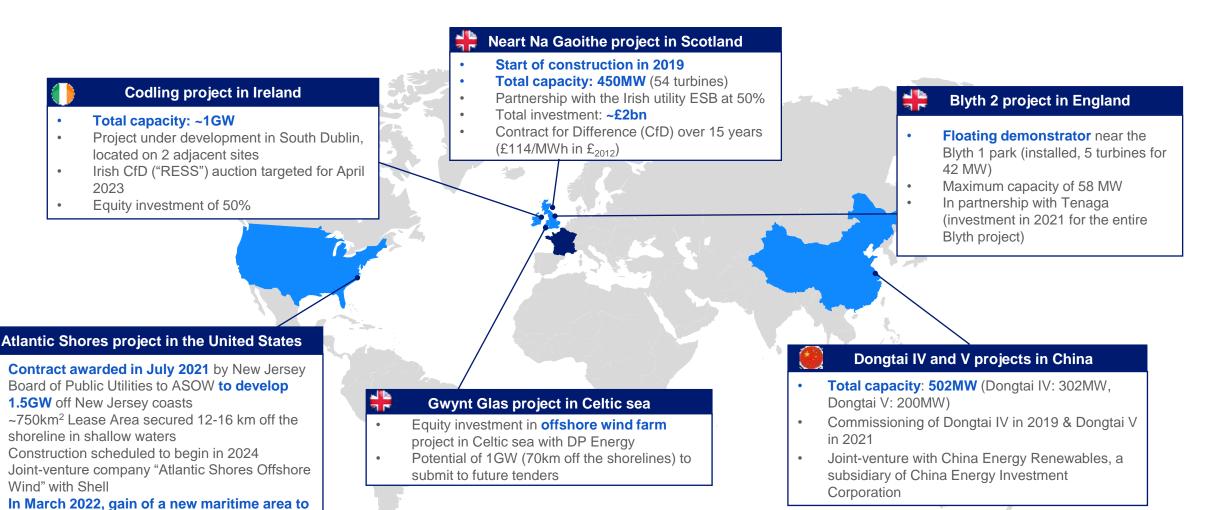
project/farm

Floating offshore wind project

- Construction of Provence Grand Large, a floating wind pilot project: installation of three 8MW turbines on floating foundations
- Participation in tenders in South Brittany and Mediterranean coast with Enbridge and Canada Pension Plan Investment Board (CPPIB)



INTERNATIONAL OFFSHORE WIND DEVELOPMENTS: NEARLY 4GW IN DEVELOPMENT





develop 1.5GW in the New York bight

A SUSTAINABLE BUSINESS MODEL BASED ON KEY COMPETITIVE ADVANTAGES

DEVELOPMENT

~1,500 employees⁽¹⁾

ENGINEERING & CONSTRUCTION

O&M AND ASSET

MANAGEMENT

DECOMMISSIONING

- Key competitive advantages for the development of a strong project portfolio
 - A large and diverse international presence with seasoned development teams in Europe and North America and dedicated development hubs in Asia Pacific, Latin America, Middle East and North Africa
 - Expertise in site security, engineering, procurement, structured financial arrangements and participation in tenders
 - Key local **partnerships** in order to share investments, country risk and maximize competitive advantage
 - Strong **portfolio**, in renewal and with a good transformation rate
- Synergies within EDF group for customer-tailored solution (PPAs for commercial and industrial customers, off-grid or decentralised offers)
- Strong engineering expertise
- Significant expertise in the construction of industrial-scale projects and operational excellence in delivering on budget and don time
- Continued technical innovation to seize opportunities in new markets (floating PV, floating offshore wind, etc.)
- Integrated skills in O&M supporting operational excellence, optimised production, technological expertise
- Expertise on decommissioning of end-of-life assets
- Proactive approach on blades recycling (partnership with Siemens Gamesa for the deployment of offshore recyclable blades)

VALUE CREATION:

+150-200 bps

DIFFERENCE BETWEEN
THE EXPECTED RETURN
RATE AND WACC⁽²⁾

65

- (1) EDF Renewables Development, Engineering and Construction internal teams. Excluding contractors and partners capabilities.
- (2) Difference above WACC. Historical average performance estimated as part of a profitability analysis of EDF Renewables projects (scope: 78.3GW net, 137 farms, 14 countries). The IRR calculation takes into consideration the various assumptions (including market prices evolutions).

TECHNOLOGICAL INNOVATION: A KEY COMPETITIVE ADVANTAGE

PHOTOVOLTAIC SOLAR

- Increase the capacity of installations thanks to bifacial PV modules
- Unlock new potentials in solar PV in geographically constrained areas thanks to floating photovoltaic solar installations ...
 - Ongoing construction of a floating photovoltaic power plant of 20MW in France (Lazer, Hautes-Alpes, expected commissioning in 2023)
- · ... and Agri-PV
 - > 1st co-developed pilot project with INRA, in operation at EDF R&D center « les Renardières »
 - > 45% stake taken in Green Lighthouse Development (GLHD), a pioneer in agri-PV in France with a pipeline of 2.5GW

OFFSHORE WIND

• Exploiting new offshore potential with floating: Provence Grand Large (France, a floating project of 3 x 8.4MW), and Blyth II (in the UK)

STORAGE

- Development of flexibility on the grid using Li-ion batteries coupled to generation assets: Umoyilanga project (South Africa solar PV wind) won in 2021, Desert Quartzite (USA solar PV) won in 2021, and Maverick 2 (USA) commissioned
- Development of storage projects (in the UK, Pivot Power commissioned 2 storage projects located in Kemsley and Oxford and currently builds a project located in Coventry) and charging systems for electric vehicles (via PowerFlex in the United States)
- Microgrid projects in remote areas: c.100MW of PV & >100MWh of battery energy storage, in Peru under development



~17.4GW OF O&M⁽¹⁾: STRONG EXPERTISE, DIFFERENTIATING FACTOR



17.4GW of O&M contracts

Remote control and optimisation in real time via a control centre



10 countries



3 technologies (onshore wind, offshore wind, solar PV) OPTIMISED ASSET PERFORMANCE

- Digitalisation and supervision in real time.
 Ongoing data lake creation for asset performance optimisation
- Predictive maintenance via algorithms dedicated to anticipate defaults, wear, damage

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

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

(1) GW generated by renewable energy power plants that EDF operates and maintains (plant supervision, monitoring of production, preventive and corrective maintenance, etc.) on its own behalf or for a third party



EDF GROUP MAIN BUSINESSES



| > | NUCLEAR | P. 40 |
|---|--|-------|
| > | RENEWABLES | P. 55 |
| > | THERMAL POWER | P. 68 |
| > | REGULATED ACTIVITIES (mainly networks) | P. 70 |
| > | OPTIMISATION & TRADING | P. 77 |
| > | CUSTOMER SOLUTIONS | P. 83 |
| > | ENERGY SERVICES | P. 91 |
| > | GAS | P. 95 |



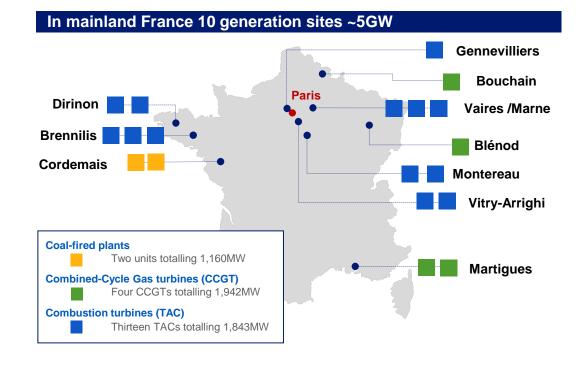
ADJUSTMENT OF THERMAL POWER TO EDF'S LOW CARBON STRATEGY

Thermal strategy: preparation for the end of coal-fired power generation, transition to a decarbonised mix in the NIZ⁽¹⁾ and modernisation of EDF's fleet

- Phase out of coal-fired power generation by 2030, worldwide:
 - In France: end of generation of Le Havre in April 2021. Need (expressed by RTE) for Cordemais (last coal plant in France operated by the Group), to maintain generation until 2024, or 2026, so as to maintain balance between demand and supply
 - In the United Kingdom: end of generation of West Burton A on 31 March 2023
 - **in China:** withdrawing from coal-fired electricity production, in progress by the Group for its non-controlled assets (with the end of the Shiheng I & II joint ventures with Shandong on 1 January 2022)
- Achieve low-carbon electrical production in the NIZ⁽¹⁾: replacement of fuel oil with biomass, shutdown of the oldest combustion turbines (TAC) and generators, energy management system on fossil fuel-fired sites, development of 100% renewable energy projects for isolated microgrids
- Modernise the fleet to improve its technical and environmental performance: in Italy, construction of Marghera and Presenzano CCGT plants (with CO₂ emissions 40% lower than the national average and 70% fewer NOx emissions)

Share of thermal in the energy mix of the Group:

- Installed capacity⁽²⁾ as of 31/12/2022: Gas 9%, Coal 2% Fuel Oil 3%
- Electricity generation⁽²⁾ in 2022: Gas 9%, Coal 0.4% Fuel Oil 1%
- It varies from one country to another: in 2022 it reached ~3% of electricity generation in France and ~80% in Italy
 - (1) Non-Interconnected Zones.
 - (2) Consolidated data.



In the world ~12GW net⁽³⁾ o/w main generation sites as of today

- **Belgium**: Ringvaart (257MW)
- Brazil: Norte Fluminense (827MW)
- Chile: Nueva Renca (185MW)
- China: Fuzhou (980MW), Sanmenxia (441MW), Shandong (353MW)
- Greece: Tessaloniki 1 (207MW), Thisvi (199MW)
- Italy: 4,2 GW o/w Torviscosa (807MW), Simeri Crichi (805MW), Altomonte (753MW), Marghera (572MW)
- Overseas France: 1.6GW o/w Port Est (211MW), Pointe de Jarry (211MW), Bellefontaine (211MW)
- Vietnam: Phu My 2-2 (402MW)

(3) Data based on EDF's participation in Group companies, incl. investments in affiliates and joint ventures excl. end of generation of West Burton A Units 1 & 2 (1GW) on 31 March 2023 and of Sloe (870MW) in January 2023.



2022 FACTS & FIGURES MAIN BUSINESSES THERMAL POWER

EDF GROUP MAIN BUSINESSES



| | NUCLEAR | P. 40 |
|---|--|--------------|
| > | RENEWABLES | P. 55 |
| > | THERMAL POWER | P. 68 |
| > | REGULATED ACTIVITIES (mainly networks) | P. 70 |
| > | OPTIMISATION & TRADING | P. 77 |
| > | CUSTOMER SOLUTIONS | P. 83 |
| > | ENERGY SERVICES | P. 91 |
| | GAS | P. 95 |



ENEDIS(1): DISTRIBUTION NETWORK LEADER IN EUROPE

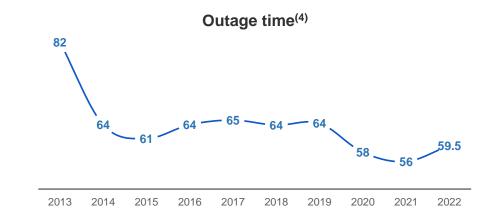
MAJOR
DISTRIBUTION
NETWORK
PLAYER IN
EUROPE

WORLD'S SMARTEST DISTRIBUTION NETWORK OPERATOR⁽³⁾

TOP-TIER
OPERATIONAL
PERFORMANCE



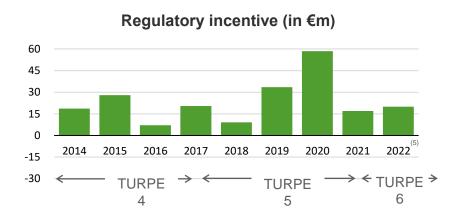
Top-tier operational performance



Less than 60 minutes for 3 years

- (1) Enedis is an independent EDF subsidiary as defined in the French Energy Code
- (2) Corresponds to the number of delivery points.
- (3) For the second consecutive year, and by the Singapore Power Group Smart Grid Index (SGI).

Regulatory incentive bonus systematically obtained since 2014



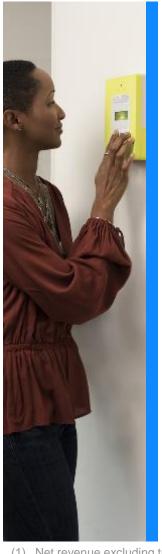
For TURPE 6, bonus/malus between -€269M and +€201M: this modifies the remuneration potential in relation with performance level

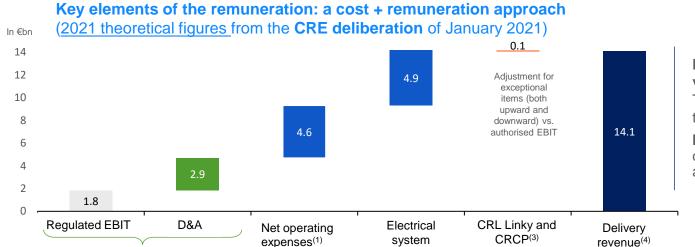
71

- (4) Excluding exceptional events and transport grid incidents.
- (5) Provisional data.



ENEDIS: TURPE 6, A MATURE REGULATORY FRAMEWORK

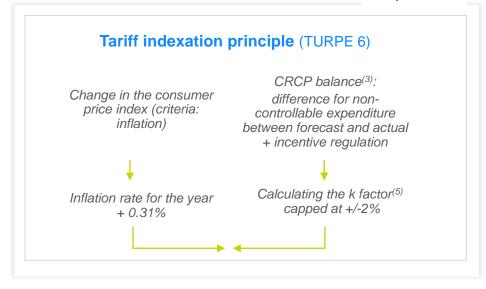




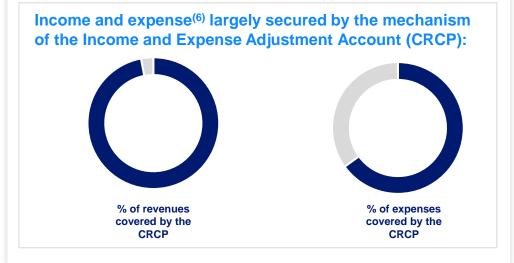
expenses(2)

No exposure to variations in distributed volumes (number of customers, TWh distributed including weather impact) vs trajectory defined by the regulator

Incentive regulation: productivity gains, quality of service and continuity of supply, R&D and smart grids



Capital costs



(1) Net revenue excluding transport

2022 FACTS & FIGURES

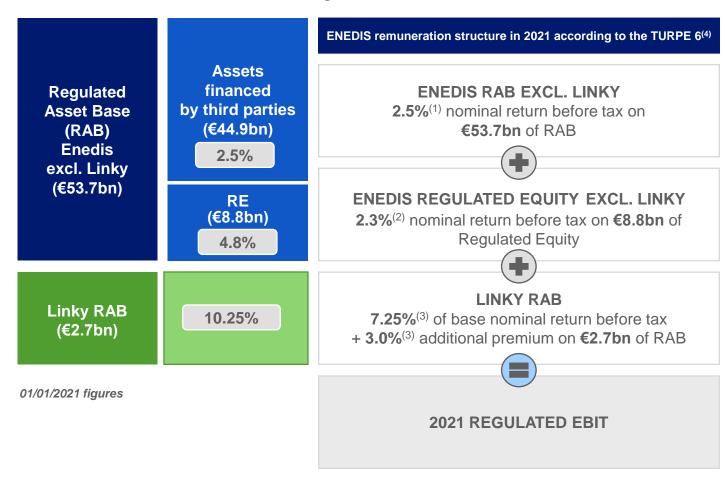
- (2) Power system charges = transport purchase from RTE + purchase of network losses
- (3) CRCP = expense and income adjustment account; CRL Linky = Linky regulated levelling account (Compte Régulé de Lissage [CRL])

- (4) French standard data. The difference with IFRS mainly corresponds to Enedis' contribution to the **Electricity Equalization Fund**
- (5) k factor = percentage change in the fee table resulting from the clearance of the CRCP balance
- (6) Capital charges + operating charges + electric system charges

72 MAIN BUSINESSES REGULATED

TURPE 6 REMUNERATION STRUCTURE: A FAVOURABLE RISK PROFILE

A remuneration mechanism based on a guaranteed return



TURPE 6 (in force since 1 August 2021) in continuity with the previous TURPE

- Return on capital depends little on interest rate trends:
 stable at 2.5% since TURPE 4
- Return on Regulated Equity: decrease from 4 to 2.3% to take into account the reduction of the risk-free rate and the corporate tax rate in France
- CRCP: mechanism globally validated. The entry CRCP of TURPE 6 (regarding TURPE 5) represents a receivable of €588m⁽⁵⁾ to be spread over the 4 years of TURPE 6
- Incentive regulation: targets raised, notably quality of service
- Main new features: annual tariff indexation includes 0.31% remuneration above inflation.

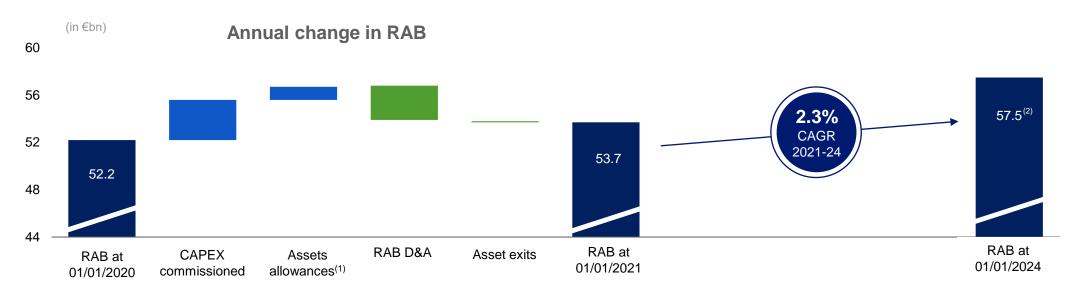
73

- (1) Asset margin = Asset beta x Market risk premium / $(1 \tan x \arctan = 0.36 \times 5\% / (1 26.47\%) = 2.5\%$.
- (2) Additional rate of remuneration applied to RE = Risk-free rate/ (1 Tax rate) = 1.7% / (1 26.47%) = 2.3%.
- (3) Remuneration rate for Linky assets = Base rate + $3.0\%^{(3)}$ additional premium = 7.25% + 3% = 10.25%.
- (4) Applicable from 1 August 2021.
- (5) CRE deliberation.



2022 FACTS & FIGURES MAIN BUSINESSES REGULATED

STEADY GROWTH IN RAB AND REGULATED EQUITY





- (1) Work by concession-granting authorities and transferred to Enedis + c.€0.4bn for the integration of growing columns excluding concession in 2020 (ELAN law).
- (2) Estimated figures from the CRE deliberation Provisional data.



2022 FACTS & FIGURES MAIN BUSINESSES REGULATED

74

LINKY⁽¹⁾: AN INCENTIVISING TARIFF FRAMEWORK

LINKY: THE ROLLOUT PROGRAM FOR NEW SMART METERS 34m⁽²⁾ smart meters installed at end-2021

Significant contribution to cash-flow from 2022

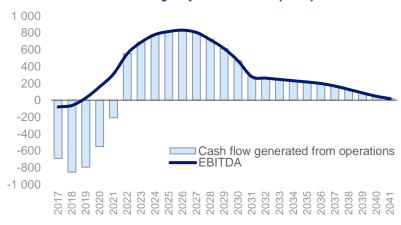


~€3.9bn⁽²⁾
investments
over 2014-2021

Specific regulation over 20 years (Linky-dedicated RAB)

AN ATTRACTIVE REMUNERATION STAGGERED OVER TIME

EBITDA⁽³⁾ and cash flow generated from Linky operations (€m)





7.25%Nominal rate of return on assets before tax



→ Secured

75

- (1) Linky is a project led by Enedis, an independent EDF subsidiary as defined in the French Energy Code.
- (2) Program costs are lower than the initial budget, planned at €4.7bn. Program finalised in 2021.
- (3) At current accounting standards.
- (4) Additional premium of 3% / Penalties of -2 %, depending on the respect of costs, deadlines and performance of the system during the deployment phase.



FRENCH ISLAND ACTIVITIES & ELECTRICITÉ DE STRASBOURG

French island activities(1)

es

Electricité de Strasbourg



76

- Integrated business model including generation, electricity purchases, distribution (via concessions) and supply at the regulated tariff
- Network activities: similar remuneration to Enedis and €240m investments in 2022
- Generation activities:
 - Capacity 2.0GW⁽²⁾ (fuel 78%, hydropower and other EnR 22%)
 - Electricity generation 6.4TWh⁽²⁾ (fuel 75%, hydropower and other EnR 25%)
 - 1.2m of customers (electricity)
 - Replacement of the main power plants ending their useful lives, building new plants and converting its existing plants to use liquid biomass as Port Est in the second half of 2023, 100% renewable plant
 - For assets commissioned before 06/04/2020, remuneration of 11%. For assets commissioned after 06/04/2020, between 6.25% and 9.75%
- the Island Energy Systems (IES) Department, responsible for the supply and demand balance on a daily basis. It manages all the networks
- the subsidiary EDF Production Électrique Insulaire (EDF PEI), responsible for building and operating generation assets.

- The ÉS group is a French Alsatian region energy producer, committed to the long-term energy and economic performance of the area through its four business lines:
 - Electricity distribution (15,000km electric network)
 - Energy supply to c.600,000 customers
 - Energy services
 - Renewable energy generation
 - Deep geothermal: 178GWh fossil-fired & 6GWh electric
 - **Biomass**: 106GWh fossil-fired & 66GWh cogeneration
 - **Hydropower**: 46GWh
- Usually around 70% of EBITDA from regulated distribution activities
- ~1,300 employees
- 2021 2026 : roll out of Linky

- 1) French island electrical activities include Corsica, Martinique, Guadeloupe, French Guiana, Reunion, Saint Pierre and Miquelon, Saint Barthélémy, Saint Martin and Ponant islands.
- (2) Fully consolidated data as of 31/12/2022



2022 FACTS & FIGURES

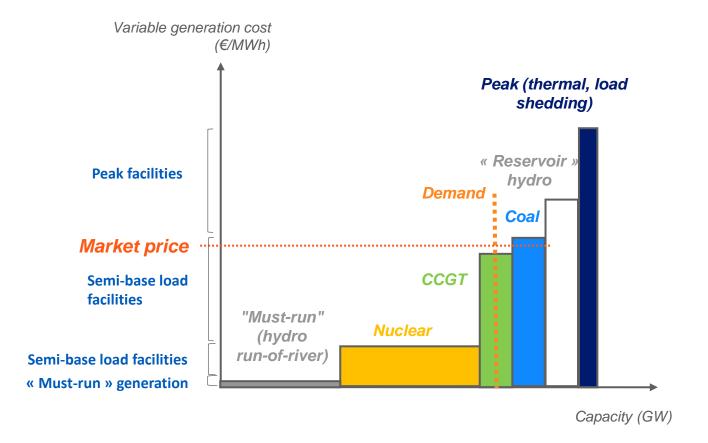
MAIN BUSINESSES REGULATED

EDF GROUP MAIN BUSINESSES

| | NUCLEAR | P. 40 |
|---|--|-------|
| > | RENEWABLES | P. 55 |
| > | THERMAL POWER | P. 68 |
| > | REGULATED ACTIVITIES (mainly networks) | P. 70 |
| > | OPTIMISATION & TRADING | P. 77 |
| > | CUSTOMER SOLUTIONS | P. 83 |
| > | ENERGY SERVICES | P. 91 |
| | GAS | P. 95 |



DAILY OPTIMISATION: THE MERIT ORDER



(1) Variable costs: operating costs proportional to the generated energy, fuel costs, CO2, costs of injection into the grid.

- For each moment, the optimiser schedules the operation of available means of generation, mobilising them according to the merit order of variable costs⁽¹⁾ until the estimated demand is met
- Before buying volumes on the spot market, each producer determines the resources required to meet the demand. It classifies them from the least expensive to the most expensive
- It then determines the marginal cost, which is the variable cost of the most expensive means of generation called to meet the supply/demand balance of its portfolio
- Given this marginal cost, it determines the sales and purchases volumes on the spot market
- Spot market price (day ahead) is based on the marginal cost that forms the intersection of the supply of all producers with the overall demand to meet
- The relative positioning of gas and coal plants depends on fossil fuel prices and CO₂ quotas. Over 2022, in the context of the Ukrainian war, coal was more competitive than gas

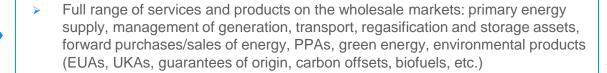
EDF TRADING, ACCESS PLATFORM TO WHOLESALE ENERGY MARKETS

MARKET ACCESS

>

Market access to power, gas, LPG⁽¹⁾, LNG and environmental (CO₂ quotas) products markets in Europe, North America and Asia

SPECIALIST IN THE WHOLESALE ENERGY MARKET







 Exclusive market interface to EDF Group entities providing asset optimisation and hedging services

... AS WELL AS FOR THIRD-PARTY CUSTOMERS

Services to large commercial and industrial counterparties and customers, as well as to many producers and suppliers of energy

Well positioned with a broad geographical presence



- One of the largest wholesale traders of gas and electricity in North America
- A leading player in the European gas and electricity markets
- Growing global LNG trading in the Atlantic and Pacific Basins through its partnership with JERA

EDF Trading 2022 EBITDA

€6,407m

Exceptional performance in 2022 in the context of the extreme volatility of the market

Did you know?

EDF Trading has a diverse portfolio of carbon credits from projects around the world to support EDF Group and thirdparties with their decarbonisation commitments

(1) Liquid Petroleum Gas.



PURCHASE OBLIGATION AND SALE ON WHOLESALE MARKET

Public service mission: EDF⁽¹⁾ must buy electricity generated by certain technologies (or pay the facilities an "additional remuneration" (AR)) whose development is promoted by the French State, at prices set by the government (by decree or through tenders)

Pursuant to Article L. 121-7 of the French Energy Code, EDF is compensated for the additional costs resulting from the purchase obligations (PO) on the basis of a reference to prices from wholesale electricity markets, known as "avoided cost" (compensation)

EDF-Purchase obligations:

According to the CRE ruling of 16 December 2014, the energy of purchase obligations is resold on the markets:

- the near certain component (i.e. predictable over the medium term) directly by tenders under transparent and non-discriminatory conditions
- the variable component (i.e. predictable for the day ahead) on EPEX Spot via EDF Trading (in the dedicated book)

Since the capacity mechanism has been set up, EDF has in charge the certification of the facilities under the purchase contract and resells these capacities at the auctions (nearly 6GW)

EDF-Additional Remuneration:

In 2022, market prices were above the "AR" contract price reference. Thus, producers paid EDF the difference between these two prices and EDF refunded the French state for this difference

- (1) And the LDCs (Local distribution company).
- (2) Excluding Corsica and French overseas departments.



Managed contracts
Annual growth in 2022:
+40,000 contracts

2022 Key figures⁽²⁾ PO 50.9 TWh

of purchased electricity

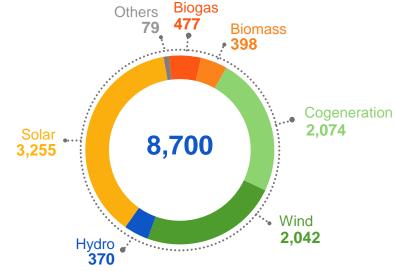
for 8.7bn of purchases

AR 3.5 TWh

of sustained electricity

€459m of payment by producers

Purchasing breakdown by sector in 2022 (in €m)



€

~€52m

of management fees paid by the French State to EDF for 2021

eDF

CAPACITY MECHANISM IN FRANCE: PRINCIPLES

TARGET: REMUNERATE THE CONTRIBUTION OF GENERATION MEANS TO THE SECURITY OF ELECTRICITY SUPPLY IN FRANCE, IN ORDER TO SUPPORT DECISIONS TO INVEST OR SHUTDOWN OF THESE MEANS



Producers must have their **capacities certified** by **RTE**, committing themselves to a forecast availability level for the **winter peak**



Suppliers have an **obligation** to hold **capacity certificates** for the estimated consumption of their customers on **peak days** as determined by RTE

Certification Perimeter Managers



Obligated Actors

Certify and sell capacities







Purchase capacity to cover their Obligation





The capacity mechanism was set up in 2016 in France

Its framework is currently under review for 2026

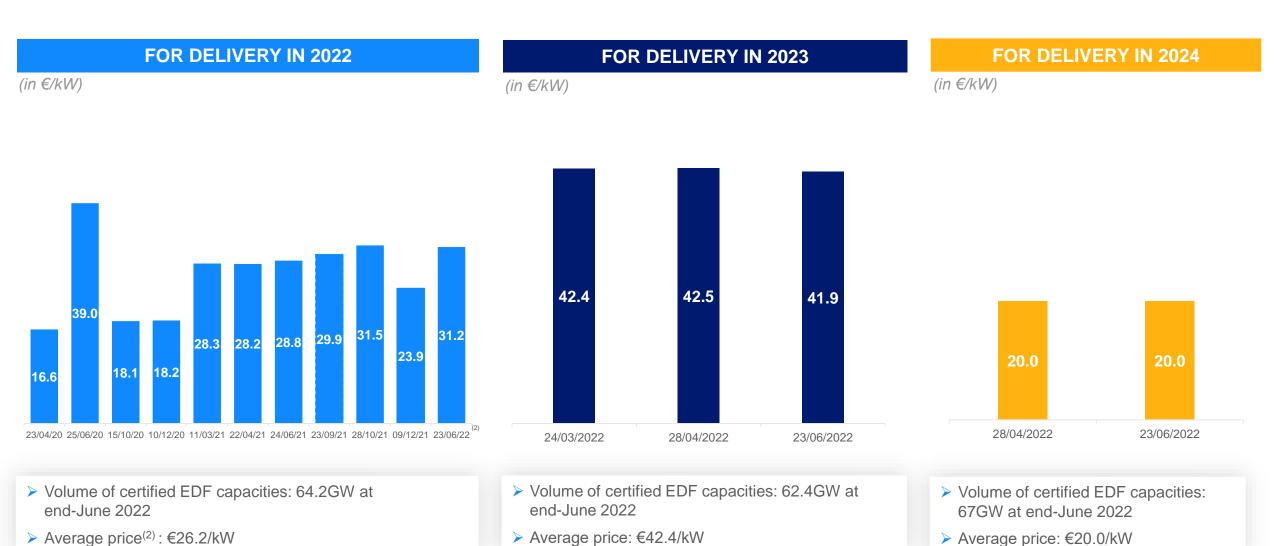
Other capacity mechanisms in the United Kingdom and Italy

Auctions organised by EPEX allow supply and demand to be matched and a price to emerge

The price depends on the tightness of the supply-demand balance in each winter and the expected return on the assets to be available (the so-called "missing money")



CAPACITY MARKET IN FRANCE



¹⁾ Data rounded to nearest tenth.



⁽²⁾ Does not take into account rebalance sessions.

EDF GROUP MAIN BUSINESSES



| > NUCLEAR | | P. 40 |
|-----------|--|-------|
|-----------|--|-------|

- > RENEWABLES P. 55
- > THERMAL POWER P. 68
- > REGULATED ACTIVITIES (mainly networks) P. 70
- > OPTIMISATION & TRADING P. 77
- > CUSTOMER SOLUTIONS P. 83
- > ENERGY SERVICES P. 91
- > GAS P. 95



SUPPLY OF ELECTRICITY, GAS AND HEAT TO 40M CUSTOMERS AT END-2022

Electricity
33.9m customers

Gas

6.4m customers



United Kingdom: EDF Energy

3.8m electricity customers
2.3m gas customers

5.5m residential customers accounts Highly competitive market with ~33 suppliers(1) 10.4% market share on all its accounts

Electricity market

3.3m residential customers
11.2TWh electricity sold to
customers
0.5m business customers
2.1TWh sold to 216,000 SME
customers
30.3TWh sold to large industrial and

Gas market 29.2TWh gas sold to end

commercial customers

customers

The United Kingdom EDF Energy 6.1m

France EDF nearly 29m
SEI more than 1.2m



France: EDF (incl. Electricité de Strasbourg)

More than **26.7m** electricity customers More than **2.1m** gas customers

231.6TWh electricity sold to customers 40.5TWh gas sold to customer

France: SEI

More than 1.2m electricity customers 9.9TWh electricity sold to customers

France: Dalkia group (excluding speciality subsidiaries)

27.6TWh sold

24.0TWh for the heating and cooling segment

3.6TWh for the electricity segment



Belgium: Luminus

1.4m electricity customers0.8m gas customers

The second largest player in the Belgian energy market. ~22%⁽³⁾ market share 6.9TWh electricity generation 12.7TWh electricity sold 13.9TWh gas sold



Italy: Edison⁽²⁾

0.8m electricity customers**0.9m** gas customers

14.6TWh electricity sold (end customers)73.1TWh gas sold6.6Bcm gas sold (residential and industrial uses)

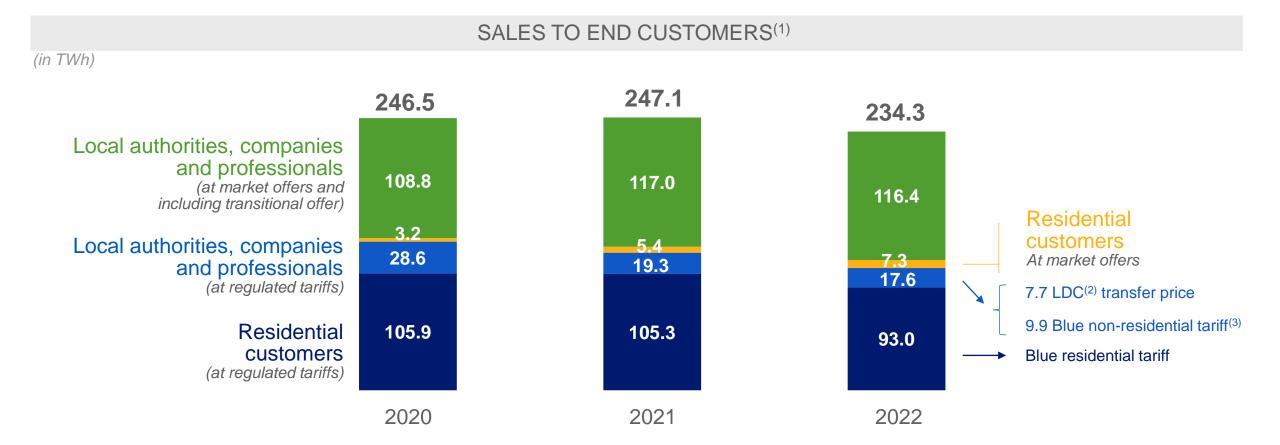
- N.B. The values correspond to the first decimal or integer closest to the sum of the precise values, taking into account rounding.
- (1) Cornwall Insight data at 31/10/2022.



- (2) Includes customers of service activities.
- (3) As of 31/12/2021 (latest figures).

2022 FACTS & FIGURES MAIN BUSINESSES CUSTOMER SOLUTIONS

ELECTRICITY SUPPLY IN FRANCE



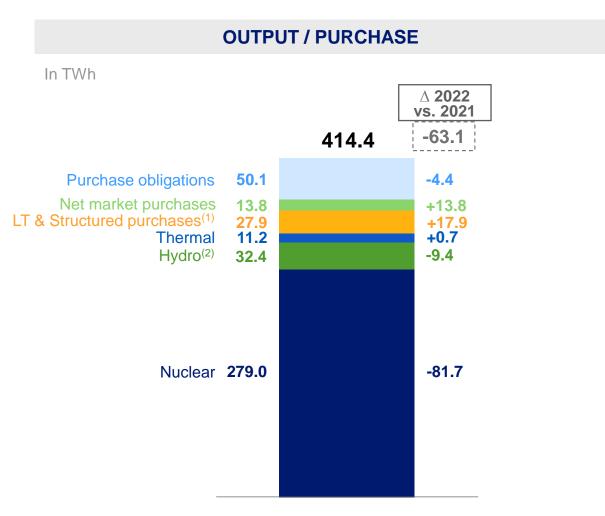
⁽³⁾ Of which Yellow and Green tariffs for 0.06TWh - Tariffs lower than 36 kVA.



⁽¹⁾ Rounded to the nearest tenth. Including EDF's own consumption.

⁽²⁾ Local Distribution Companies (LDCs).

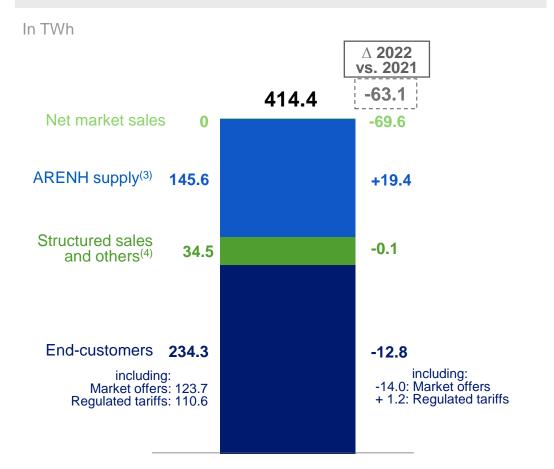
FRANCE: UPSTREAM / DOWNSTREAM ELECTRICITY BALANCE





- O/w required purchases from eligible suppliers within the frame of the specific additional ARENH mechanism.
- (2) Hydro output after deduction of pumped volumes: 25TWh in 2022 / 35.9TWh in 2021.

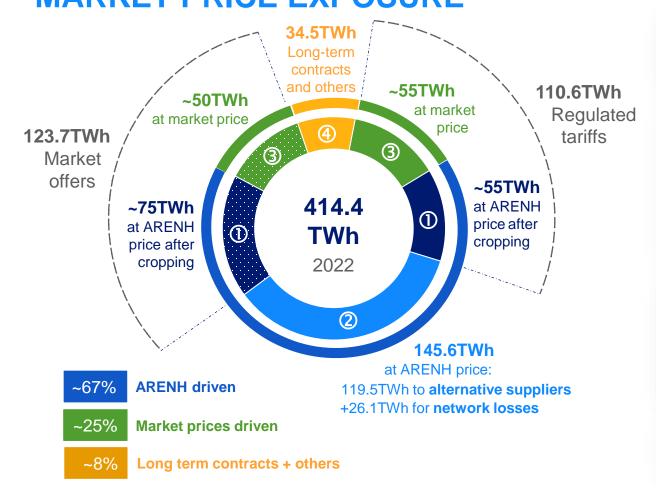
CONSUMPTION / SALES



- (3) O/w 19.5TWh as for required sales of ARENH additional volumes to the alternative suppliers (see the decree of March 2022).
- (4) Including hydro pumped volumes of 7.4TWh in 2022 / 5.9TWh in 2021.



FRANCE: DISTRIBUTION OF ELECTRICITY SALES⁽¹⁾ ACCORDING TO THEIR MARKET PRICE EXPOSURE



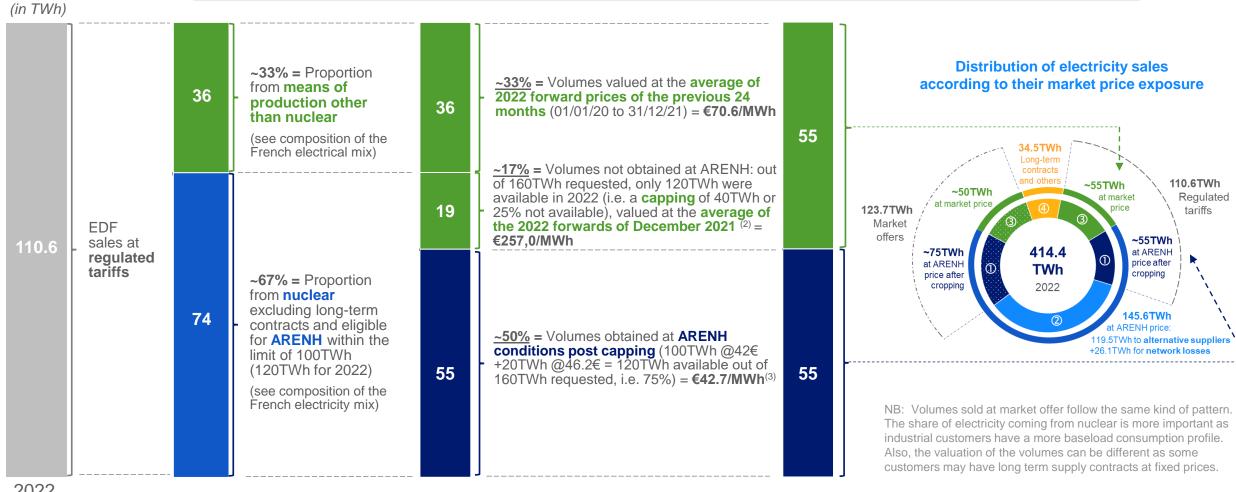
- (1) Cf. "France: upstream / downstream electricity balance" <u>p.86</u>. Estimated distribution based on the situation in 2022, in particular in terms of EDF downstream market shares.
- (2) Related to the replication of the sourcing cost structure of alternative suppliers: shares of the volumes corresponding to the "ARENH rights" including replication of additional volumes to the alternative suppliers

- Volumes sold at **ARENH price** following the cost-stacking formula in the **regulated sales tariffs** (essentially blue residential and non-residential tariffs) and to EDF final customers under **market-based contracts**⁽²⁾
- 2 Volumes sold at **ARENH price**(3), which include:
- the ARENH volumes of 100TWh that can be requested by alternative suppliers
- the 19.5TWh additional volume to the alternative suppliers in 2022 as required by the exceptional governmental measures (decree of March 2022)
- The purchase of losses by network operators for 26.1TWh
- ... **or at market price** if such price is lower than the ARENH arbitration threshold (ARENH price capacity price) not applicable in 2022
- 3 Volumes sold at **market price**, whatever the price, which include:
- Part of the volumes sold to EDF final customers: "market complement supply" in the regulated tariffs⁽⁴⁾, balance of the volumes sold to clients under market-based contracts
- · Volumes sold on wholesale power markets
- 4 Contracts at **negotiated prices** that do not follow a market-indexed structure, and hydro pumped volumes of 7.4TWh
- (3) EDF is subjected to the arbitrage between the two prices and its date of exercise is variable depending on the volumes (it takes place at the latest at the time of the ARENH end of year subscription window for a delivery the following year).
- (4) Related to the replication of the sourcing cost structure of alternative suppliers: the balancing volumes sourced on the market which exceed the "ARENH rights".



ILLUSTRATION OF THE ENERGY PART CALCULATION IN THE REGULATED TARIFFS FOR 2022⁽¹⁾

The energy part calculation in the regulated tariffs is replicating the sourcing cost of the alternative suppliers



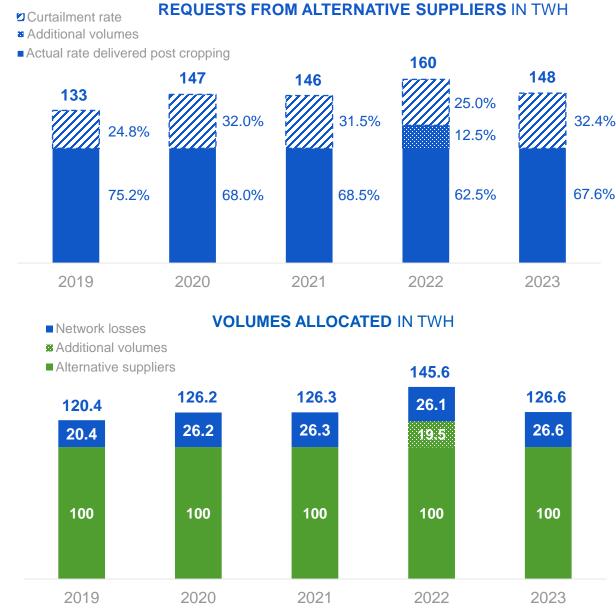
2022

- (1) 2022 was a particular year as regulatory measures increased exceptionally in 2022 the volume of ARENH available to alternative suppliers from 100 to 120TWh.
- Consideration of future market prices from 02/12/21 to 23/12/21, post announcement of the results of the November ARENH window (160TWh requested for 120TWh finally available post exceptional regulatory measures, leading to sourcing on the market of 40TWh "clipped", the so called "cropping effect").
- Post results of the November 2021 ARENH auction, taking into account the exceptional regulatory measures increasing ARENH volume available to alternative suppliers from 100 to 120TWh



ARENH: VOLUMES ALLOCATED TO ALTERNATIVE SUPPLIERS

- Historical situation: maximum annual sales volume of 100TWh to alternative suppliers for final consumption and ~26TWh for network losses coverage
- Volume sold for 2022: 145.6TWh including 19.5TWh added as part of the exceptional regulatory measures (cf. Decree published on 12 March 2022) and 26.1TWh sold for network losses coverage
- Consequently, from 1 April to 31 December 2022: delivery of 19.5TWh of additional ARENH volume at a price of €46.2/MWh, in exchange for the resale by the alternative suppliers to EDF of an equivalent volume, at a price of €256.98/MWh



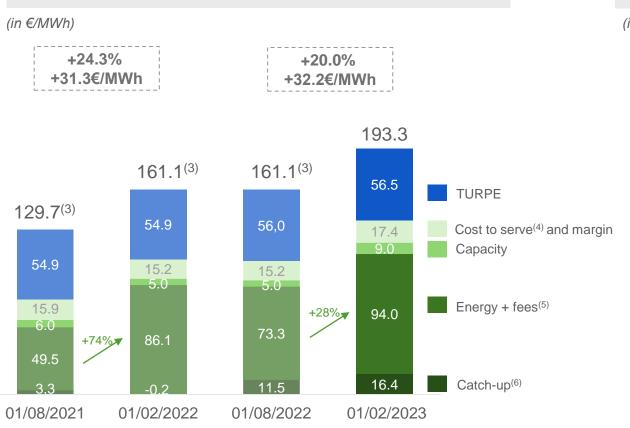
Source: CRE.

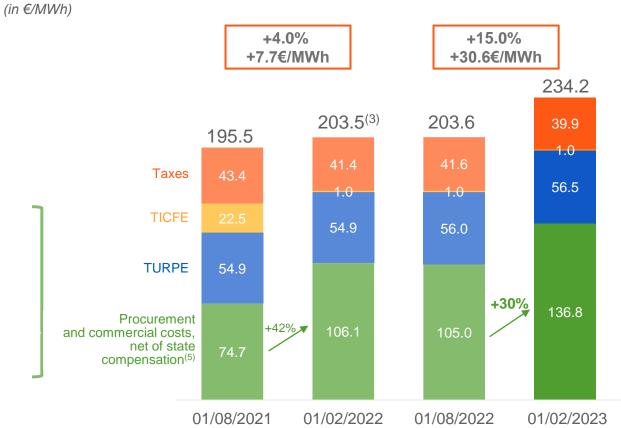


REGULATED SALES TARIFFS IN FRANCE: CHANGE IN 2021-2023

RESIDENTIAL BLUE TARIFF EXCLUDING TAXES(1)(2)

AVERAGE BILL BREAKDOWN VAT INCLUDED (BLUE RESIDENTIAL CUSTOMER)





- (1) Source: Journal Officiel.
- (2) The figures are based on an average calculation on customers portfolio at the Regulated Sales Tariffs at end-2021 (latest available database to date).
- (3) Due to rounding, the total is not strictly equal to the sum of the components.
- Including cost of Energy Efficiency Certificates.

- (5) For 2022 and 2023, this part takes into account the tariff cap for the current year. In February 2023, in particular, this part includes the catch-up under the 2022 cap and a **discount of €143.2/MWh** under the 2023 tariff cap. **This discount is compensated by the CSPE under the finance law for 2023** and will therefore not be subject to a catch-up in 2024.
- (6) Remaining tariff increase decided in Year-1 but invoiced in Year+1.

EDF GROUP MAIN BUSINESSES



| NI | | CL | Λ | |
|----|---|------------|---|--|
| IN | U | U L | A | |

> RENEWABLES

> THERMAL POWER

> REGULATED ACTIVITIES (mainly networks)

> OPTIMISATION & TRADING

> CUSTOMER SOLUTIONS

ENERGY SERVICES

> GAS

P. 40

P. 55

P. 68

P. 70

P. 77

P. 83

P. 91

P. 95



ENERGY SERVICES FOR THE GROUP'S RESIDENTIAL & B2B CUSTOMERS

RESIDENTIAL CUSTOMERS

The range of service offers is growing:



Monitoring of heating, air quality, charging station of electric vehicle, etc. by voice and by touch



Installation, maintenance and repair of heating and hot water equipment



Services for sustainable housing and electric mobility: energy renovation and comfort works, installation of charging stations and heating equipment (together with IZI Confort)



Electric mobility when traveling with the Izivia Pass



Solar photovoltaic solutions « *Mon Soleil & moi »* for self-consumption

B2B CUSTOMERS

- Projects as different as heat networks, intelligent lighting, low-carbon decentralised generation, energy management, sustainable mobility or eco-neighbourhoods
 - Smart building: Energy efficiency, energy management, self-consumption, heat recovery, ...



 Smart factory: Data, artificial intelligence, predictive maintenance, energy efficiency, flexibility management, circular economy, economic performance, ...



 Smart city: Local production, heat networks, renewable and recovery energy, thermal and electrical smart grids, collective self-consumption, urban services, ...



SERVICE SUBSIDIARIES: EXPERTISE ON THE ENTIRE B2B ENERGY CHAIN

Operation/

Maintenance

Installation

Management &

Monitoring

Funding

dalkia froid solutions **Heating and cooling** networks Valuation of local resources **edf** ENR **Energy management system datanumia Decentralised low carbon production Financing** dalkia electrotechnics **Urban services** street lightning (Citelum) **Electrical engineering** dalkia electrotechnics **Energy efficiency solutions** dalkia froid solutions



Consulting

Engineering

DALKIA: A MAJOR PLAYER IN THE ENERGY TRANSITION AT THE SERVICE OF ITS CUSTOMERS

Leader in energy services in France, Dalkia has been helping regions accelerate their sustainable energy performance for 80 years

ENVIRONMENTAL PERFORMANCE

Dalkia enables its customers to reduce their greenhouse gas emissions while

- > developing renewable and recovery energies locally,
- > and working on energy efficiency and the reduction of consumption

60.3% of renewable energies & recovery of heat networks⁽¹⁾ in 2021

2 6

2026 ambition 65% of renewable energies 4.2 million tons CO₂ avoided⁽²⁾ in 2022





- (1) Networks in France (SNCU scope).
- (2) 4m tonnes excluding CO₂ thanks to gas cogeneration CHP.



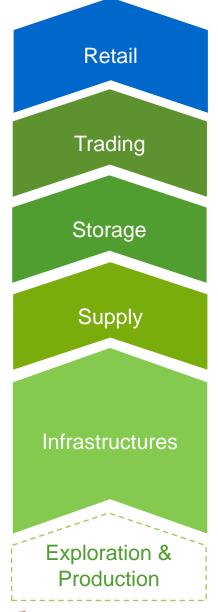
EDF GROUP MAIN BUSINESSES



| > | GAS | P. 95 |
|---|--|-------|
| | ENERGY SERVICES | P. 91 |
| | CUSTOMER SOLUTIONS | P. 83 |
| | OPTIMISATION & TRADING | P. 77 |
| | REGULATED ACTIVITIES (mainly networks) | P. 70 |
| > | THERMAL POWER | P. 68 |
| | RENEWABLES | P. 55 |
| > | NUCLEAR | P. 40 |



EDF IS WELL POSITIONED ON THE GAS VALUE CHAIN



- Presence on the European gas market for over 10 years, with ~6.4m customers and ~157TWh sold⁽¹⁾
- Dual-fuel offers (electricity and gas) and value-added services to clients
- Supply of EDF gas fired power plants
- Seeking arbitrages and optimising supply strategies
- Manage flexibility and regulated activity in Italy
- Examples: Cellino, Collalto and San Potito & Cotignola (Italy), Etzel storage (Germany)
- 6 gas import LT contracts: a gas portfolio well diversified and not dependent on Russia
- 1 LT LNG contract (USA) expected in H2 2023
- Small scale LNG to reduce emissions in heavy & maritime transport
- LT LNG regassification capacity available in France (61% of Dunkerque), Italy (80% of Rovigo) & Belgium (Zeebrugge)
- Development of import infrastructures pipelines: IGB started commercial operation in 2022 & EastMed under development
- Development of new gas uses & green gas (hydrogen & biomethane)
- Completion of Algerian E&P asset divestment expected in S1 2023⁽²⁾



- Main gas downstream markets
 - stream markets Storage centers
- --- Gas pipelines under development
- LNG storage inaugurated in October 2021
- Gas pipelines in operation since October 2022
- LNG storage under development
- 1 LNG vessel under construction (174k cubic meters)
- 1 LNG vessel inaugurated in October 2021 (30k cubic meters)
- (1) See $\underline{p.84}$ for details of the number of gas end-customers and sales in TWh per country.
- (2) Divestment of E&P activities in Algeria is subject to validation by local authorities and is expected to conclude in the first half of 2023.

GAS SUPPLY SOURCES AS OF TODAY

Gas supply portfolio based mainly on a series of long-term contracts

• The total volume of EDF's long-term gas contracts is 13.9bcm/year⁽¹⁾, of which 12.4bcm imported by Edison

Supplying country: USA

Counterpart: Cheniere (Corpus Christi – Texas)

Delivery: LNG

Quantity⁽¹⁾: 1Bcm/y

> Expiration: **2040**

Supplying country: Norway

Counterpart: Equinor ASA

> Delivery: Pipe

Quantity⁽¹⁾: 0.5Bcm/y

> Expiration: 2025

Supplying country: USA

> Counterpart: Venture Global

Delivery: LNG

Quantity⁽¹⁾: 1.4Bcm/y

> Start: **H2 2023**

> Expiration: 2043

Supplying country: Qatar

Counterpart: RasGas II

Delivery: LNG

Quantity⁽¹⁾: 6.4Bcm/y

> Expiration: 2034

Supplying country: Azerbaijan

97

Counterpart: AGSC

Delivery: Pipe

Quantity⁽¹⁾: 1Bcm/y

Expiration: 2044

Supplying country: Algeria

Counterpart: Sonatrach

Delivery: Pipe

Quantity⁽¹⁾: **1Bcm/y**

Expiration: 2027

Supplying country: Libya

Counterpart: Eni NA

Delivery: Pipe

Quantity⁽¹⁾: 4Bcm/y

Expiration: 2028

(1) Annual contracted quantities.



2022 FACTS & FIGURES MAIN BUSINESSES GAS

Sept TABLE OF CONTENTS

P.4
GROUP
STRATEGY

P.30
COUNTRY
PROFILE

P.39
EDF GROUP MAIN
BUSINESSES

P.98
FINANCIAL DEBT
& DEDICATED
ASSETS

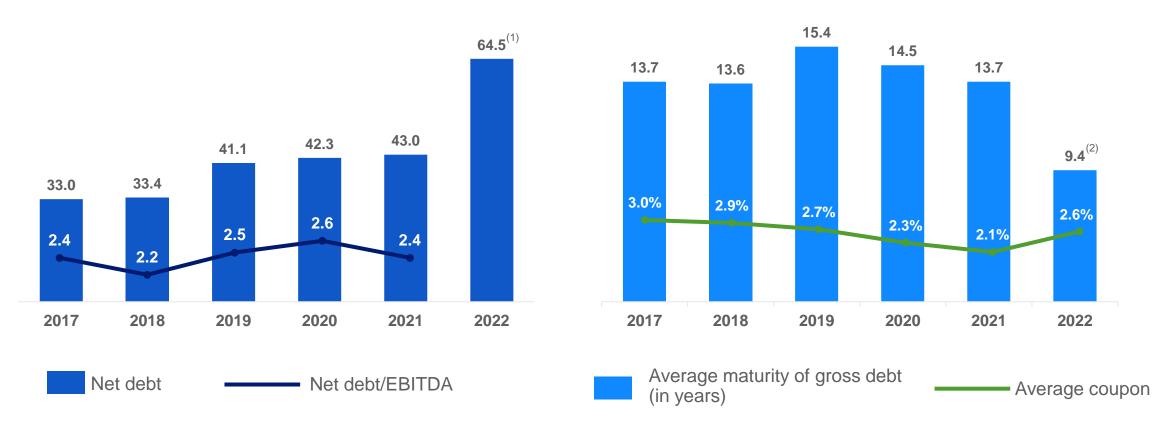
As a major player in energy transition, the EDF group is an integrated energy company active in all areas of the electricity industry and some areas of the gas industry: power generation using nnuclear, renewable and thermal energies; electricity transmission and distribution; sales; energy services; energy trading.

HISTORICAL FINANCIALS: FINANCIAL DEBT

Net debt and net debt/EBITDA evolution

Debt maturity and coupon evolution

In billions of euros

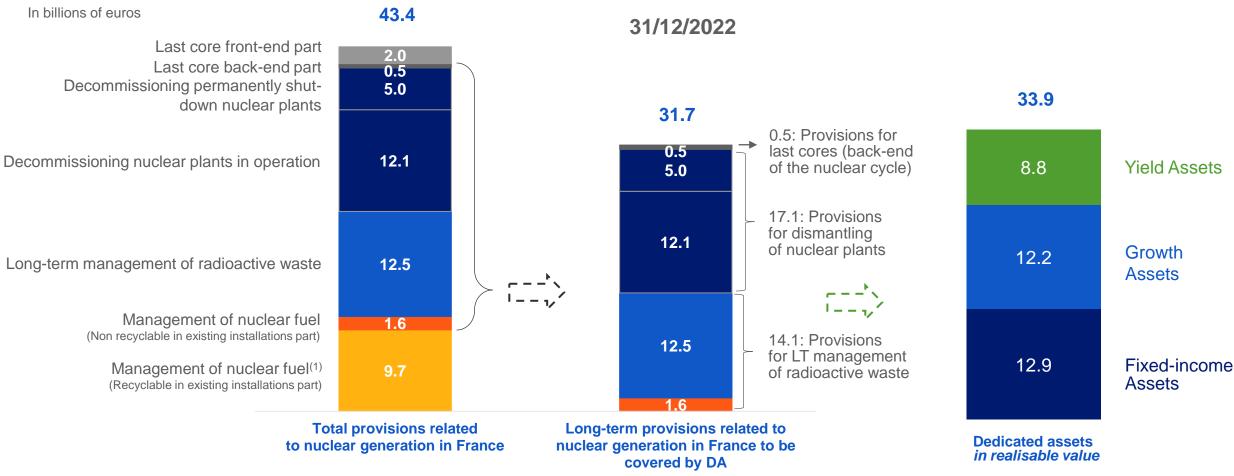


⁽¹⁾ As 2022 EBITDA is negative, 2022 net debt/EBITDA is not applicable.

⁽²⁾ The decrease in debt maturity is mainly linked to the €15bn term loans signed in 2022.



PROVISIONS RELATED TO NUCLEAR GENERATION IN FRANCE AND PART TO BE COVERED BY DEDICATED ASSETS



- (1) Related to the operating cycle.
- At 31 December 2022, the regulatory coverage is 107.1% (109.3% at 31 December 2021)
- No allocation to DAs to be made in 2022 in respect of 2021 owing to a coverage rate of over 100%, in accordance with the regulation applicable since 1 July 2020



DEDICATED ASSETS: PERFORMANCE AND ALLOCATION

Global 2022 performance: -8.5%



YIELD ASSETS: +11.2%

Resilient yield of the Infrastructure and Property assets

- → Portfolio of non-listed assets only (EDF Invest)
- → Effective sector and geographical diversification



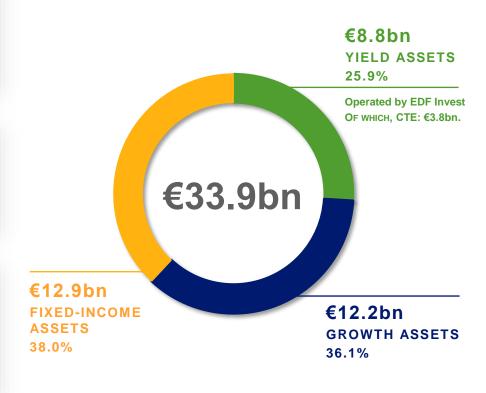
GROWTH ASSETS: -15.8%

- → Sharp decline in equities valuation, in a context of sustained inflation and interest rates hikes
- → Higher volatility in 2022, but in line with the market



- → Rising interest rates and wider credit spreads weighed on bonds valuation.
- → However reduced sensitivity of the portfolio and fund selection helped to limit the decline in value.

2022 allocation



Performance +5.6% on an annualised basis since early 2004

A strategic allocation was defined in 2018 to improve the adequacy of the profile of dedicated assets to the long-term nature of the disbursements to be covered (Growth assets: 40%, Fixed-income assets: 30%, Yield assets: 30%).

The targets of the new allocation will be met progressively, as investments are made, entailing a gradual rebalancing from fixed-income assets to yield assets.



101

EDF INVEST, THE INVESTMENT PLATFORM FOR NON-LISTED ASSETS

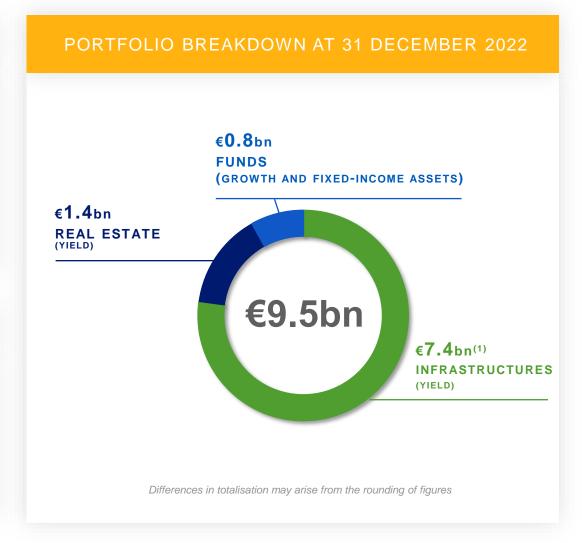
MANAGEMENT OF DEDICATED ASSETS...

- EDF Invest is the unlisted investment arm of EDF's Dedicated Assets
- Among Dedicated Assets, unlisted assets are invested in various geographical zones (mainly OECD) and sectors, under 3 assets classes
 - Infrastructure
 - Real Estate
 - Funds portfolios

... FOR A DIVERSIFIED PORTFOLIO

In 2022, EDF Invest mainly **diversified** its portfolio through the acquisition of **minority stakes in infrastructure assets**

- Telecom: Norlys Fiber, a fibre optic network in Denmark
- Digital: DataBank, data centres in the USA



(1) Of which CTE: €3.8bn.



2022 FACTS & FIGURES FINANCIAL DEBT & DEDICATED ASSETS

