SREDF

2022 Q1 HIGHLIGHTS & SALES COMPLEMENTARY BOOK

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SALES FIRST QUARTER 2022 STRATEGY AND INVESTMENTS



EDF HYDROGEN PLAN

LE PLAN HYDROGÈNE

TARGETS

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

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

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

Main markets addressed: **Industry and transport** (in territorial mobility and e-fuels ⁽³⁾ 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) E-fuels are synthetic fuels made from low carbon electricity (i.e. e-ammonia, e-methanol or e-jetfuel). They are low carbon fuels meant to replace fossil fuels. (Electrolytical hydrogen is often an intermediate step to produce other e-fuels).
- (4) Eifer, joint research centre of EDF and the Karlsruher Institut für Technologie (KIT) in Germany
- (5) IPCEI : Important Project of Common European Interest ; LDAE : Lignes Directrices Aides d'Etat (State Aid Guidelines)

ACHIEVEMENTS AND PROJECTS

A dedicated subsidiary and expertise within the Group

Hynamics, a 100% EDF subsidiary dedicated to hydrogen since 2019

Long-standing expertise provided by Eifer $^{\rm (4)}$ and R&D, including an electrolyser test platform at the EDF Lab Les Renardières site

A stake in the McPhy French electrolyser manufacturer since 2018 (14.1% to date)

First facility commissioned in 2021 & projects

Commissioning by Hynamics of the largest French electrolytic hydrogen production and distribution site in Auxerre (1MW). About 15 other territorial mobility projects under development

Major projects for the industry under development which will benefit from public support (within the framework of the IPCEI or the LDAE⁽⁵⁾)

The Hynovi project (330 MW of electrolysis) in partnership with the cement manufacturer Vicat in France to produce e-methanol

- In France, the ABC Ottmarsheim project with Boréalis to decarbonise ammonia production and the HYDOM project with Domo Chemicals
- In Germany, notably the Westküste project (30 MW), which will continue with the Hyscale project (500 MW in phase 1)

In total, a portfolio of some 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 other regions of the world, including the Middle East, North America and Latin America



FLAMANVILLE 3 EPR (1,650MW) (1/2)

CONSTRUCTION PROGRESS

UPGRADE ON

THE MAIN

SECONDARY

CIRCUIT WELDS

All the fuel required for the first loading now received. First regulatory inspection performed by Euratom in August 2021 confirming the good site organisation in terms of reception and storage of nuclear materials

More than 90% completion rate in the reactor building, in the machine room, and in the diesel rooms.

Penetration welds: Repairing the welds located on the pipes within the double concrete containment of the reactor building

- Number of welds involved: 8 VVP⁽¹⁾ and 4 ARE⁽²⁾
- Status: 8 VVP welds repaired, all checked as compliant by EDF prior to stress-relieving heat treatment. Validation of ASN for the repair process for the 4 ARE welds. To date, 2 welds are completed, compliance check yet to be performed.

Other welds: Upgrading and repairing welds

- Number of welds involved: 45 VVP $^{(1)}$ and 32 ARE $^{(2)}$
- Status : 90% of the welds involved (VVP and ARE) are being upgraded. To date, 19 VVP welds are completed before stress-relieving heat treatment and 6 ARE welds are completed after stress-relieving heat treatment

Stress-relieving heat treatment

- · VVP penetration welds: optimised stress-relieving heat treatment processes validated by ASN
- Other welds and ARE penetration welds: part of the optimised stress-relieving heat treatment has been validated by the ASN. The pending validations, based on the supporting files provided by EDF, concern around 60 welds

The repair of the welds of the main secondary system is part of the critical project paths





ARE 🔘

(1) Steam discharge pipework circuit

Water supply circuit for steam generators



FLAMANVILLE 3 EPR (1,650MW) (2/2)

Main primary circuit: incomplete consideration of the "break preclusion" referential concerning three nozzles

In a letter dated 8 October 2021, the ASN confirmed that it had no opposition in principle to the solution proposed by EDF, which consists in installing a "Retainer Clamp" for the treatment of these three nozzles. The design file for this solution will be examined by the IRSN

Filtration sump SIS/CHRM ⁽¹⁾

- Test results carried out in summer 2021 at the ASN's request : fragments filtration issue detected
- An action plan has been defined and presented to the ASN in December 2021. The instruction is ongoing

Lessons-learned from the technical issue at the Taishan No.1 reactor

Inspections carried out on fuel assemblies of the Taishan No.1 reactor following the technical issue encountered during its second operating cycle showed mechanical wear ⁽²⁾ of certain assembly components. In the perspective of the commissioning of Flamanville 3, a solution will be instructed with the ASN, in order to carry out the potential necessary modifications

SCHEDULE AND COSTS

OTHER

TECHNICAL

ISSUES

In its press release on 12 January 2022, EDF has updated these elements taking into account of the progress on operations and preparations for commissioning. The fuel-loading date was postponed to Q2 2023. The estimated construction completion cost has increased from €12.4bn to €12.7bn ⁽³⁾

Costs arising from post-commissioning modifications are not included in the construction cost of the project

The project has no margin either in terms of schedule or completion costs

- (1) SIS = Safety injection system, CHRM = containment heat removal system
- (2) See press release of 12 January 2022

⁽³⁾ In 2015 euros, excluding interim interest (see note 10.6 of the Group financial statements). This estimate takes into account the analytical allocation of part of the compensation paid by AREVA under the settlement agreement reached on 29 June 2021



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HINKLEY POINT C

RISK REASSESSMENTS

- The risks on the schedule and cost at completion have increased since the update announced in January 2021 ⁽¹⁾ due to the compounded impacts of Covid, Brexit, lower civil productivity, the Ukrainian conflict and supply chain disruption
- The project is impacted by materials shortages and inflation
- A new comprehensive review of the schedule and cost at completion is underway and expected to be completed in the second quarter of 2022 ⁽²⁾

CONSTRUCTION PROGRESS

- The second Liner Ring has been lifted into the Reactor Building of Unit 1 in March *(see picture below)*
- The 3.5km Second Intake tunnel drive has been completed in March. The boring of the 3 tunnels is now completed



REMINDER ON KEY DATA

- The number of people working on site has increased from c. 6,000 in Q1 2021 to c.7,700 in Q1 2022
- The agreements between EDF and CGN include a compensation mechanism between both shareholders in case of overrun of the initial budget or delays. This mechanism is applicable and will be triggered when the time comes. This arrangement is part of the agreements signed between EDF and CGN in September 2016 and is subject to a confidentiality clause.
- The project's total financing needs exceed the contractual commitment of the shareholders and shareholders will be asked to provide additional equity on a voluntary basis in 2023 (estimation). This could lead the Group to increase its contribution to the financing of the project from this date if its partner decided not to contribute beyond the contractual commitment

- (1) See EDF'S press release of 27 January 2021 "Hinkley Point C project update"
- (2) At end-2021, the actual costs (excluding interim interests, which stood at €835m) for the whole project (costs calculated on the basis of a 2% inflation assumption for the construction period) stood at £15.3bn at nominal values (or £₂₀₁₅13.6bn)

SIZEWELL C

MAIN ASPECTS

- Project of 2 UK European Pressurised Reactors (EPR) at Sizewell on the Suffolk coast for a total capacity of 3.2GW
- Power supply to 6 million households for around 60 years
- Replication as much as possible of the Hinkley Point C design and supply chain
- FID ⁽¹⁾ subject to the conditions being met
- As of today, EDF's stake is 80% and CGN's is 20%.



(1) Final Investment Decision

KEY ELEMENTS

EDF involvement in SZC

- EDF plans to have a stake of 20% maximum by the date of FID⁽¹⁾ at the latest
- After FID, EDF group intends to supply the design, some key nuclear equipments and components as well as associated services

UK government support for the development of large-scale nuclear projects

- Target of up to 24 GW of installed nuclear capacity by 2050 representing up to around 25% of the projected electricity demand
- Up to £1.7 billion allocated to the development of large-scale nuclear projects over the period 2022-2025
- The UK government is in active negotiations with EDF on the Sizewell C project

Regulation:

- Nuclear Energy Financing Act published in April 2022, which implements a Regulated Asset Base (RAB) model for nuclear projects, allowing designated companies to receive a regulated revenue stream
- Ongoing discussions on the terms of the RAB model and Government Support Package (GSP) for the Sizewell project

Financing until FID:

- · Ongoing discussions with the UK government on the financing of the remaining development costs until the FID
- £100 million received from the UK government in January 2022 in exchange for an option over the site land or over EDF's shares in the project company

Conditions for the FID:

- EDF's ability to participate in the FID alongside other investors depends on the fulfilment of some conditions including :
 - Sufficient funds to finance the development costs until FID
 - An appropriate financing structure and risk sharing mechanism during construction and operation and sufficient investors and debt holders willing to invest into the project. This is subject in particular to achieving an investment grade credit rating
 - An agreement with the key suppliers on the key contracts
 - Obtaining all the required consents and permits. The decision by the Secretary of State (SoS) for BEIS to grant Development Consent Order (DCO) is expected by the end of May 2022
 - The ability not to consolidate the project in the Group's financial statements (including in the calculation of the economic indebtedness by the rating agencies) after a FID
- Not meeting these conditions could lead the Group not to take a FID

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TECHNICAL ISSUE AT THE TAISHAN EPR

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MAIN ASPECTS OF THE TAISHAN EPR

- EDF holds a 30% stake in TNPJVC ⁽¹⁾, which operates two EPR nuclear reactors (1,750MW each) in Taishan in the Guangdong Province
- The commercial commissioning of unit 1 was on 13 December 2018 and that of unit 2 on 7 September 2019. After their initial 18-month fuel cycle, each unit carried out its first "Initial Complete Visit" outage with reloading



- Atypical evolution of radiochemical parameters, leading to suspicion that fuel assembly rods had become unsealed ⁽²⁾
- Shutdown of reactor 1 and defueling operations in August 2021
- According to investigations by the competent authorities and the operation on the fuel assemblies, to date, the loss of sealing would be due to a deterioration of the rod cladding owing to mechanical wear stemming from the rupture of small rod hold-down systems in the assemblies ⁽³⁾
- After an investigation by the competent authorities, this review could, eventually, result in adjustments to the manufacturing process and the implementation of a different technology to hold the rods in place in the assemblies
- Inspections of the assemblies and the interior of the vessel have also revealed a localised phenomenon between the assemblies and a component covering the core related to hydraulic exposure. Studies are underway to determine arrangements to reduce interactions between the assemblies and the core barrel
- An analysis concerning the other EPR projects is ongoing
- The file for the restart of the reactor n°1 is currently being examined by the Chinese National Nuclear Safety Administration

(1) Taishan Nuclear Power Joint Venture Company Limited(2) See the 14 June 2021 and 22 July 2021 press releases

(3) See 12 January 2022 press release

TECHNICAL ISSUE: FEEDBACK



Strategy and investments	Renewables F	rance – Generation and supply	Consolidated sales	Operational data and markets
NACHTIGAL H	YDROELECTRIC DAM	I IN CAMEROON	(1)	
MAIN ASPECTS OF THE PROJECT	 Design, construction and operation for a period Nachtigal Falls Construction of a 50-km power transmission Project will be operated by NHPC (Nachtigal (20%), the Republic of Cameroon (15%), Afri Expected annual power generation of 3TWh, Substantial economic benefits: up to 3,000 diradius of the construction site. The project will 	od of 35 years of a 420MW run-of-the line Hydro Power Company), established ca50 (15%) and STOA (10%) which will cover 30% of the energy r irect jobs during peak construction pe Il generate dozens of permanent jobs	e-river hydropower plant of I since December 2018, of needs of the country priods, of which 65% will	on the Sanaga river near the currently owned by EDF (40%) ⁽²⁾ , IFC be locally sourced within a 65km
FINANCING STRUCTURE	 Project's expected total cost: €1.2 billion Shareholders' equity to fund a quarter of the The lender group includes 11 Development F local commercial banks ⁽³⁾ The largest hydropower project ever built in A finance debt 	project, lenders to fund the rest Finance Institutions (DFI) and 4 Africa through non-recourse project	420MW ru	n-of-the-river hydropower plant
TIMELINE	 Final and binding agreements signed on 8 Ne on 24 December 2018 Start of construction in March 2019, 58% of c 31/03/2022 Construction slowdown: the Covid-19 pander production difficulties have led to an estimate commissioning, now planned for summer 202 	ovember 2018, financial closing civil engineering achieved at mic and concrete supply and ed 10-month delay in operational 24		
 Refer to the press release published Equity consolidation method 	by EDF on 8 November 2018	(3) Including: AfDB, IFC (I European DFI coordina include: Attijari/SCB, B	nternational Finance Corporat ated by Proparco (AFD, DEG a ICEC, SG Cameroun and Sta	ion) – member of the World Bank Group, CDC, and FMO), EIB, OFID,EAIF, AFC. Local banks ndard Chartered

edf

2022 Q1 HIGHLIGHTS & SALES

Strategy and	Ponowoblas	France – Generation and		Operational data and marke
investments	Kellewables	supply	Consolidated sales	

EXISTING NUCLEAR FLEET AND "GRAND CARÉNAGE" PROGRAMME

<i>GRAND CARÉNAGE</i> PROGRAMME: FIRST PHASE	 Targets of the first phase 2014-2025: Extend operating lifespan beyond 40 years Help the fleet meet its production targets in complete safety Secure and optimise the financial trajectory of investments Strategy confirmed by the guidelines laid out in the multi-annual energy plan 	In €bn 6 5 6 2022-28: €33bn → 5 6 2014-25: €50.2bn → 4
EXTENSION OF TECHNICAL SCOPE AND TIMEFRAME: SECOND PHASE	 Launch of the second phase of <i>Grand Carénage</i> programme for the period 2022-2028, including ⁽¹⁾: Continuation of the fourth ten-year visits of 900MW reactors, with additional works in accordance with ASN recommendations Studies and launching of the fourth ten-year visits of 1,300MW reactors based on feedback from the ruling on the fourth ten-year visits of 900MW reactors Prior studies for the continued operation beyond 50 years of 900MW reactors Continuation of maintenance operations and replacement of large components to allow to extend lifespan of the fleet beyond 50 years 	3 2 1 0 20 ¹ 20 ¹⁶ 20 ¹⁶ 20 ¹⁷ 20 ¹⁶ 20 ¹⁹ 20 ²⁰ 20 ²¹ 20 ²² 20 ²⁴ 20 ²⁵ 20 ²⁴ 20 ²⁵ 20 ²⁶ 20 ²⁴ 20 ²⁵
CORRESPONDING FINANCIAL TRAJECTORY	 2014-2025 period total costs amounting to €50.2bn Total expenses for the new scope of the 2022-2028 period estimated at €33bn ⁽²⁾ 	Chronique 2014-25 Chronique 2022-28 LAUNCH OF THE SECOND PHASE OF THE <i>GRAND CARÉNAGE</i> PROGRAMME AN AVERAGE INVESTMENT OF €4.7BN A YEAR



2022 Q1 HIGHLIGHTS & SALES

(1) It excludes repairs that would be necessary due to stress corrosion phenomena. (2) A part of which relates to the first 2014-2025 period, see graph above.

and	Ponowables	France – Generation and	Consolidated sales	Operation
nts	Reliewables	supply	Consolidated sales	Operation

SHARE CAPITAL INCREASE WITH PSR ⁽¹⁾: MAIN CHARACTERISTICS & OPERATION'S RESULTS

Key features	s of the EDF Rights Issues of March 2022							
Amount	Amount €3.1bn (498 millions new shares)							
Subscription party	2 new shares for 13 existing shares							
Subscription price	€6.35 per new share							
Discount	25.5% of the theorical ex-rights price at the close of March 2022							
	Operation's results							
Total demand rate subscription	€4.1bn 129%							
Total market demand rate subscription (excl. French State)	€1.4bn 280%							

Thus the State holds **83.88%** of share capital and **88.76%** of voting rights post share capital increase vs 83.88% of share capital and 89.18% of voting rights before the operation

Strategy

COMPARATIVE CREDIT RATINGS



	S&P ratings	Moody's ratings	Fitch ratings
EDF	BBB negative ⁽¹⁾	Baa1 negative ⁽²⁾	BBB+ negative ⁽³⁾
Engie	BBB+ stable	Baa1 stable	A- stable
Vattenfall	BBB+ positive	A3 stable	n.d.
SSE	BBB+ stable	Baa1 stable	BBB stable
Iberdrola	BBB+ stable	Baa1 stable	BBB+ stable
Enel	BBB+ stable	Baa1 stable	BBB+ stable
E.ON	BBB stable	Baa2 stable	BBB+ stable
Uniper	BBB stable	n.d.	n.d.
RWE	n.d	Baa2 stable	BBB+ stable

Sources: rating agencies as of 28/04/2022

(1) Update of the rating and outlook of EDF SA by S&P on 21 February 2022

(2) Update of the rating and outlook of EDF SA by Moody's on 21 February 2022

(3) Update of the rating and outlook of EDF SA by Fitch on 2 March 2022



2022 Q1 HIGHLIGHTS & SALES

2022 Q1 HIGHLIGHTS & SALES RENEWABLES



trategy and

rance – Generation and

Consolidated sales

EDF, THE EUROPEAN LEADER IN RENEWABLE ENERGY

NET INSTALLED CAPACITY: 34.8GW ⁽¹⁾



(2) Including sea energy: 0.24GW

Strategy and Renewables	France – Generation and supply	Consolidated sales	Operational data and markets
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A PORTFOLIO OF WIND AND SOLAR PROJECTS OF ~76GW⁽¹⁾

A PROJECT PORTFOLIO THAT IS DIVERSIFIED GEOGRAPHICALLY...

... AND BALANCED BETWEEN WIND AND SOLAR



NB: situation at 31/12/2021

- (1) 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
- (3) Start of construction portfolio, not probability-based

2022 Q1 HIGHLIGHTS & SALES



(following a call for tenders, auction, OTC

negotiation)

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OFFSHORE WIND DEVELOPMENTS IN FRANCE: 5 PROJECTS FOR A TOTAL CAPACITY OF MORE THAN 2GW, INCLUDING ~ 1.5GW UNDER CONSTRUCTION

ONGOING CONSTRUCTIONS

- Saint-Nazaire offshore wind farm (started in 2019, expected commissioning in 2022, ~€2bn total investments, partnership with Enbridge)
 - Installation of the first wind turbine on 13 April 2022
- Fécamp offshore wind farm (started in 2020, expected commissioning in 2023, ~€2bn total investments, partnership with Enbridge and WPD)
- Calvados offshore wind farm (Courseulles-sur-Mer)
 - Start of construction in February 2021
 - Expected commissioning in 2024
 - ~€2bn total investment, partnership with Enbridge and WPD

FURTHER DEVELOPMENTS

- Ongoing development of **Dunkirk offshore wind farm** (~€1bn total investment, partnership with Enbridge)
- Pre-selection for projects in Normandy in partnership with Enbridge and CPPIB
- Construction of Provence Grand Large, a pilot floating wind project: installation of three 8MW turbines on floating foundations off the coast of Fos-sur-mer. Project led in partnership with Enbridge and CPPIB
- Pre-selection for projects in South Brittany with Enbridge and CPPIB



INTERNATIONAL OFFSHORE WIND DEVELOPMENTS: NEARLY 4GW IN DEVELOPMENT, 450MW UNDER CONSTRUCTION IN SCOTLAND

Codling project in Ireland

Renewables

- Equity investment of 50%
- Project under development in South Dublin, located on 2 adjacent sites
- Irish CfD ("RESS") auction targeted for 2022
- Total capacity: ~1GW

Neart Na Gaoithe project in Scotland Start of construction in 2019

- Total capacity: 450MW (54 turbines)
- Partnership with the Irish utility ESB at 50%
- Total investment: ~£2bn
- Contract for Difference (CfD) over 15 years (£114/MWh in £₂₀₁₂)

Blyth 2 project in England

- Floating demonstrator project near the Blyth 1 park (installed, 5 turbines for 42MW
- Maximum capacity of 58MW
- In partnership with Tenaga (investment in 2021 for the entire Blyth project), Malaysian utility

Atlantic Shores project in the United States

- Joint-venture company "Atlantic Shores Offshore Wind" (ASOW) with Shell
- ~750km² Lease Area secured 12-16 km off the shoreline in shallow waters
- Contract awarded in July 2021 by New Jersey Board of Public Utilities to ASOW to develop 1.5GW off the New York Bight
- Construction scheduled to begin in 2024
- In March 2022, seabed lease awarded to EDF consortium in New York Bight to develop offshore wind energy of 1.5GW

Gwynt Glas project in Celtic sea

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- Equity investment in offshore wind farm project in Celtic sea with DP Energy
- **Potential of 1GW** (70km off the shorelines) to submit to future tenders

Dongtai IV and V projects in China

- Joint-venture with China Energy Renewables, a subsidiary of China Energy Investment Corporation
- Total capacity: 502MW (Dongtai IV: 302MW, Dongtai V: 200MW)
- Commissioning of Dongtai V achieved in 2021 (Dongtai IV commissioned in December 2019)

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NET INSTALLED AND UNDER CONSTRUCTION CAPACITY – 31 MARCH 2022



INSTALLED CAPACITY AND CAPACITY UNDER CONSTRUCTION, WIND & SOLAR, AS OF 31 MARCH 2022

(in MM)	Gros	s ⁽¹⁾	Net ⁽²⁾		
	31/12/2021	31/03/2022	31/12/2021	31/03/2022	
Wind	13,606	13,748	9,047	9,187	
Solar	5,399	5,397	2,975	2,825	
Total installed capacity	19,005	19,145	12,021	12,012	
Wind under construction	3,391	3,249	2,169	2,029	
Solar under construction	4,495	4,620	2,350	2,476	
Total capacity under construction	7,885	7,868	4,520	4,505	

NB: The values correspond to the expression to the first decimal or integer closest to the sum of the precise values, taking into account rounding

(1) Gross capacity: total capacity of the facilities in which EDF has a stake

(2) Net capacity: capacity corresponding to EDF's stake

CDF 2022 Q1 HIGHLIGHTS & SALES

2022 Q1 HIGHLIGHTS & SALES FRANCE – GENERATION AND SUPPLY



FRANCE NUCLEAR OUTPUT



Nuclear output in France amounted to 91.7TWh, i.e. 7.5TWh less than over the same period in 2021, due to lower availability of the nuclear fleet, mainly in relation to the impact of the detection of indications of stress corrosion.

FRANCE: UPSTREAM / DOWNSTREAM ELECTRICITY BALANCE



NB: EDF excluding Islands electrical activities

(1) Hydro output after deduction of pumped volumes: 7.5TWh on 2022 / 12.2TWh on 2021

(2) Including hydro pumped volumes of 1.9TWh on 2022 / 1.5TWh on 2021

	Renewables	France – Generation and supply	Consolidated sales	Operational data and markets

10-YEAR INSPECTIONS OF THE NUCLEAR FLEET







ELECTRICITY SUPPLY IN FRANCE

SALES TO END CUSTOMERS ^{(1) (2)}

(in TWh)



(1) Rounded to the nearest tenth

(2) Including EDF's own consumption

(3) Blue professional tariff, LDC (Local Distribution Companies) at transfer price and Yellow and Green tariffs, below 36kVA that persist beyond 2015

	Renewables	France – Generation and supply	Consolidated sales	Operational data and markets
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ELECTRICITY SUPPLY IN FRANCE – SALES UNDER REGULATED TARIFFS SPLIT



Including EDF's own consumption

(2) Local Distribution Companies (LDCs)

2022 Q1 HIGHLIGHTS & SALES

Of which Yellow and Green tariffs for 0.2TWh - Tariffs lower than 36 kVA

Strategy and Renewables	France – Generation an supply	d Consolidated	I sales Operational data and markets
CAPACITY MARKET IN FRAM	NCE		
	CAPACITY AUCTION P	RICES ⁽¹⁾	
FOR DELIVERY IN 2022	FOR DELIV	ERY IN 2023	FOR DELIVERY IN 2024
(in €/kW)	(in €/kW)		(in €/kW)
39.0 39.0 16.6 18.1 18.2 28.3 28.2 28.3 28.2 28.8 29.9 31.5 23.9 23/04/20 25/06/20 15/10/20 10/12/20 11/03/21 22/04/21 24/06/21 23/09/21 28/10/21 09/12/2 > Volume of certified EDF capacities: 64.2GW at end-April 2022	42.4 1 24/03/2022 Volume of certified EDF end-April 2022	42.5 28/04/2022 capacities: 62.4GW at	20.0 28/04/2022 Solution State Stat
> Average price ⁽²⁾ : €26.2/kW	Average price ⁽²⁾ : €42.4/	kW	Average price ⁽²⁾ : €20.0/kW
(1) Data rounded to neare (2) Does not take into acc	est tenth ount rebalance sessions		

ARENH: VOLUMES ALLOCATED



- > Historical situation: maximum annual sales volume of 100TWh⁽¹⁾ by EDF to alternative suppliers and 26.4TWh for network losses coverage
- > In November 2021, ARENH requests from alternative suppliers for 2022 amounted to 160TWh.
- > 13 January 2022: announcement of an exceptional additional allocation by EDF to other electricity suppliers of 20TWh of ARENH volumes for 2022, for the period from 1 April to 31 December 2022 at €46.2/MWh, in addition to the exceptional measures dedicated to limit the electricity price increase in 2022.
- ➤ The Application Decree No. 2022-342 published on 12 March 2022 details the terms and conditions related to the exceptional ARENH delivery period and conditions its access to the resale by Alternative Suppliers to EDF of an equivalent volume at €257/MWh.
- Volume sold for 2022 (including 26.4TWh sold for network losses coverage): 146.4TWh, of which 20TWh corresponding to the exceptional increase announced the 13 January 2022.

Source: CRE

⁽¹⁾ The Energy and Climate Change law of November 2019, provides the government with the possibility of raising the cap for global maximal volumes via a ministerial order, from 100 to 150TWh as of 1 January 2020. The law also allows the government to revise the ARENH price.

REGULATED SALES TARIFFS IN FRANCE (1/2)

PDF

Change in Blue tariff

Dete	Change in Resid	lential Blue tariff	Change in Non-Res	sidential Blue tariff
Date	(taxes excluded)	(including taxes)	(VAT excluded)	(including VAT)
01/02/2018	+0.7%	+ 0.6%	+1.6%	+ 1.3%
01/08/2018	-0.5%	- 0.3%	+1.1%	+ 0.9%
01/06/2019	+7.7%	+ 5.9%	+7.7%	+ 5.9%
01/08/2019	+1.49%	+ 1.26%	+1.34%	+1.1%
01/02/2020	+3.0 %	+2.4%	+3.1%	+2.4%
01/08/2020	+1.82%	+1.54%	+1.81%	+ 1.58%
01/02/2021	+1.93%	+1.61%	+3.23%	+2.61%
01/08/2021	+1.08%	+0.48%	+0.84%	+0.38%
01/02/2022 (1)	+24.3%	+4.0%	+23.6%	+4.0%

REGULATED SALES TARIFFS IN FRANCE : CHANGE IN FEBRUARY 2022 (2/2)



- (1) Source: for Feburary 2022, date of the decree of 28 January 2022 published at the *Journal Officiel* on 30 January 2022
- (2) For August 2021 and February 2022, the figures are based on an average calculation on customers portfolio at the Regulated Sales Tariffs at end-2020 (base calculation for the CRE deliberation of 18/01/2022)

2022 Q1 HIGHLIGHTS & SALES

- (3) As part of the tariff shield, part of the 2022 increase is postponed to 2023 to limit the average increase in the 2022 residential blue tariff to 4% including taxes
- (4) Including cost of Energy Efficiency Certificates
- (5) Commercial costs of 2021 + catch-up of January 2021 (catch-up of the tariff freeze of 2019 is ended)
- (6) Due to rounding, the total is not strictly equal to the sum of the components
- (7) Ex CSPE

REGULATORY MEASURES IMPACTS ON 2022 EBITDA

Impacts on the 2022 EBITDA of the decree published on 12 March 2022, based on the average of forward market prices between 2 and 23 December 2021 (257€/MWh):

- An additional 20TWh of ARENH at €46.2/MWh to be delivered from April to December 2022 to alternative suppliers whose demand was capped during the end-2021 auction : impact estimated at around -€4.2bn
- The impact of this additional allocation is replicated in EDF offers (regulated tariffs and market offers): impact estimated at around -€4.5bn
- Margin level freeze in €/MWh for residential regulated tariffs: impact estimated at around -€0.6bn
- Portion of the 2022 residential regulated tariff postponed to 2023, aiming at limiting the increase to 4% including taxes and an extension of residential regulated tariff measures to the professional regulated tariff and non-interconnected zones (freeze in margin level and tariff postponement): impact estimated at around -€0.9bn



2022 Q1 HIGHLIGHTS & SALES CONSOLIDATED FINANCIAL STATEMENTS



				France – Generation and supply	Consolidated sales	Operational data and marke
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CHANGE IN SALES ⁽¹⁾

In millions of euros	Q1 2021	Forex	Scope	Organic growth	Q1 2022	∆ % org. ⁽²⁾
France – Generation and supply activities	8,834	-	1	4,103	12,938	+46.4
France – Regulated activities (3)	5,598	-	-	402	6,000	+7.2
Framatome	728	15	27	(32)	738	(4.4)
United Kingdom	2,689	123	(99)	716	3,429	+26.6
Italy	2,029	-	3	4,969	7,001	x3.5
Other international	693	20	179	605	1,497	+87.3
EDF Renewables	437	21	-	48	506	+11.0
Dalkia	1,350	4	(31)	669	1,992	+49.6
Other activities	891	13	(36)	2,540	3,408	x3.9
Inter-segment eliminations	(1,300)	-	-	(626)	(1,926)	+48.2
Total Group	21,949	196	44	13,394	35,583	+61.0

(1) Breakdown of sales across the segments, before inter-segment eliminations

(2) Organic change at constant scope and exchange rates

(3) Regulated activities: Enedis, ÉS and island activities; Enedis, an independant EDF subsidiary as defined in the French energy code

edf



		France – Generation and supply	Consolidated sales	Operational data and markets

RENEWABLE ENERGIES

	EDF REN	EWABLES		
In €m	Q1 2021	Q1 2022	∆ %	$\Delta\%$ Org. ⁽¹⁾
Sales	437	506	+15.8	+11.0

GROUP RENEWABLES EXCLUDING HYDRO FRANCE

In €m	Q1 2021	Q1 2022	$\Delta \%$	Δ %Org. ⁽¹⁾
Sales excluding Hydro France)	654	845	+29.2	+24.9

- > **Output** of 5.5TWh, +30.4% owing to:
 - Growth in commissioned capacity
 - More favourable wind conditions in particular in the United Kingdom
 - Positive price effects in the United Kingdom

> Renewables sales

- Wind & solar Group generation of 6.5TWh, up +28%, driven by commissioning in 2021
- Favourable price effects in Italy and in the United Kingdom
- Still limited exposure to market price linked to PPA ⁽²⁾



GROUP RENEWABLES: **PROJECTS UNDER CONSTRUCTION AT 7.9GW GROSS** (WIND AND SOLAR) AT END-MARCH 2022, REMAINS AT A HIGH LEVEL VS. END 2021

(1) Organic change at comparable scope, exchange rates and standards.

(2) Power purchase agreements.

		France – Generation and supply	Consolidated sales	Operational data and markets	
	2				

ENE	RGY	SERV	ICES

DALKIA									
In €m	Q1 2021	Q1 2022	$\Delta \%$	Δ %Org. ⁽¹⁾					
Sales	1,350	1,992	+47.6	+49.6					

- Strong increase in gas price (with potential negative impact on EBITDA due to extreme market conditions)
- Favourable impact of commercial activity in France and in the United Kingdom

	GROUP ENERG	ST SERVICES	,	
In €m	Q1 2021	Q1 2022	Δ %	Δ %Org. ⁽¹⁾
Sales	1,720	2,474	+43.8	+46.9

> Dalkia and Edison: strong increase in gas prices



PROJECT OF INDUSTRIAL DECARBONISATION WITH ARKEMA IN LANNEMEZAN CITY IN THE FRAMEWORK OF "FRANCE RELANCE"

(1) Organic change at comparable scope, exchange rates and standards.



CONTRACT SIGNATURE OF **ENERGY PERFORMANCE** IN UK IN SEVERAL HOSPITALS

(2) The Group energy services include Dalkia, Dalkia Electrotechnics (formerly Citelum), IZI Confort, SOWEE, IZI Solutions, IZI Solutions Renov, Izivia, EDEV, EDF China Holding, EDF Pulse Incubation and the service businesses of EDF Energy, Edison, Luminus and EDF SA. They consist in particular of street lighting, heating networks, decentralised low-carbon generation based on local resources, energy consumption management and electric mobility.

ales ⁽²⁾ Iles EDF Group contribution	728	738	+1.4	1 1
ales EDF Group contribution				-4.4
Deliveries in Q1 2021 of fuel assemblies that in in Q1 2022 Higher sales volumes for Installed Base busine	nclude UO ₂ fuel (limited impac ess in North America	ct on EBITDA), with no equiva	alent	WINNING PROJEC OF THE "FRANCE RELANCE": "CENTRE CALCUL BOURGOGNE": EXPERTISE AND TRAINING CENTRE DEDICATED TO MECHANICAL



trategy and ivestments	Renewables	France – Generation and supply	Consolidated sales	Operational data and markets

OTHER INTERNATIONAL

In €m	Q1 2021	Q1 2022	Δ	Δ Org. ⁽¹⁾
Sales	693	1,497	x2	x1.9
o/w Belgium ⁽²⁾	512	1,243	x2.4	x2
o/w Brazil	139	185	+33.1%	+20.9%

> Belgium ⁽²⁾

- Increase in power and gas sales due to market price rise (low output leads to energy purchases at high prices with negative EBITDA impact)
- Positive volume effect in B2B segment for power and gas (with limited EBITDA impact)
- Improvement in ancillary services linked to more thermal capacity sales

Brazil

- Increase in November 2021 of the tariff for electricity sales (PPA) for EDF Norte Fluminense
- Favourable forex movements (Euro depreciation versus BRL)

(1) Organic change at comparable scope, standards and exchange rates.

(2) Luminus and EDF Belgium.



(3) Net capacity at Luminus scope vs 593MW at end-2021. 662MW in gross capacity vs 658MW at end-2021.

NET WIND INSTALLED CAPACITY 597MW ⁽³⁾

2022 Q1 HIGHLIGHTS & SALES **OPERATIONAL DATA & MARKETS**



INSTALLED CAPACITY AS OF 31 MARCH 2022

(in GW)	Total net capacities of E including shares in ass joint ventures	DF Group, ociates and	Investments in associates and joint ventures	Consolidated ca of EDF Gro	pacities up
Nuclear ⁽¹⁾	68.7	56%	-0.4	69.1	59%
Hydro ⁽²⁾	22.6	18%	1.1	21.5	19%
ENR	12.2	10%	3.0	9.2	8%
Gas	11.0	9%	0.3	10.7	9%
Fuel oil	3.7	3%	0.2	3.5	3%
Coal	4.2	3%	2.0	2.2	2%
Total	122.4	100%	6.2	116.2	100%

86% of installed consolidated capacities of the Group are low carbon. In 2021, nearly 94% of Group investments were made in accordance with the Group's net zero trajectory. EDF will continue to decarbonise its capex in the future. Notably, for the period 2022-2025, the more than €15bn capex per year on average will be split between 50% nuclear, 15% renewables and 35% others mainly corresponding to networks ⁽³⁾

NB: The values correspond to the expression to the first decimal or integer closest to the sum of the precise values, taking into account rounding

(1) Taking into consideration the shutdown of Hunterston nuclear power plant in the UK

(2) Including sea energy: 0.24GW

(3) This split is based on targets. Although management believes that this split is reasonable, investors are cautioned that such data is subject to numerous risks and uncertainties that could cause actual results and developments to differ materially from those expressed herein

Strategy and France – Generation and Consolidated sales Operational data a supply	Strategy and investments	Renewables	France – Generation and supply	Consolidated sales	Operational data and n
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ELECTRICITY OUTPUT

Output from fully consolidated entities

(in TWh)	Q1	2021	Q1 20	Q1 2022	
Nuclear	111.6	76%	104.8	77%	
Hydro ⁽¹⁾	14.7	10%	10.1	8%	
ENR	5.3	4%	6.7	5%	
Gas	11.9	8%	11.4	8%	
Fuel oil	1.3	1%	1.4	1%	
Coal	1.5	1%	1.0	1%	
Group	146.3	100%	135.4	100%	

NB: The values correspond to the expression to the first decimal or integer closest to the sum of the precise values, taking into account rounding.

(1) Hydro output includes tidal energy for 141 GWh in Q1 2021 and 136 GWh in Q1 2022. Hydro output after deduction of pumped volumes is 13.3. TWh in Q1 2021 and 8.2 TWh in Q1 2022

Strategy and investments			Consolidated sales	Operational data and markets

HEAT OUTPUT

Output from fully consolidated entities

(in TWh)	Q1 2	021	Q1 202	22
ENR ⁽¹⁾	1.8	18%	1.5	16%
Gas	7.7	76%	7.4	79%
Fuel oil	0.1	1%	0.1	1%
Coal	0.3	3%	0.3	3%
Others ⁽²⁾	0.3	3%	0.1	1%
Group	10.1	100%	9.3	100%

NB. The values correspond to the expression to the first decimal or integer closest to the sum of the precise values, taking into account rounding

(1) Category corresponding to installations operating with woody biomass, landfill gas, sewage incineration, sewage treatment plant gas and biogases

(2) Category combining part of the heat generation by incineration non classified as RE, gas mine and the recovery of heat and electricity from other industrial processes

			Consolidated sales	Operational data and market

RENEWABLE OUTPUT

Output from fully consolidated entities

(in TWh)	Q1 2021		Q1 2022	
Hydro ⁽¹⁾	14.7	73%	10.1	60%
Wind	4.7	23%	5.8	34%
Solar	0.4	2%	0.7	4%
Biomass	0.2	1%	0.2	1%
Total electricity Group	20.0	100%	16.8	100%
Total heat Group	1.8	100%	1.5	100%

NB: The values correspond to the expression to the first decimal or integer closest to the sum of the precise values, taking into account rounding

(1) Hydro output includes tidal energy for 141GWh in Q1 2021 and 136GWh in Q1 2022. Hydro output after deduction of pumped volumes is 13.3TWh in Q1 2021 and 8.2TWh in Q1 2022

CO₂ EMISSIONS ⁽¹⁾

CO₂ emissions from fully consolidated entities

Emissions from the heat and power		In	ln g/kWh			
generation by segment	Q1 2	2021	Q1 2	2022	Q1 2021	Q1 2022
France – Generation and supply activities	1,810	21%	1,841	23%	18	19
France – Island regulated activities (2)	750	9%	883	11%	460	513
Dalkia	2,280	26%	1,745	22%	210	188
United Kingdom	918	11%	111	1%	78	10
Italy	1,578	18%	2,101	27%	281	299
Other international	1,387	16%	1,141	15%	233	217
Group ⁽³⁾	8,730	100%	7,834	100%	56	54

NB: The values correspond to the expression to the first decimal or integer closest to the sum of the precise values, taking into account rounding

(1) Including direct CO₂ emissions, excluding life cycle analysis (LCA) of fuel and production means

(2) Power generation in ZNI: « Zones non interconnectées » corresponding to overseas departments and Corsica - (mainly island territories) and Electricité de Strasbourg (ES)

(3) Framatome contributes to 7kt CO₂ in Q1 2021 and 13kt CO₂ in Q1 2022. The direct CO₂ emissions from "Others activities" segments are not significant compared to Group total emissions

Strategy and investments	Renewables	France – Generation and supply	Consolidated sales	Operational data and markets

UNITED KINGDOM: NUCLEAR OUTPUT



							Consolidated sales	Operational data and mark
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UNITED KINGDOM: UPSTREAM / DOWNSTREAM ELECTRICITY BALANCE



GREAT BRITAIN CAPACITY AUCTION RESULTS FOR EDF ENERGY

All capacity agreements for 1 year unless otherwise stated	Clearing price £/kW/an	Nuclear	Coal	Demand-side Response (DSR)
2016 Q4 (2020/2021)	22.5 (2015/2016 prices)	All 16 units (7.9GW)	3 of 8 units (1.8GW)	N/A
2018 Q4 (2021/2022)	8.4 (2016/2017 prices)	All 16 units (7.9GW)	0 unit	5 units (32.1MW)
2020 Q3 (2022/2023)	6.4 (no indexation)	12 units (5.9GW)	0 unit	0 unit
2021 Q1 (2023/2024)	16.0 (2018/2019 prices)	8 units (4.0GW)	0 unit	4 units (21.5MW)
2021 Q1 (2024/2025)	18.0 (2019/2020 prices)	4 units (2.0GW)	0 unit	0 unit
2022 Q1 (2025/2026)	30.6 (2022 prices)	2 units (1.0GW)	0 unit	0 unit

The slide includes capacities for which agreements were awarded (de-rated capacity). For DSR this equates to bidding capacities in the context of auctions

Strategy and investments	Renewables	France – Generation and supply	Consolidated sales	Operational data and markets

EDISON: UPSTREAM/DOWNSTREAM ELECTRICITY AND GAS BALANCES



(3) Production by Edison Stoccaggio and production relating to the concession in Algeria

(1)

(2)

2022 Q1 HIGHLIGHTS & SALES

AVERAGE SPOT PRICES IN Q1 2022



In Q1 2022, spot electricity prices averaged €232.2/MWh in France for baseload basis (+€179.2/MWh vs. 2021). This increase is explained by the sharp rise in commodity prices from mid-2021 and early 2022 following the Russian-Ukrainian conflict in February. To be noted in France: nuclear output was down 7.5TWh between the two periods, hydropower generation decreased by 5.6TWh, and thermal generation increased by 1.5TWh. Solar and photovoltaic remained stable.

Market coupling helps ensure a relative convergence of prices, but this effect is nevertheless limited by the capacities available at the borders.

Average observed spot market price for Q1 2022:

- EPEXSPOT: France & Germany
- N2EX: United-Kingdom
- OMIE: Spain
- GME: Italy (Prezzo Unico Nazionale)
- APX: Netherlands
- BELPEX: Belgium

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France's export balance stood at -0.6TWh in Q1 2022 (-9.0TWh vs. Q1 2021): exports were down (-5.4TWh) and imports were up (+3.6TWh) compared to Q1 2021. In Q1 2022, France was a net importer from the CWE zone (9.3TWh), whereas it continued to be a net exporter on most of its other borders, as in Q1 2021. Exports decreased significantly to Great Britain and the CWE zone (-3.0 and -2.3TWh respectively).

						Consolidated sales		Operational data and markets
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FRENCH POWER TRADE BALANCES AT ITS BORDERS

		Q1 20	21		Q1 2022				
(In TWh ⁽¹⁾)		January	February	March	Total	January	February	March	Total
	exports	1.7	1.9	2.0	5.6	0.9	0.9	0.8	2.6
United Kingdom	imports	0.3	0.5	0.5	1.3	0.9	0.6	0.8	2.3
	balance	1.4	1.4	1.5	4.2	0.1	0.2	0.0	0.3
	exports	1.3	0.2	1.0	2.6	0.6	1.3	0.7	2.6
Spain	imports	0.8	1.4	0.8	3.0	1.3	0.3	1.0	2.4
	balance	0.6	-1.2	0.2	-0.4	-0.5	1.0	-0.3	0.2
	exports	1.1	1.6	1.4	4.2	1.2	1.8	1.2	4.2
Italy	imports	0.2	0.0	0.0	0.2	0.2	0.0	0.1	0.3
	balance	1.0	1.5	1.4	3.9	1.0	1.7	1.1	3.8
	exports	1.8	1.7	1.9	5.4	1.8	1.8	1.6	5.2
Switzerland	imports	0.6	0.2	0.3	1.1	0.4	0.1	0.4	0.9
	balance	1.3	1.5	1.5	4.3	1.4	1.7	1.2	4.3
	exports	0.8	1.4	1.0	3.1	0.3	0.2	0.3	0.9
CWE ⁽²⁾	imports	3.0	1.4	2.4	6.9	3.4	3.2	3.6	10.1
	balance	-2.2	0.0	-1.5	-3.7	-3.1	-2.9	-3.2	-9.3
	exports	6.7	6.9	7.3	20.9	4.8	6.1	4.6	15.5
TOTAL	imports	4.8	3.6	4.1	12.5	6.0	4.3	5.9	16.1
	balance	1.9	3.3	3.1	8.3	-1.2	1.8	-1.2	-0.6

Source: RTE

2022 Q1 HIGHLIGHTS & SALES

(1) Rounded to the nearest tenth

(2) CWE flow-based coupling zone composed of Germany, Belgium, France, Luxembourg and Netherlands, set up in May 2015

FORWARD ELECTRICITY PRICES IN FRANCE, THE UK AND ITALY (Y+1) FROM 01/04/2020 TO 31/03/2022



	Renewables	France – Generation and supply	Consolidated sales	Operational data and markets

FORWARD ELECTRICITY PRICES IN FRANCE, THE UK AND ITALY (Y+2) FROM 01/04/2020 TO 31/03/2022

n €/MWh)	Electricité - Contrat Annuel Base France (EEX)	Electricity - Annual Baseload Contract UK (EDF Trading)	Electricity - Annual Baseload Contract Italy (EDF Trading)
190			
170			Λ.
150			
130			
110			An of the second
90			
70			
50			
30 Apr-20 Ma	ay-20 Jun-20 Jul-20 Aug-20 Sep-20 Oct-20 Nov-20) Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-2	1 Aug-21 Sep-21 Oct-21 Nov-21 Dec-21 Jan-22 Feb-22 Mar-22
	2022 Q1 HIGHLIGHTS & SALES		

		France – Generation and supply	Consolidated sales	Operational data and markets

FRANCE/GERMANY SPREAD FROM 01/04/2020 TO 31/03/2022

(Daily spread in €/MWh)



In Q1 2022, spot electricity prices averaged \leq 232.2/MWh on a base load basis (+ \leq 179.2/MWh vs. Q1 2021). This increase can be explained by the sharp rise in commodity prices mid-2021, and in early 2022 due to the Russian-Ukrainian conflict starting in February, whereas consumption was down in Q1 (-4.3TWh) in line with milder temperatures at the beginning of 2022 (+0.5°C). Nuclear output was down 7.5TWh between the two periods, affected by the analysis of the observed pipe corrosion, a 1.5TWh increase in thermal generation, and stable solar and photovoltaic generation between the two periods

CODE SALES FIRST QUARTER 2022

In Q1 2022, spot electricity prices averaged €261.5/MWh on a peak load basis (+€198.5/MWh vs. Q1 2021). As with the base load prices, this increase is explained by the sharp rise in the price of commodities and tension on the gas market due to fears that gas flows between Russia and Europe would be interrupted.

COAL PRICES (Y+1) FROM 01/04/2020 TO 31/03/2022

The price of coal for delivery in Europe in Y+1 averaged \$141.7/t in Q1 2022 (+105.3% or +72.7/t vs. Q1 2021). Several factors explain the sharp increase and volatility of the price of coal: logistical and meteorological factors, with a decrease in Russian exports observed in February following "numerous Covid cases", as well as constraints on ship traffic in the Black Sea and flooding in Australia which affected ports. Geopolitical factors also played a role, such as the declaration of force majeure for Russia's largest coal exporter Suek, following the start of the Russian-Ukrainian conflict, fears of the consequences of sanctions against Russia and the announcement of an increase in Chinese domestic production. The global health situation, such as new confinements in China observed in March, also contributed to this phenomenon.

CDF SALES FIRST QUARTER 2022

		France – Generation and supply	Consolidated sales	Operational data and markets

BRENT PRICES ⁽¹⁾ FROM 01/04/2020 TO 31/03/2022

The price of oil averaged \$97.9/bbl in Q1 2022 (+59.7% or +\$36.6/bbl vs. Q1 2021). The rise in Brent is explained by the conflict in Ukraine, which raised risks of supply disruptions, as well as the embargo decided by the USA and the UK in early March on Russian oil. the adjustment of production by the member countries of OPEPE+ made it possible to limit the increase, also fueled by the inability of certain countries to meet their production targets (Angola & Nigeria). The price of oil closed the quarter at \$107.9/bbl.

The price of the annual gas contract for delivery in N+1 on PEGs averaged ≤ 68.4 /MWh in Q1 2022 (+298.9% or + ≤ 51.3 /MWh vs. Q1 2021), continuing the increase in Q1 2022 that began in summer 2021. The volatility of gas prices is mainly explained by supply concerns in the context of the conflict in Ukraine. Germany announced on 22 February the suspension of the certification of Nord Stream 2, which was expected to be commissioned in H2 2022. Supply disruptions are feared by the market in the context of the Ukrainian conflict. The announcement of a US embargo on Russian oil and gas in March contributed to the price increase. And the European Commission's announcement wishing to impose a minimum storage level (80% on 1.11.2022 and 90% on 1.11.2023) contributed also to this increase.

The price of emission certificates for delivery in December N+1 averaged \in 84.4/t in Q1 2022, a sharp rise over Q1 2021 (+122.6% or + \in 46.5/t vs. Q1 2021). After peaking at the end of 2021, the price of CO2 in the first quarter of the year was down compared to its historical high.

April May June July August September October November December January February Marc

Temperatures in the 1st quarter of 2022 were above normal (+0.7°C). Those of the 1st quarter of 2021 had been more contrasted with some very cold episodes.

Strategy and investments	Renewables	France – Generation and supply	Consolidated sales	Operational data and markets
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FRANCE: ELECTRICITY AND GAS OUTPUT

Between 2021 and 2022, consumption in France for the first quarter was down 2.7TWh, or -1.9%. The relatively mild temperatures affected consumption negatively by around -3.8TWh. The restart of activity, after the drop due to the health crisis during in the first quarter of 2021, partly offset the decline (and probably explains most of the balance, or +1.1TWh).

Gas consumption in France for the first three months of the year was down 10.5TWh compared to the same period in 2021. This was due in particular to temperatures averaging 0.7°C above normal during the quarter (vs. +0.2°C above normal for the 1st quarter of 2021), coupled with a mild end to the winter.

(1) Data unadjusted from weather effect and 29 February, including Corsica

- (2) Source 2021-2022: RTE monthly overview March 2022: ETR + Corsica consumption
- (3) Source: energy monthly data, Service des données et études statistiques, Ministère de la Transition Écologique et Solidaire March 2022 GRT gaz and TEREGA (ex: TIGF)

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2022 Q1 HIGHLIGHTS & SALES COMPLEMENTARY BOOK