EDF

Start-up Portfolio

2022

EDF PULSE incubation
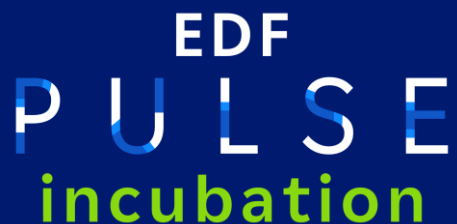
EDF PULSE INCUBATION is the EDF Group's intrapreneurship programme.

It was created to develop new businesses and accelerate the energy transition, and has enabled the launch of new subsidiaries within the EDF Group.

With EDF Pulse Incubation, the Group invests in those who have the courage to commit themselves to shaping the world of tomorrow.

EDF PULSE ventures

EDF PULSE VENTURES is the EDF Group's corporate venture capital arm.

As a financial and strategic partner of start-ups, its mission is to identify new activities and innovative solutions developed by start-ups, to invest in them and work together to build a carbon neutral future.

With EDF Pulse Ventures, the Group is linking up with the innovation ecosystem to step up the pace in the race against climate change.

eDF

**Decarbonisation
solutions
and services**
accessible to all

eDF

zenpark

ZENPARK is a leader in "**Parking as a Service".** Its platform offers motorists and motorcyclists a practical and economical hourly and monthly parking service, allowing them to park in private parking spaces left vacant (hotels, office buildings, etc.).

Zenpark enables:

- Reservation of a parking space,
- Secure access to car parks,
- Deployment of new services in parking spaces (e.g. recharging of electric vehicles).

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Status
Investment by EDF Pulse
Ventures: 2018
Founded: 2011
Employees: < 50

Markets
Local authorities, urban planners and developers of large real estate projects

Locations
France, Belgium

Offices in Paris

Customers who trust them
RATP, INDIGO…

eDF

![Urbanomy - GROUPE EDF logo]

URBANOMY is a **strategic and techno-economic consulting company in the field of carbon neutrality** for the real estate sector. It supports upstream and comprehensive thinking on responsible, low-carbon urban planning for the construction or renovation of neighbourhoods and towns and cities.

It makes 3 promises:

- MATCH: to align climate ambitions with real estate development actions,
- SHIFT: transition to low-carbon assets (heating, transport, etc.),
- UPGRADE: increase the value of real estate assets.

It is based on 5 areas of expertise that are relevant to the real estate sector: carbon, energy, value, climate change, and positive externalities.

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Status
EDF subsidiary
A product of EDF Pulse Incubation
Founded: 2020
Employees: < 10

Markets
Local authorities, land promoters, property developers and investors

Locations
Europe, UAE

Offices in Paris, London and Berlin

Customers who trust them
Caisse des dépôts, Vivatech, Syndicat Mixte Orge-Yvette-Seine, Oxfordshire County Council…

EDF

ITK is a publisher of decision support software for the agricultural sector. It designs and develops **agronomic modelling and artificial intelligence solutions for more efficient agriculture that emits less greenhouse gases.** Its technology simplifies the management of the profitability of agricultural production, its impact on the environment, and animal health and welfare.

It offers 3 products:

- Decision-making tools for crop and livestock farming,
- Forecasting and management of climatic risks,
- Farm and livestock management.

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www.itk.fr

Status
Investment by EDF Pulse Ventures 2021
Founded: 2003
Employees: 100

Markets
Agricultural cooperatives and distributors

Locations
Europe, United States, Asia

Offices in Montpellier, Rennes and San Francisco

Customers who trust them
Winfield, Bayer…

EDF

PERSEFONI

PERSEFONI offers a platform that allows companies and institutional investors to **measure, analyse, plan, anticipate and make public their carbon footprint**, managing their emissions with the same rigour as their financial transactions.

Its solution complies with the methods of the Greenhouse Gas Protocol and the Low Carbon Financial Accounting Partnership.

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Status
Investment by EDF Pulse Ventures 2021
Founded: 2020
Employees: < 200

Markets
Financial institutions, companies of all sizes

Locations
Europe, United States, Asia

Offices in Tempe (USA)

Customers who trust them
Bain & Company, SMBC, Workato, Douglas Elliman, CGI…

eDF

perfesco
GROUPE EDF

PERFESCO offers a solution that enables industrial companies to reduce their carbon footprint and energy consumption. To this end, the start-up **finances the energy efficiency projects** of its customers, who thus do not have to finance anything. PERFESCO is then reimbursed from the energy savings achieved and measured.

PERFESCO carries out an audit of the sites and identifies the energy saving areas. The company then finances and carries out the work involved.

PERFESCO works on several areas of expertise: lighting, electric motors and furnace heating. In addition, the start-up finances specific projects in some cases.

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Status
EDF subsidiary
A product of EDF Pulse Incubation
Founded: 2014
Employees: < 20

Markets
Major industrial customers and large tertiary buildings

Locations
France

Offices in Paris

Customers who trust them
General Electric, Air France, Toyota, SKF…

EDF

MONKEY FACTORY is a **provider of MaaS (Mobility As A Service) solutions**. It designed **MyBus**, France's leading mobile application (in terms of territorial coverage) providing easy access to public transport, soft mobility (bicycles, scooters, etc.) and/or shared transport. This platform is also distributed on a white label basis to local authorities via the **MaaSify**application.

The two platforms provide:

- Real-time passenger information,
- Route calculation,
- Purchase, validation and reservation of multimodal journeys.

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Status
Investment by EDF Pulse Ventures 2019
Founded: 2016
Employees: < 50

Markets
Local authorities (cities, metropolitan areas, departments and regions), transport networks, users

Locations
France

Offices in Puy-en-Velay (France)

Customers who trust them
Epinal, Mulhouse Alsace Agglomération…

EDF

NEOT develops **financing solutions** via two investment platforms:

- **NEoT Off Grid Africa** for the financing of decentralised (off-grid) energy in Africa,
- **NEoT Green Mobility** for financing zero-emission mobility solutions for clean and quiet towns and cities.

The offering includes:

- Asset-based financing,
- Project finance,
- Pilot financing,
- Financing of an international deployment.

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www.neotcapital.com

Status
Investment by EDF Pulse Ventures 2016
Founded: 2016
Employees: < 20

Markets
Local authorities, industrial companies, transport operators and start-ups

Locations
Europe, Africa, Latin America

Offices in Paris

Customers who trust them
RedBus, RATP Dev, FirstBus, Transdev, Izivia, Chronopost…

Performance, construction and conversion
of energy production and storage facilities

PowerUp
Manage & extend batteries life

PowerUp designs and markets **management and optimisation solutions for Lithium-Ion batteries** in order to extend their service life.

Its offer enables:

- Monitoring and prediction of the state of health of a battery,
- Optimisation of recharging to increase battery life,
- Supervision of a fleet of batteries and carrying out predictive maintenance..

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www.powerup-technology.com

Status
Investment by EDF Pulse Ventures: 2020
Founded: 2017
Employees: < 30

Markets
Lithium-ion battery managers and operators, particularly in the fields of massive energy storage systems, electric mobility, emergency power.

Locations
France

Offices in Aulnay-sous-Bois (France)

Customers who trust them
Crédit Agricole, Schneider Electric, Enedis, Lumila, SNCF…

EDF

enerbrain®
For an intelligent use of energy

ERNERBRAIN is developing a **digital solution for optimising energy efficiency and indoor air quality** in commercial buildings. Using wireless sensors (IoT), it measures energy consumption in real time and remotely controls the heating, ventilation and air conditioning systems. The solution can also control temperature, humidity and CO_2 levels. The information collected is processed by a "learning" algorithm (AI) developed by Enerbrain to optimise consumption in real time.

ENERBRAIN's offering includes:

- Temperature, humidity and CO_2 measurement,
- Remote control of installations,
- Optimization through AI.

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Status
Investment by EDF Pulse Ventures: 2021
Founded: 2015
Employees: < 50

Markets
Tertiary buildings, schools, shopping centres

Locations
Europe, UAE

Offices in Turin

Customers who trust them
Edison, Hôpital Sainte-Anne, Dalkia…

EDF

metroscope

METROSCOPE provides **SaaS software capable of reliably and automatically diagnosing anomalies on an industrial process.** This enables it to optimise the maintenance of installations, improve the operational performance of the business and its environmental footprint.

Its offering is based on:

- The creation of a digital model of the thermodynamic process to reveal anomalies in installations in real time,
- The use of artificial intelligence (AI) to diagnose the causes of anomalies and rank them in order of importance.

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Status
EDF subsidiary
A product of EDF Pulse
Incubation
Founded: 2018
Employees: < 35

Markets
Nuclear and thermal energy plants, industrial heat/cold production, diesel engines, data centres

Locations
Europe, United States

Offices in Paris and Berlin

Customers who trust them
Microsoft, French nuclear fleet, Electrabel...

EDF

![seclab -cybersecurity-]

SECLAB offers a **cyber security hardware solution for critical infrastructures** based on the unique *Electronic AirGap* technology that provides security by physically isolating communications between OT & IT networks.

It was voted *Cool Vendor* 2021 by Gartner.

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www.seclab-security.com

Status
Investment by EDF Pulse
Ventures: 2021
Founded: 2016
Employees: < 20

Markets
Companies with installations regarded as critical (electricity and gas networks, transport networks, chemical and oil industries)

Locations
France

Offices in Montpellier

Customers who trust them
Airbus, SNCF rail network, EDF, Ministry of Economy and Finance, Naval Group...

eDF

TEEPTRAK offers a solution for **monitoring industrial performance in real time**, enabling the acquisition of data relating to the performance of production resources (rate of production, operating time and downtime, TRS) and to analyse them in order to improve their productivity and output.
Its highly competitive plug&play solution is compatible with all types of machines.

Its service includes:

- Data capture module,
- Control tablet,
- Web supervision and monitoring platform (sold as an Saas subscription).

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www.teeptrak.com

Status
Investment by EDF Pulse Ventures: 2020
Founded: 2014
Employees: < 30

Markets
Companies of all sizes (SME, mid-caps, large groups)

Locations
Europe, United States, Asia

Offices in Paris

Customers who trust them
PSA, Hutchinson, Savencia, Electrolux, Alstom…

EDF

Decarbonised
**production and
storage solutions**
of tomorrow

eDF

![hynamics GROUPE eDF logo]

HYNAMICS produces and markets low-carbon hydrogen produced from water electrolysis, a technology that does not emit CO2 when the electricity is itself generated by decarbonised production methods.

As part of a partnership approach, HYNAMICS supports the customer throughout the value chain with a turnkey solution:

- Project design,
- Financing/investment in infrastructure,
- Construction,
- Operation & maintenance.

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Status
EDF subsidiary
A product of EDF Pulse Incubation
Founded: 2019
Employees: < 40

Markets
Industry (refineries, chemicals, metallurgy, etc.), public and professional heavy mobility (trucks, river transport, trains, buses, etc.)

Locations
Europe, United States, Asia

Offices in Neuilly-sur-Seine (France)

Customers who trust them
The Auxerre agglomeration, Heide, Interreg...

EDF

MCPHY is a **designer, manufacturer and installer of equipment for hydrogen production (electrolysers) and distribution (stations).**

Its activities:

- Supply of industrial materials,
- Recharging of fuel cell electric vehicles,
- Storage and recovery of surplus electricity from renewable sources.

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Status
Investment by EDF Pulse
Ventures: 2018
Founded: 2008
Employees: < 200

Markets
Industry, energy and mobility sectors

Locations
Europe

Offices in La Motte-Fanjas (France)

Customers who trust them
Audi, Continental, Engie, Grdf, Total, Hynamics…

Decentralised
energy
systems

dreev
GROUPE eDF

DREEV develops and markets bidirectional **smart charging solutions**: Vehicle-to-Grid (V2G) technology. V2G allows electric vehicles to be used as a means of energy storage and to feed electricity back into the grid at peak times.

It offers 3 products:

• Consulting,
• Sale of V2G charging stations,
• Operation of V2G terminals.

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Status
Joint venture between EDF and NUVVE (USA)
Founded: 2019
Employees: < 20

Markets
Local authorities and companies, and their fleets of electric vehicles

Locations
Europe, United States

Offices in Paris

Customers who trust them
Nissan, Occitanie Region, Enedis, Bordeaux Metropolitan Area...

EDF

ENERGY2MARKET is one of the largest **aggregators and traders of renewable energy in Germany.** Through its own virtual power plant (VPP), e2m aggregates several thousand decentralised renewable energy production, electricity storage and flexibility assets which it monitors, controls and connects to the electricity markets.

E2M services include:

- Enhancing the market value of renewable energy production,
- Marketing and management of flexibility.

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www.e2m.energy/en

Status
Investment by EDF Pulse
Ventures: 2019
Founded: 2009
Employees: < 90

Markets
Renewable electricity producers (wind, solar...) and electricity consumers (industry, business...)

Locations
Germany

Offices in Leipzig

Customers who trust them
Green Energy 3000, BMW Group, Enel, BTB, GDGE…

eDF

AGREGIO GROUPE EDF

AGREGIO is an **energy aggregator.** Its connected virtual power plant manages its clients' energy production, consumption and storage facilities in real time to optimise them and react to changes in market prices, changes in availability and weather forecasts.
It thus provides renewable electricity producers customised solutions to optimise and sell their production on the markets, while securing their income over the long term.

The subsidiary's offering also targets industrial and tertiary consumers who are willing to reduce or switch their consumption in return for payment, depending on the needs of the electricity system.

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Status
EDF subsidiary
Founded: 2017
Employees: < 20

Markets
Renewable electricity producers, electricity consumers
(businesses, industry...)

Locations
France

Offices in Paris

Customers who trust them
Bouygues Télécom, Metro France...

EDF

![store & forecast - GROUPE EDF]

EDF STORE & FORECAST develops and markets intelligent solutions for renewable energies in order to **optimise a local electricity system through energy forecasting and storage.**

It offers 4 products:

- EMS (Energy Management System) for intelligent control of local electricity networks,
- Storage solution (Storbox),
- Solution for forecasting renewable energy production and electricity consumption,
- Technical and economic analysis of storage systems.

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Status
EDF subsidiary
Founded: 2014
Employees: 50

Markets
Renewable electricity producers, industrial companies, service companies, electricity grid operators, electricity aggregators

Locations
Europe, United States, Asia

Offices in Paris

Customers who trust them
Powerflex, EDF Renewables…

EDF

Societal
trends

EDF

securkeys

SECURKEYS offers two types of service:

- **Securkeys:** a secure and anonymous service for the **safekeeping and delivery of duplicate keys** anywhere in France within an hour,

- **Securclés:** a secure digital service for **reproducing keys and badges** from a photo, for a fee of between €10 and €40 per key depending on the model.

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www.securkeys.com

Status
Investment by EDF Pulse
Ventures: 2020
Founded: 2017
Employees: < 10

Markets
B2C, insurance companies, mutuals, real estate, automotive, etc.

Locations
France

Offices in Rouen and Paris

Customers who trust them
Castorama, tobacconists, EDF, MAIF, Matmut, Bouygues...

eDF

EXAION is a specialist in **blockchain and 3D cloud.** It is a provider of 100% secure, sovereign and low-carbon Web3 infrastructures and solutions.

It has 3 offerings:

- ExaNode: setting up and deployment of Blockchain use cases on a range of protocols,
- ExaStudio: hosting of work environments for a wide range of businesses (creative, industry, etc.),
- ExaDC: creation of decentralised data centres, close to the users.

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Status
EDF subsidiary
A product of EDF Pulse Incubation
Founded: 2020
Employees: < 30

Markets
Large companies, VSEs, SMEs, start-ups, research centres, universities

Locations
Europe, North America

Offices in Paris

Customers who trust them
Lugh, Société Générale - FORGE, RATP, La Diversité du Cinéma Français, Ubisoft, Tezos, Nomadic Labs, NVIDIA…

algar

ALGAR (formerly Permettez moi de construire) offers an online service to **facilitate obtaining planning permission** for individuals and businesses who have renovation, construction or development projects requiring planning permission.

The offering includes:

• Analysis of planning regulations,
• Preparation of the application,
• Printing and sending the application to the local authorities,
• Monitoring the progress of the application via a dedicated dashboard.

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www.algar.co

Status
Investment by EDF Pulse
Ventures: 2021
Founded: 2016
Employees: 20

Markets
Individual homeowners, the building sector (house builders,...)

Locations
France

Offices in Lille

Customers who trust them
Saint-Gobain, Pano Sign Service, Propriétés-privees.com…

EDF

Archipels

ARCHIPELS certifies documents, data and information about individuals or companies on the **blockchain** to verify their authenticity. It is developing the standard for decentralised, secure and verified identity in compliance with European standards.

It offers 3 services:

- Document verification,
- Document security,
- Document certification.

herve@achipels.io
www.archipels.io

Status
Investment by EDF Pulse
Ventures: 2020
Founded: 2020
Employees: < 10

Markets
Banks, insurance companies, mutuals, public authorities

Locations
Europe

Offices in Paris

Customers who trust them
Docaposte, Vialink, Itesoft…

EDF