

ENGIE is at the forefront of the energy transition

A global energy leader...

With a purpose to accelerate the transition toward a carbonneutral economy.

With 58 B€ turnover in 2021, we take action throughout our entire value chain in our 4 core activities:

Renewable Energy

Thermal & Supply

Network

Energy solutions

2021 figures

102,000 employees

57.9 B€ revenues

100 GW installed power generation capacity

138 M€ spent on R&D

4.3 B€ growth investment

3 GW extra installed renewables capacity in 2021



...with ambitious decarbonization targets

Achieve **NET Zero Carbon** by **2045**on **all 3 scopes**

4GW of renewable hydrogen by 2030

Contribute **45Mt CO₂eq** clients decarbonization by **2030**

Achieve **80 GW**renewable capacity by **2030**



Our 4 Global Business Units work towards achieving Net Zero Carbon objective by 2045

Renewable Energy

Producing low-carbon electricity

1st In wind and solar in France

1st Independent power producer in Brazil

2 nd In the world for electricity purchases (PPA)

34,2 GW
Installed renewables capacity

KEY OBJECTIVES

+4 GW

of additional renewables capacity per year by 2025, then **+6 GW** per year from 2026 to reach **80 GW** by 2030.

Networks

Delivering affordable energy for customers, with our gas and electricity networks

St Gas infrastructure operator in Europe

Operator of biomethane production sites in France via ENGIE Bioz

250,000 km+

Of distribution network

5,600 km+

Of electricity transmission networks

KEY OBJECTIVES

4 TWh/year

of biomethane in France by 2030

Energy Solutions

Develop local and decarbonized energy networks

Cooling network operator in the world

Heating network worldwide

23 GW

of decentralized energy installed capacity

65,000+

Energy assets operated within buildings worldwide

KEY OBJECTIVES

+8 GW

of additional capacity in lowcarbon energy infrastructure by 2025

Thermal & Supply

Providing flexibility to support the development of renewable energies, supply our clients with energy

2 nd Desalination operator globally

60 GW

Installed production capacity

22 M

BtoC contracts in 5 key countries

KEY OBJECTIVES

Coal phase-out by 2027 worldwide

Portfolio growth in electricity

4 GW of renewable hydrogen production capacity for 2030



ENGIE R&I teams rely on diversified expertise at service of **ENGIE** Group



Engie Research & Innovation combines research centers & Labs, incubation programs, and venture arms to detect and accelerate deployment of new technologies in an industrial, competitive, reliable and safe way.

Our teams align interests and forge collaborations between ENGIE's operating entities, external ecosystems and stakeholders around key topics fueling the Group's future.

ENGIE R&I Expertise: A showcase of Lab Crigen

« With our 19 benches of testing facilities, ENGIE Lab CRIGEN will be able to carry out physical and virtual tests, in order to develop, optimize, de-risk and industrialize cutting-edge low carbon technologies. »

Adeline Duterque, Managing Director ENGIE Lab CRIGEN

New Ventures

RESEARCH & INNOVATION

Corporate venture arm of ENGIE taking minority investments in clean technology startups.

Factory Asia Pacific

RESEARCH & INNOVATION

Incubation arm in APAC building, scaling startups in energy efficiency, smart cities, green mobility, and renewable energy.

Four R&D Labs

Lab Crigen

RESEARCH & INNOVATION

R&D center devoted to green gases, new energy uses in cities and buildings, industry and emerging technologies.

Lab Cylergie

RESEARCH & INNOVATION

Research center dedicated to energy efficiency services and energy smart management.

Laborelec

RESEARCH & INNOVATION

Research center in electrical power technology, in the fields of generation, transmission, distribution, storage and final use.

Lab Singapore

RESEARCH & INNOVATION

R&D center focused on industrial energy efficiency, cooling systems & data center decarbonation, gas, and smart energy.



ENGIE Ventures is structured to capture and support external innovation



Fund structure - Corporate Venture Capital

Separate Legal entity

Dedicated Investment Committee

Quarterly coordination with Global business units to ensure alignment

Open Exit strategy

+200 M€ in c.50 startups

Invested since Inception

Main Investment Criteria

Seed & Series A startups

Strong industrial partnerships

Minority Investment with a Board seat

High growth expectations and game-changing technologies

€1-5M

Initial ticket size

Journey supporting deployment



Our investment terms

- Shared resources, together with a meaningful syndicate of co-investors.
- Objective of balance return on investments.

Added Value for startups

- · Access to **customers** and markets
- · Access to Group expertise.
- Access to equity capital
- Increased credibility towards customers, partners and investors



Our current portfolio is composed of 24 active investments



Current portfolio investments





















































Examples of Exits





























Our strategic priorities to lead the energy transition



- Optimizing renewable generationBring flexibility and
- Bring flexibility and dispatchability



- Decarbonization of generation assets (Carbon capture)
- H2 low carbon generation
- Green fuels
- Water desalinization solutions
 - Local Energy Communities



Bio & e-methane technologiesGas usages ENERGY SOLUTIONS

District heating and cooling solutions
 Customer
 Decarbonation



Our experienced team around the world is at the service of innovation



EUROPE



Johann Boukhors (Fund Managing Director)



Laurent Rambaud (Investment Director)



Vincent Pichon (Investment Director)



Carlos Chalbaud (Investment Director)



Alfonso Sessa (Financial Manager)



Davide Romeo Nanni (Investment Analyst)



Adama Cisse (Executive Assistant)

10+

Team members

24
Active startups



EUROPE 11 startups

ASIA & ISRAEL 3 startups

& ISRAEL



ISRAEL

Anne Baer (Sr. Advisor)

NORTH AMERICA



Scott Pinizzotto
(Sr. Investment Director)



Sheeraz Haji (Sr. Advisor)

Enquiries should be addressed to: newventures@engie.com

For the latest updates from Engie Ventures, follow us on:









Appendix



Our strategic priorities to lead the energy transition



Renewable Energy



- EMS to optimize flexibility and dispatchability of assets
- Technologies to optimize large scale solar bids and O&M
- Optimize offshore and onshore wind energy
- Agri-PV

Network



- Liquefaction technologies for bio & emethane technologies
- · Biomethane technologies
- Competitive e-methane production
- Gas usages (hybrid heat pump, etc.)
- Methane pyrolysis

Thermal



- CCUS technologies (Greening thermal fleet with CCS)
- Green fuels
- Hybridization of thermal generation large scale storage solutions
- · Water desalination technologies

Energy solutions



- DHC decarbonation solutions
- Data centres, industries and tertiary buildings decarbonation
- Low-carbon mobility (HRS, EV infrastructure)
- · On-site utility generation
- Energy efficiency as a business model
- Competitive distributed PV and O&M

Low-Carbon H2



- Low Carbon H2 production (centralized & distributed)
- H2 transport & storage (large scale)

Energy Mgmt & Sales



- · Access to Carbon Credits
- Low carbon gases
- Supply power 24/7

Supply



- Local energy communities
- Customer decarbonation (self consumption and flexibility)



ENGIE Ventures Current Portfolio







Solar management platform

Location: Sommerville, USA

Founded Year: 2015

Web site: https://raptormaps.com/



Raptor Maps

Developer of a lifecycle management platform designed to increase performance, reduce costs and standardize solar photovoltaic assets across a portfolio. The company's platform assists teams to convert drone and asset data into accurate, high-value system analytics.



Location: Fos-sur-Mer. France

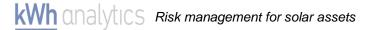
Founded Year: 2022

Web site: https://gravithy.eu/



Gravit'Hy

GravitHy is a sustainable iron and steel company, with its first plant located in Fos-sur-Mer. GravitHy will address the growing demand for green iron and steel. It will support in easing emissions from the steel industry by generating and using green and low-carbon hydrogen to produce DRI



Location: San Francisco, USA

Founded Year: 2012

Web site: https://www.kwhanalytics.com/



kWh analytics

The company's platform helps solar investors to deploy more capital intelligently by providing data integration, analytics and performance benchmarking for their solar investments, enabling them to minimize risk and increase equity returns.



C ZERO Natural Gas decarbonizing Technology

Location: Santa Barbara, USA

Founded Year: 2020

Web site: https://www.czero.energy/



C-ZERO

C-zero is developing an industrial scale and competitive, methane pyrolysis technology that splits methane into hydrogen (turquoise hydrogen) and solid carbon by moving it through a mixture of molten salts.



Cleaning robots for solar plants

Location: Santiago, Chile Founded Year: 2016

Web site: https://www.inti-tech.com/



Inti Tech

The company's technology maximizes the generation of solar panels in high radiation areas by dry smart cleaning in real plants through robots, enabling clients to generate energy easily and efficiently.



E-fuels Innovative Solution

Location: Karlsruhe. DE Founded Year: 2014

Web site: https://ineratec.de/en/home



Ineratec

INERATEC is a leading provider of innovative chemical reactor technologies for Power-to-X and Gas-to-Liquid solutions. Its technology allows the production of several products (e-fuels, syngas, e-chemicals) synthetized from low-carbon H2 and CO2.

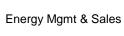




























Energy storage and heating management

Location: Grenoble, FR Founded Year: 2020

Web site: https://www.lancey.fr/



Lancey Energy Storage

Lancey's core product, The Lancey Capella, is a universal energy management solution composed of an electric radiator embedding a battery. The system, Plug &Play, uses electricity from the grid and from any local renewables.



Industrial facilities energy optimization

Location: North Carolina, USA

Founded Year: 2011

Web site: https://ndustrial.io/



Ndustrial

Ndustrial solution is a comprised of Contxt, a scalable data management platform that serves as code data engine and insight, a data integration and insights application.

Renewables

energyworx

Cloud meter data management

Location: Houten, NL Founded Year: 2012

Web site: http://www.energyworx.com



Energyworx

The company's platform leverages technology to ingest and manage huge volumes of smart meter data, IoT data, and data from any kind of data source and upon ingestion. The technology is enabling clients to accelerate the world's transition to clean energy.



Modular gas analyser

Location: Grenoble, France

Founded Year: 2014

Web site: https://apixanalytics.com/



<u>Apix</u>

Energy Mgmt & Sales

APIX Analytics develops highly miniaturized multigas analyzers for traditional analytical chains: sampling, injection of gases, separation of complex gas mixtures. Apix's products enhance specificity, detection, quantification of each mixture identification and compound.



Field work management software

Location: Santiago, Chile Founded Year: 2017

Web site: https://tutenlabs.com/



TutenLabs

software digitize, The company's optimize standardize services. providina visibility and transparency, standardizes the work and gives traceability, enabling businesses to accelerate the reaction and response speed of the entire operational chain.



Location: Labège, FR Founded Year: 2009

Web site: https://www.sigfox.com/en



Sigfox

The company's software-based communications technology offers a platform where all the network and computing complexity is managed in the cloud, enabling clients to avail the lowest energy-consumption device-tocloud connectivity.





























Renewable energy PPA marketplace

Location: Seattle, USA Founded Year: 2016

Web site: https://www.leveltenenergy.com/



Levelten

Level 10 developed a renewable energy transaction platform designed to connect power buyers to the universe of power purchase agreements from utilityscale wind, solar and storage projects



Household Biogas digester system

Location: Beit Yanai, Israel Founded Year: 2012

Web site: https://www.homebiogas.com/



Homebiogas

Homebiogas Ltd is the world leader in developing groundbreaking and simple to use biogas systems, enabling people around the globe to turn their organic waste into self-made clean energy.



S A M P Digital twin for industrial asset management

Location: France Founded Year: 2020 Web site: https://samp.ai/



SAMP

SAMP offers an asset management platform to industrial customers. The software uses 3D scans to build precise. easy to update and flexible digital twins of industrial facilities. The solution makes any intervention on site more cost effective and time efficient.

REDAPTIVE Efficiency-as-a-service for building

Location: San Francisco, USA

Founded Year: 2014

Web site: https://redaptive.com/



Redaptive

Redaptive manages the building upgrade, covers all costs, and bills the customer for the actual metered saving after the project completion. Redaptive's offering leverages data to unlock cash flows, and the company focuses on enterprise customers with large portfolios of sites.



Organic solar films

Location: Dresden. DE Founded Year: 2006

Web site: https://www.heliatek.com/de/



Heliatek

With a patented technology and unique roll-to-roll production process. Heliatek is the world's first series producer of organic solar films, which open up new possibilities for generating clean electricity, enabling a world of independent energy-supplied buildings.

unabiz IoT solutions

Location: Singapore Founded Year: 2016

Web site: https://www.unabiz.com/



Unabiz

UnaBiz manages two IoT-dedicated networks in Singapore and Taiwan and offers energy-efficient, highly scalable, and simple to deploy solutions. Today, it provides a diversified range of expertise from product design to manufacturing.



























On-site hydrogen production

Location: Derio, Spain Founded Year: 2019

Web site: https://www.h2site.eu/fr/



H2Site

H2Site's mission is to produce the most cost efficient, on site, renewable H2 for industry and mobility using feedstock versatile membrane reactors, enabling clients to have a on-site technology for production, transportation and storage of hydrogen.



QOQOIO. Electric scooters and battery swapping

Location: Taoyuan, TW Founded Year: 2011

Web site: https://www.gogoro.com/



Gogoro

The company offers electric scooters that utilize rechargeable smart batteries, along with a dedicated application that shows where customers can exchange and recharge their batteries and also operates charging stations, enabling people to commute in a cleaner way and reduce pollution.



Energy management services

Location: Santiago, Chile Founded Year: 2016

Web site: https://wenuwork.cl/



WenuWork

The company's services utilize the internet of things and a private web platform to provide easy-to-understand information regarding the energy efficiency project, realtime information regarding energy consumption and diagnostic report on energy consumption.



Online sustainable store

Location: Santiago, Chile Founded Year: 2016 Web site: https://denda.cl/



Denda

The company's platform offer innovative and useful products for recycling and composting and a wide range of energy saving services aiming to reduce the carbon footprint providing a sustainable life and also provides online payment system and with home delivery or retirement options.



Second life EV batteries

Location: New Castle, UK Founded Year: 2014

Web site: http://www.c-e-int.com/



Connected Energy

The company's technology provides the same performance as equivalent first life batteries but at a lower cost and in an environmentally friendly manner and it is designed for industrial and commercial behind the meter applications.



Smart video notes

Location: London, UK Founded Year: 2013

Web site: https://vyntelligence.com/



Vvntelligence

Vyntelligence business focus on data capture through smart video. Vvn smart video technology is deployed to help industrial companies gain visibility and insights over the assets and operations, by empowering filed worker to create smart videos reports directly on site.























