



Image courtesy of Robbert Frank Hagens,
TBB Photo Contest



Oportunidades de financiación a la colaboración internacional en I+D+i – ENERGIA
InnoEnergy: inversión y aceleración de empresas innovadoras en energía sostenible

Zamudio - 30/01/2023



- **Who we are**
- **What we do**
- **Examples of past investments**

InnoEnergy: A European Company with first rank shareholders



Industry

Naturgy

RAFAKO

ENGIE

KOOLEN INDUSTRIES
Clean energy for everyone

EDF

TotalEnergies

Schneider Electric

IDEC GROUPE

VW

Capgemini

SIEMENS

Siplec
E.Leclerc

Academia

KTH
KTH
TEKNSKAP
OCH KONST

AGH

cea

TÉCNICO LISBOA

TU/e
EINDHOVEN
UNIVERSITY OF
TECHNOLOGY

vito
vision on technology

KIT
Karlsruher Institut für Technologie

KU LEUVEN

Silesian University of Technology

Wrocław University of Science and Technology

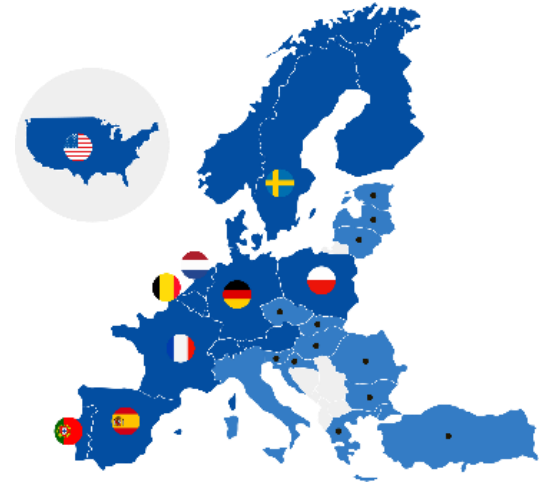
Grenoble INP

Universität Stuttgart

UPPSALA UNIVERSITET

esade
UNIVERSITAT RAMON LLULL

UNIVERSITAT POLITÈCNICA DE CATALUNYA BARCELONATECH
UPC



Finance

AUGUR CAPITAL GROUP

ING

Creating & Supporting innovative companies

Volume

7,000+

START-UPS SCREENED

300+

PRODUCTS LAUNCHED

500+

COMPANIES SUPPORTED

200

2022 PORTFOLIO COMPANIES

Performance

€7.3B

RAISED IN FUNDS

85%

EXPORTING

17%

LOSS RATIO

269

PATENTS FILED

1.1GtCO²

EQUIVALENT CO2 SAVED BY 2030



3

UNICORNS



6

CENTAURS



47

PONIES

Impact KPI's from portfolio companies



Economic*



24,930

JOBS CREATED
(DIRECT AND INDIRECT)



€306M

ACTUAL REVENUE
GENERATED BY
PORTFOLIO COMPANIES

€72.8B

ESTIMATED REVENUE
FOR 2030 — MORE
THAN THE GDP OF
LUXEMBOURG IN 2019



€3.4B

OF EXTERNAL FUNDS
RAISED BY PORTFOLIO
COMPANIES

*Realised until 2020

Social*



727

FEMALE
ENTREPRENEURS



84

NATIONALITIES
AVERAGE OF 3.56 NATIONALITIES
PER COMPANY



346k

HOUSEHOLDS WITH ACCESS
TO ENERGY IN DEVELOPING
COUNTRIES**

1.3M+

EQUIVALENT TO 1.3
MILLION PEOPLE WITH
ACCESS TO ENERGY

*Realised until 2020

Environmental**



1.1^GtCO₂

EQUIVALENT
CO₂ SAVED



245.5M

EQUIVALENT TO CARS
OFF THE ROAD



€9.1B

OF SAVINGS IN ENERGY COSTS



616^{TWh}

GENERATED FROM CLEAN
ENERGY SOURCES

1^B

EQUIVALENT TO THE
CONSUMPTION OF MORE
THAN ONE BILLION
BARRELS OF OIL

**Potential contribution:
Annually estimated by 2030

sooner, bigger and safer (=de-risking)

InnoEnergy: A worldwide leading early-stage investor in Cleantech

Top early-stage VC EV & grid technology investors since 2015

Investor	Investment count*
EIT InnoEnergy	13
Breakthrough Energy Ventures	12
Climate Capital	12
Kleiner Perkins	9
Prelude Ventures	9

Source: PitchBook | Geography: Global
*As of November 25, 2021



Global Top VC Firms and Impact Investors

- Breakthrough Energy Ventures
- EIT InnoEnergy**
- Climate Capital
- IDG Capital
- Lowercarbon Capital
- Alumni Ventures Group
- GGV Capital
- Clean Energy Ventures
- Congruent Ventures
- Prelude Ventures

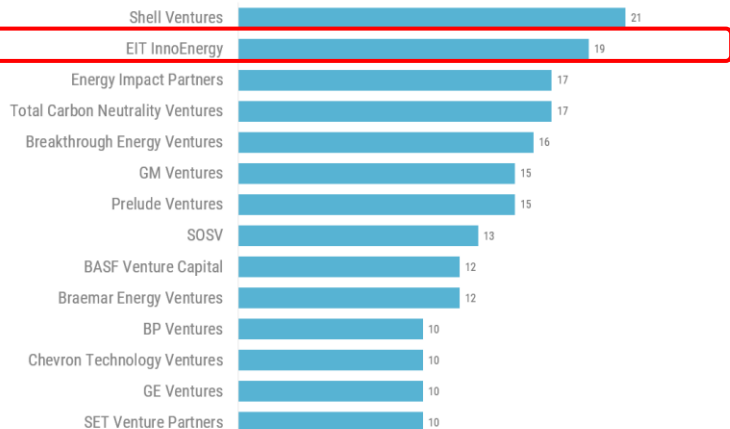
Top VC Investors By Region



Top Ecosystem Players were determined primarily by number and amount of Series A investments in Cleantech from 2018 to September 2021.

Top investors in renewable energy tech

By unique deals, 2016 – 2020 YTD (12/8/20)



Source: cbinsights.com



PROFILES SOLUTIONS DATA NEWS ANALYSIS ABOUT SIGN

Most active in Energy

1	EIT InnoEnergy	20
2	Breakthrough Energy Ventures	15
3	Climate Capital	13
4	Chevron Technology Ventures	11
5	Temasek Holdings	7
5	Schneider Electric	7
5	Bpifrance	7
8	Equinor Ventures	6
8	IDG Capital	6
10	Lowercarbon Capital	5



EIT InnoEnergy Overview

Investor Type: **Impact Investing** Status: **Active** Professionals: **45**

Innovations: **410** Portfolio: **262** Exits: **45**

EIT InnoEnergy General Information

Description
Founded in 2010, EIT InnoEnergy is the leading innovation engine in Sustainable Energy. With offices in Europe and the firm seeks to make equity-investments in early-stage clean-tech and through accelerators centered inside the business case (scale, income, and later licensing), investment stage, climate-tech and energy sectors.

Contact Information

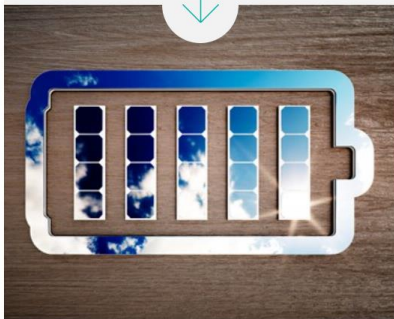
Website: www.eit-innoenergy.com
Primary Investor Type: Impact Investing
Other Investor Types: Accelerator Investor, Corporate Venture Capital

Investor Status: Active/Seeking New Investments
Primary Office: Kortrijkse Eeuwen 2, 2002 AJ Utrecht, Netherlands
Phone: +31 (0)30 251 1111





Energy storage



Sustainable buildings and cities



Renewable energies



Energy for transport and mobility



Smart electric grid



Energy efficiency



Energy for circular economy



3

INDUSTRY VALUE CHAINS

- European Battery Alliance (EBA)
- European Green Hydrogen Acceleration Centre (EGHAC)
- European Solar PV Industrial Alliance (ESIA)

€390B

ANNUAL MARKET VALUE IN 2025

7M+

NEW TOTAL JOBS

Strategic industrial value chains boosted by , creating green growth, jobs and competitiveness

1

European Battery Alliance

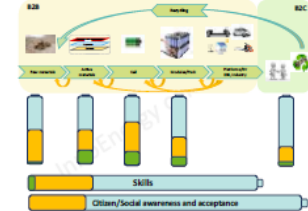
EBA harvest since October 2017 (3/4)
Industrial projects all across the value chain in 22 countries



Industrial projects all across Europe, creating jobs and growth

Still work to do and gaps to fill (1/2)
Accelerated EBA at the heart of the EU recovery, jobs and growth

Gap between existing + committed and needed capacity per year



Resilience building up, yet more speed needed

1. Battery regulation
2. Battery Academy
3. Gap to fill - RRF
4. Verkor

2

European Green Hydrogen Acceleration Center



European Green Hydrogen Acceleration Center (EGHAC) Complementarity with the EU Hydrogen Strategy

3

European Solar Initiative

Rebuilding PV industry in Europe (1/9)
Why NOW?

- The conditions are ripe
1. There is a stable (today etc.) EU market demand (driven by the NREPs) 2020W new next 10 years
 2. Europe is leader in new technologies that deliver better (LCOE) (i.e. Wires, Cells). We are 18 months ahead of China.
 3. Investors are signaling appetite: 2 big transactions this year (Delft - 20M, Mener Ingoo 167M)
 4. China can shortly have structural assets: CIG PERC technology
 5. China has also to own growth to serve: 100GW in coming 20 years
 6. Reasonable strong EU exemption, across all the value chain
 7. Cost of capital to close to 0
 8. Next Generation EU/Recovery Package support measures
 9. It can become also an export industry

20GW/year
40 B€
0,4M Jobs

Rebuilding PV in Europe

1. Reshoring PV manufacturing
2. 20GW new/year



What we do



- 1. Early-stage, high-potential startups within all thematic fields**
- 2. Early-stage industrial companies across strategic value chains (batteries, solar, H2)**
 - Originated by others**
 - Originated by InnoEnergy (venture-building)**

Goals

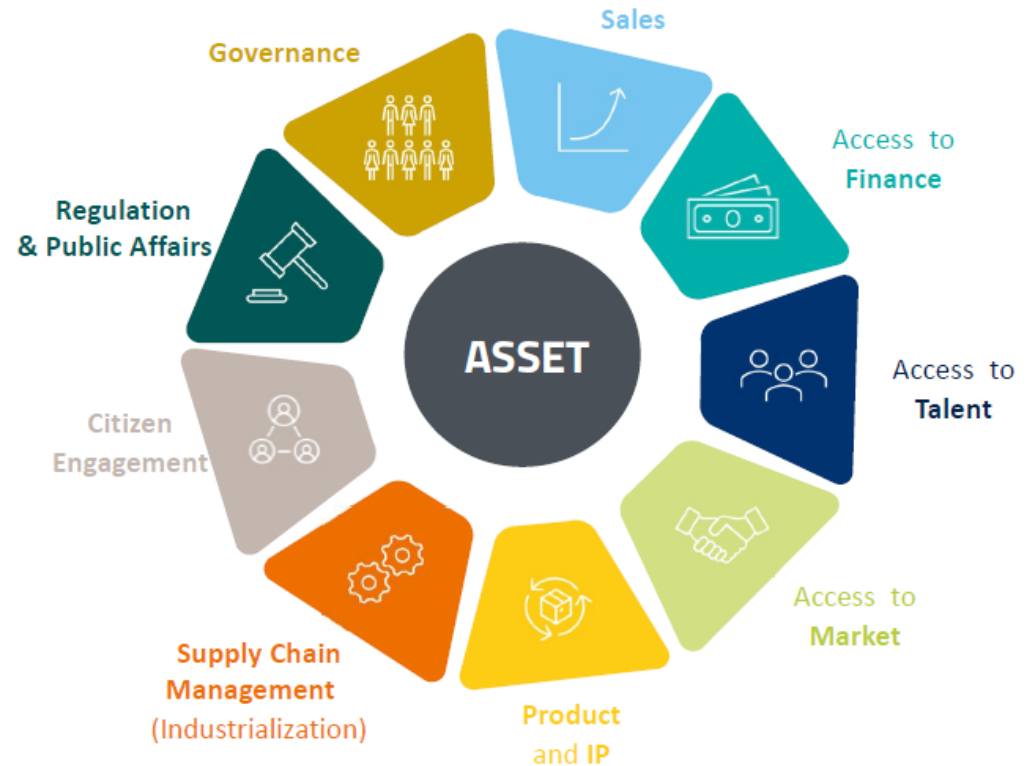
- Derisk projects for both investees and investors
- Accelerate go-to-market/ bankability (FID)
- Boost business

Deal

- Early-stage cash investment
- Added-value services provided by InnoEnergy in connection with 750 partner ecosystem



EQUITY

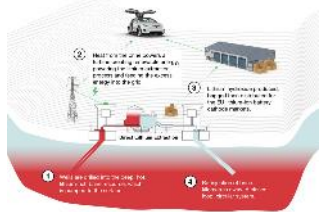




Examples of past investments

InnoEnergy Battery Raw Materials Portfolio Companies

Vulcan Energy, SW Germany
Lithium from geothermal brine,
 Zero Carbon Lithium®
 End-product: LCE, resource TBC,
 > 16MT LCE
 Start 2024



MRC Skaland, Norway
Crystalline Graphite
 underground mine
 End Product: Graphite Powder &
 Flakes, special grade
 12000tpa,
 In operation

Pure Battery Technologies, DE
Precursor Active Cathode
Materials (Ni-based)
 Start: 2023

EBA250



Cinovec, Czech Republic
Lithium mine, Cinovec
 Mica (Zinnwaldite), underground mine
 Endproduct: LiOH, 25.267 T LiOH pa.
 Start: 2024



- One of the largest lithium hard rock resources in Europe, by EIT InnoEnergy and Cinovec consortium.
- Now they are splitting the first in process with SKS Group. Process technologies similar to LMI.

INFINITY LITHIUM, Spain
Lithium Mine, San José
 Mica (Zinnwaldite),
 underground mine
 End-product: LiOH, up to
 15000tpa,
 Start 2026

Euromanganese, Czech Republic
Manganese from tailing, Chvaletice
 Processing of tailings to EMM
 (Electrolytic Manganese Metal) and
 MSM (Manganese Sulphate
 Monohydrate)



Company's Tailings Processing Plant, located in Chvaletice, is the largest in the world for processing of manganese tailings. The plant is designed to produce 100,000 tonnes of EMM and 100,000 tonnes of MSM per year.

SAVANNAH RESOURCES, Portugal
Lithium Mine, Mina do Barroso,
 Spodumene, open pit
 End-product: LCE, 26,000tpa
 Start 2023

Rock Tech Lithium, DE
Lithium Mining and Refining
 End product: Lithium
 hydroxide monohydrate
 Start: 2024

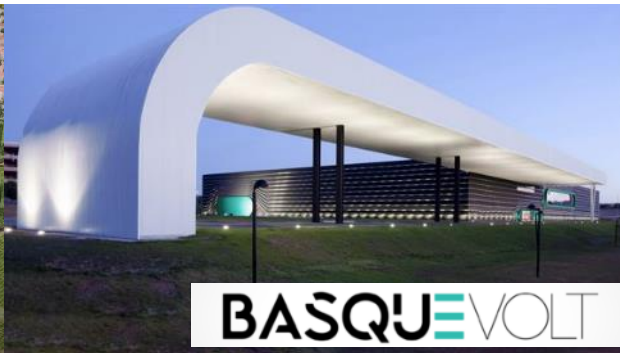


- State-of-the-Art Green Mining Technologies.
- Local Community to share in upside from the Project via 'Benefit Sharing Program'.
- Partners in EIT RawMaterials for LiBEL Project & CIRA Project.



Innovativeness in Refining Process:
 New Axinite stage that takes flow directly to LiOH
 Use of Potassium Sulfate (fertiliser) instead of Sulphuric Acid.
 Reagent Recycling (water and potassium sulfate).

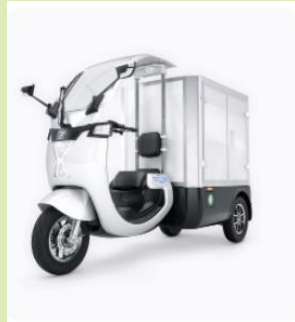
InnoEnergy Investor in 6 Gigafactory Projects



New drive train concepts



Last-mile mobility



Scoobic Light



Scoobic Mini

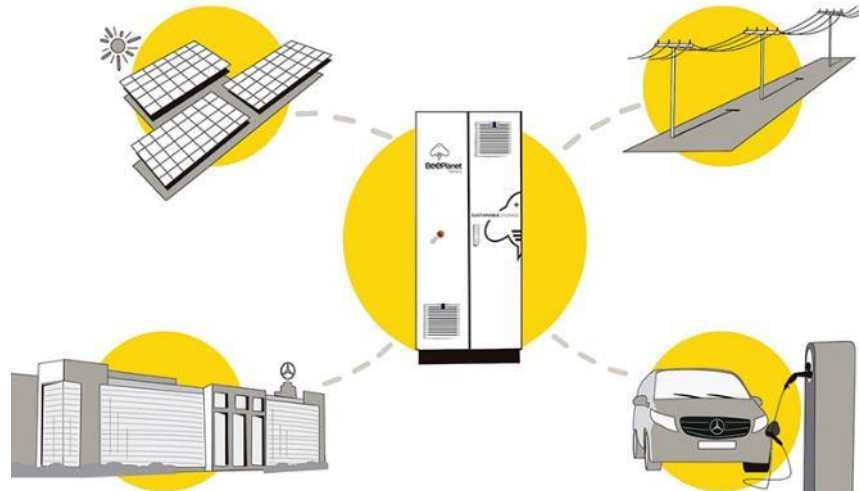


Scoobic Mouse
NEW



VS1
NEW

BEEPlanet: 2nd Life Batteries + Battery Recycling





95%

reduction in CO₂ emissions
compared to traditional
steelmaking

5

MILLION TONNES

of green steel produced annually in Boden by
2030

0.3

BILLION TONNES

of CO₂ avoided by 2040, which
is about 1% of total current
annual man-made emissions



2 million tons of Direct Reduced Iron (DRI)

- 3,000 direct and indirect jobs
- 2.2 b€ CAPEX
- SOP 2027



Independent Hydrogen Producer: 1GW+ pipeline

- Mobility
- High Temp. heat for industry



Develop large Si-Ingots Production Capacity

- Phase 1: 3.6 GW in 2024
- Phase 2: 6.0 GW in 2026



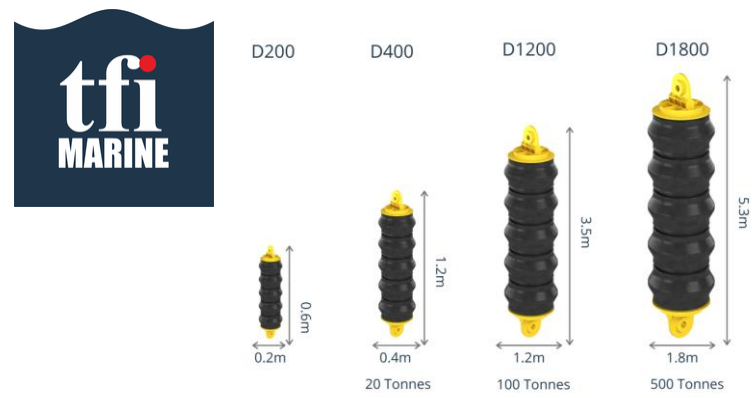
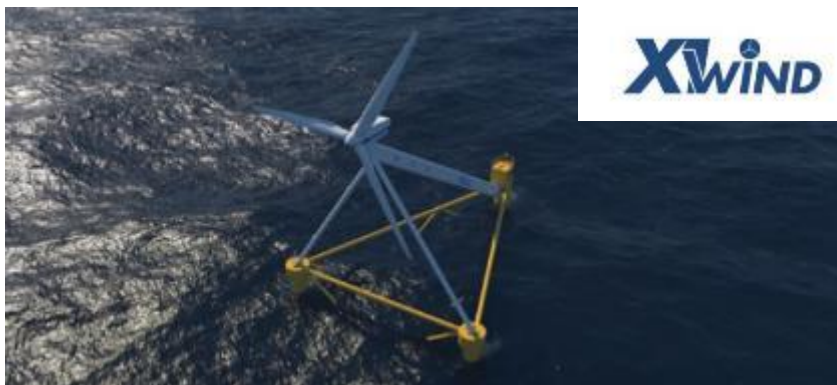
More efficient & sustainable Si-wafer production

- M6 wafer commercially available in 2022
- G12 wafer commercially available in 2023



5GW vertically integrated PV manufacturer

WIP - Announcement 2023



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