

TBB.2020 photo contest | Photo by: Sergio Izquierdo



Funded by the
European Union



EIT InnoEnergy

Impact Report 2020



**WELCOME TO
EIT INNOENERGY**

**The leading
innovation engine in
sustainable energy**



From innovation to impact an EIT InnoEnergy story



**ELENA
BOU**

Co-founder and
Innovation Director
EIT InnoEnergy

Sustainable investment is on the rise. This is impacting all angles of society – from consumers and corporates to government and regulators:

- **Society** is creating a school of thought in favour of climate action. Now, sustainability and climate change matter, especially in regions like Europe where these values are positively correlated with our humanistic culture.
- **Governments** are taking action. During 2020 we welcomed the European Commission’s announcement to increase its target for reducing carbon emissions from 40% to 55% by 2030. This accelerates Europe’s journey towards 2050 carbon neutrality. What is more, with 2050 carbon neutrality pledges by some of the world’s largest economies (US, Europe and Japan, along with many others) and China for 2060, we can state that the world has gone beyond tipping point.
- **Corporates** have started securing public commitments, while operations and organisational structures have started to evolve. The oil and gas industry is desperately searching for new ways to reinvent their business models and heavy energy consuming companies have included decarbonisation in their agendas.
- **Investors** have realised that “green is profitable”. This has been evident during the pandemic when Economic, Social and Governance (ESG) portfolios outperformed their traditional peers, or during the wave of Special Purpose Acquisition Companies (SPACs), where we saw investors looking for climate-tech assets.

– When society changes, **regulation** follows. Europe's renewed Sustainable Finance Action Plan and the EU Green Taxonomy are measures that try to create a system in accordance with not only financial principles, but also with impact and sustainability.

The wind is blowing in the right direction, but we cannot be complacent. Sustainability is in our discourse, but is it in our actions? Are consumers ready to pay a premium for sustainable products? Besides signatures and photographs, are countries taking global and unified actions? How many investors have changed their investment strategies to include impact KPIs? How many of them are really measuring impact? How much of the sustainable debate is cosmetic?

EIT InnoEnergy was born 10 years ago with a mission: to contribute to the Energy Transition by making energy affordable, secure and sustainable. Since then we have been investing and supporting companies and innovators that are here for a purpose: creating a more sustainable world. And we are delivering... **by 2030 our portfolio companies will potentially contribute to the reduction of 1.1G tCO₂ of greenhouse gas emissions and generate 616TWh of clean energy...** because it is not only about *storytelling*, it is about *storydoing!*

Our 2020 Impact Report shows part of that story.



ELENA BOU

Co-founder and Innovation Director
EIT InnoEnergy

What they say about us



**KADRI
SIMSON**

European
Commissioner
for Energy

“Innovation is an essential part of Europe’s climate and energy policy. The support that EIT InnoEnergy has given innovators in the energy sector for the last 10 years has helped these companies to reach their potential and align with the objectives of the European Green Deal. This plays an important role in reaching the EU’s sustainability and decarbonisation goals.”



**THOMAS
ÖSTROS**

Vice-President
at European
Investment Bank

“To meet our global climate and energy targets, there is a clear need for a scaling up of low carbon technologies in all areas of the economy. EIT InnoEnergy has a key role in creating a European ecosystem and supporting start-ups to bridge the gap from idea to market...”



**CYRIL
GARCIA**

Member of the
Group Executive
Committee,
General Director of
Capgemini Invent

“Our partnership with EIT InnoEnergy is a unique opportunity to create synergies through a dynamic community of start-ups and partners. We see it as our duty to make a concrete investment in EIT InnoEnergy: as a responsible organisation, we must use our expertise and advanced technologies to identify and create innovative solutions to combat climate change. We look forward to expanding the scope of innovation in the European energy sector with a range of research, solutions, projects and, of course, talent.”



**ARUNA
RAMSAMY**

Ventures Director
at OGCI Climate
Investments

“We appreciate the cooperation with EIT InnoEnergy via their network of investors and the VC Community, and look forward to further collaboration as we work together to achieve our mission of delivering carbon reduction.”



**PETER
CARLSON**

CEO of Northvolt

“We are very pleased to have the continued support of EIT InnoEnergy as we take this next step in developing our blueprint for sustainable battery manufacturing. Our partnership with EIT InnoEnergy has been vital in getting us to where we are today; not only has it provided investments, it has opened doors for us across Europe.”



**DANIEL
KAMMEN**

Lead author for
the IPCC, winner of
2007 Nobel Peace
Prize, Professor,
UC Berkeley

“Climate change requires global action and we have no time to lose. That is why the work carried out by companies like EIT InnoEnergy is so necessary. They have created a trusted innovation ecosystem to accelerate the energy transition, helping entrepreneurs and start-ups make their innovative ecosystems bigger and safer.”



**CHRISTEL
GALBRUN-NOEL**

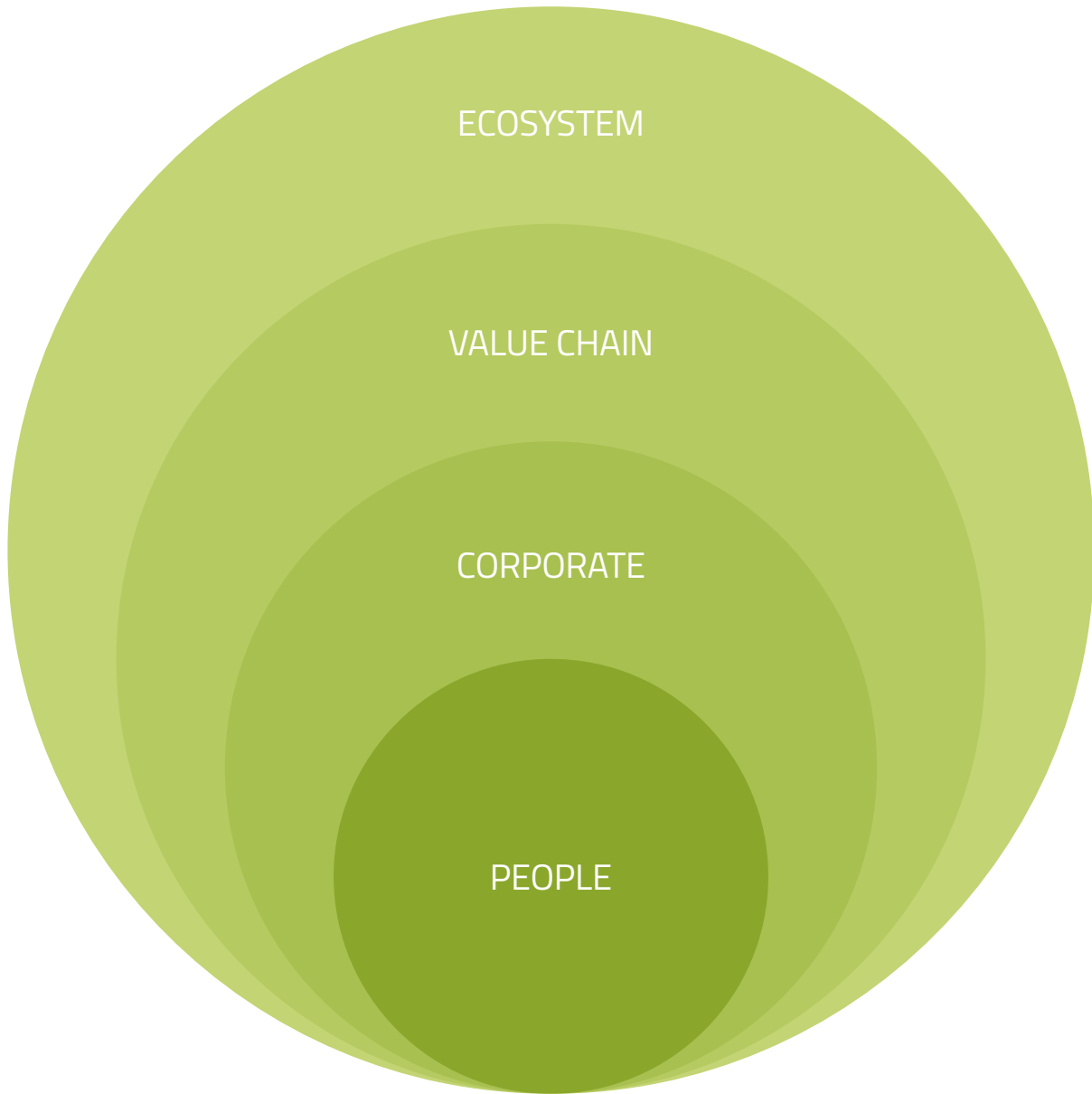
Segment President
Mobility at
Schneider Electric

“We are excited to be part of the creation of Verkor and have the opportunity to share our technical and operational expertise. This creation brings together the best of energy management and industrial know-how to produce green and competitive batteries, as part of our commitment to help Europe make the transition to electric vehicles.”





**OUR
INNOVATION
SYSTEM**



EIT InnoEnergy's Innovation System

EIT InnoEnergy's Innovation System

EIT InnoEnergy is on a mission: **to contribute to a more sustainable world fostering the Energy Transition.** This has been our 'why' since our foundation in 2010. This objective influences everything we do: any activity we undertake and any company we support should contribute to it by reducing costs in the energy value chain, reducing CO₂ emissions and/or securing the operability of the energy system.

By pursuing such a mission, EIT InnoEnergy is now the **leading sustainable energy innovation engine** that follows the principles of open and collaborative innovation. This includes four layers: **people, corporates, value chains and the ecosystem.** The interconnection of these layers makes synergies and innovation happen.

PEOPLE DIMENSION NUMBERS

$$P = \frac{1}{2} \rho A V^3$$

$$P = \frac{1}{8} \rho \pi d^2 v^3$$

$$\rho \left(\frac{\partial u_x}{\partial t} + u \frac{\partial u_x}{\partial x} \right)$$

$$\rho \left(\frac{\partial u_y}{\partial t} \right)$$



1,400+

MASTER SCHOOL
ALUMNI

94%

STUDENTS EMPLOYED
WITHIN 6 MONTHS
OF GRADUATION

30%

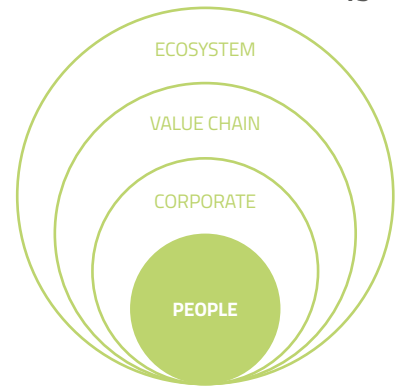
FEMALE STUDENTS

15%

AVERAGE ANNUAL SALARY
EARNING OVER GRADUATES
OF SIMILAR PROGRAMMES

92

NATIONALITIES
REPRESENTED IN OUR
PROGRAMMES



PEOPLE DIMENSION

Creating innovators through education

We firmly believe that the energy transition starts by engaging and changing people. It involves individuals and citizens with a new mindset. For this reason, **education is at the core of our innovation system**. Our graduates not only have an excellent technological background, but also entrepreneurial skills that equip them **to make an impact in the energy transition**.

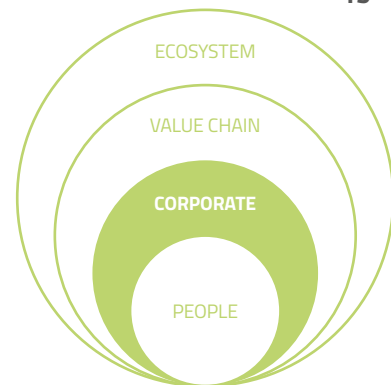
Today we have more **than 1400+ Master School alumni working in leading companies around the world**. We define them as our secret weapon, as these young people are changing the culture of companies from the inside out.



Value-added services provided by EIT InnoEnergy to make the innovative case: bigger, sooner and safer (de-risked)

CORPORATE DIMENSION

Creating and supporting innovative companies



To achieve the energy transition, innovative solutions are needed. By pursuing such an objective, innovators must decide to either create new companies or launch innovative projects. That is our second layer: accelerating and de-risking solutions and business cases by creating and supporting companies. In the last 10 years we have supported more than 480 companies. Today we have one of the largest sustainable energy investment portfolios worldwide, with more than 250 investee companies, most of which are launching hardware solutions (60%).

We invest in opportunities that make a big impact, and this goes hand in hand with industrial development. In addition, 85% of our companies are exporting, so we are looking for solutions that are highly scalable. Climate change and the energy transition are global issues and therefore we need global solutions that can be implemented not only in the nearest markets, but also worldwide, hence we are looking for ambitious plans.

As investors, we provide value in exchange for equity. This means that **we provide cash plus added-value services to accelerate the business case to make it happen bigger, sooner and safer (de-risked)**. We bring together knowledge and experience wherever it is located. Through our global network we reduce time to market, de-risk innovation and create commercially attractive solutions to empower a sustainable energy future.

We are looking for companies that aim for impact with scalable business models and/or disruptive technologies to:

- Reduce costs in the energy value chain
- Reduce CO₂ emissions
- Secure operability of the energy system
- Create sustainable growth
- Create jobs
- Improve competitiveness

CORPORATE DIMENSION NUMBERS

Volume

5,000+

START-UPS SCREENED

300+

PRODUCTS LAUNCHED

480+

COMPANIES SUPPORTED

250+

PORTFOLIO COMPANIES
INVESTED IN

UNTIL DECEMBER 2020

Performance

€3.4B

RAISED IN FUNDS

85%

EXPORTING

92%

SURVIVAL RATE

269

PATENTS FILED

16

MONTHS' TIME
TO MARKET



2

UNICORNS



5

CENTAURS



16

PONIES

Unicorns: companies valued +€1B
Centaur: companies valued €100-999M
Ponies: start-ups valued €10-99M

Leading industrial value chains for batteries, green hydrogen and solar PV

BATTERY INDUSTRY VALUE CHAIN European Battery Alliance (EBA)

The need for efficient batteries is growing fast, and for Europe, a domestic battery value chain is vital for a clean energy transition and competitive industry.

The European Commission launched the European Battery Alliance in October 2017 to address this industrial challenge. The annual market value is estimated at €250B from 2025 onwards and 4M+ jobs created. For Europe, the establishment of a complete domestic battery value chain is imperative for a clean energy transition and a competitive industry.

The industrial development programme of the European Battery Alliance, the EBA250, is managed by EIT InnoEnergy. Today, EBA250 is a project-driven community that brings together more than 600 industrial and innovation actors, from mining to recycling, with the common objective of building a strong and competitive European battery industry.

€250B

ANNUAL
MARKET VALUE

4M+

NEW JOBS

GREEN HYDROGEN VALUE CHAIN The European Green Hydrogen Acceleration Centre (EGHAC)

Green hydrogen can be key for solving the issue of the intermittency of renewable energy, and it is key to reach the European Union's goal to be fully carbon neutral by 2050. From a systemic view, green hydrogen also provides the opportunity to couple the electricity grid with the gas grid.

EIT InnoEnergy is committed to developing a green hydrogen economy in Europe and has launched the European Green Hydrogen Acceleration Centre with the support of Breakthrough Energy and the world's top tech and business leaders.

The initiative will speed the transition to a clean energy future and support the development of an annual €100B green hydrogen economy by 2025. This could create half a million direct and indirect jobs across the green hydrogen value chain.

The EGHAC is all about large industrial projects in a few designated value chains: green cement, heavy road transport, transport over water, including inland waterways, green hydrogen as a feedstock for fuels and fertiliser and green steel. These projects will kick-start the uptake of green hydrogen and can be replicated across Europe to increase the impact on greenhouse gas reduction and the creation of jobs.

€100B

ANNUAL
MARKET VALUE

500k

NEW JOBS

PHOTOVOLTAICS VALUE CHAIN European Solar Initiative

EIT InnoEnergy and SolarPower Europe are together helping to redevelop the photovoltaics (PV) value chain in Europe by launching the European Solar Initiative (ESI). The ESI's aim is to accelerate Europe's climate agenda and economic recovery, contributing to delivery of the European Green Deal objectives.

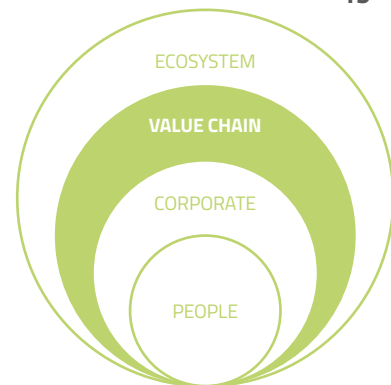
The ESI aims to redevelop a strong PV manufacturing industry in Europe—from raw materials to recycling—enabling the capture of the additional 20GW of annual solar demand that is forecast in Europe over the next decade. This will generate €40B of GDP annually and create 400,000 new direct and indirect jobs across the PV value chain.

€40B

ANNUAL
MARKET VALUE

400k

NEW JOBS



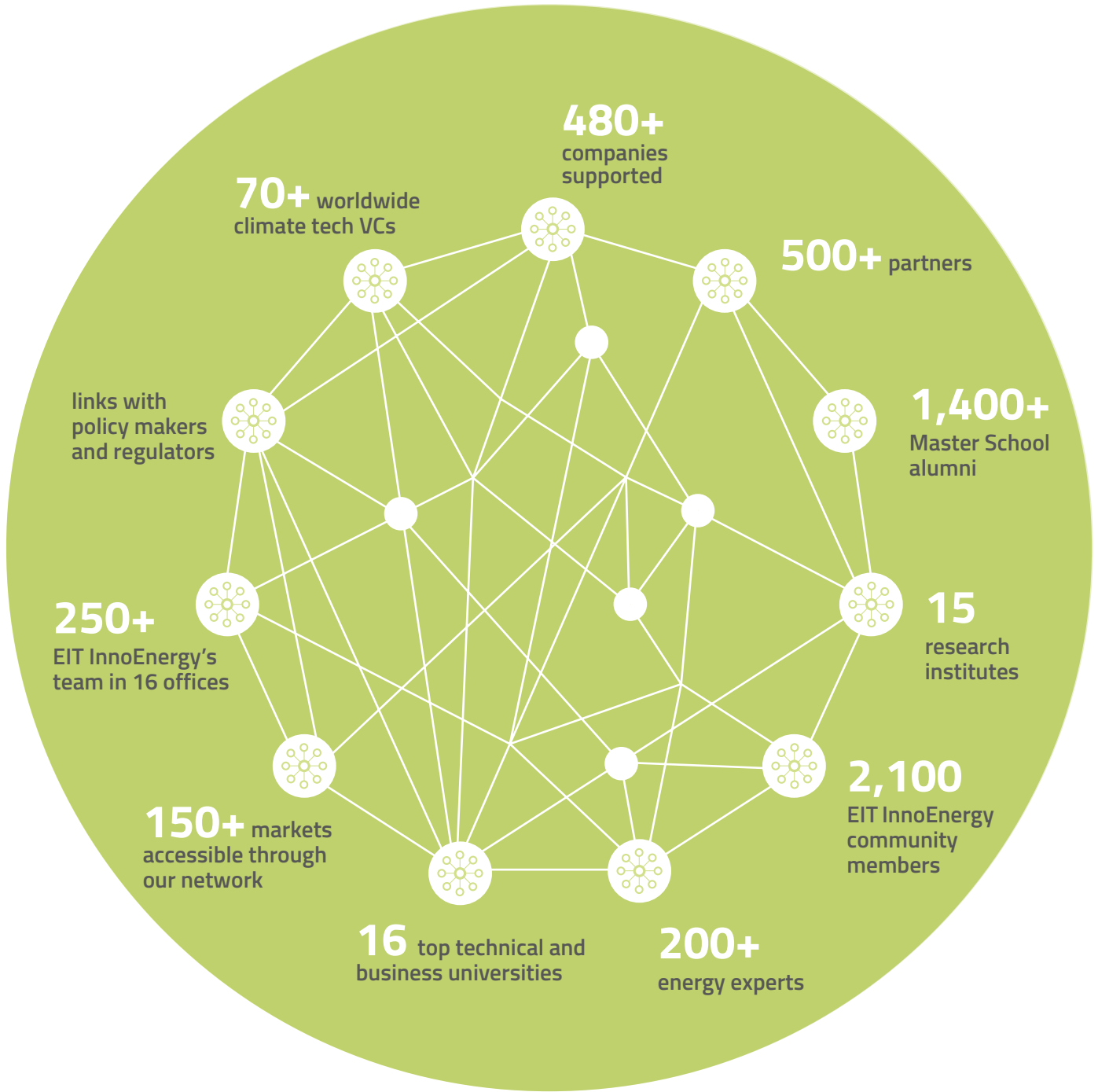
VALUE CHAIN DIMENSION

Creating new markets through industrial value chains

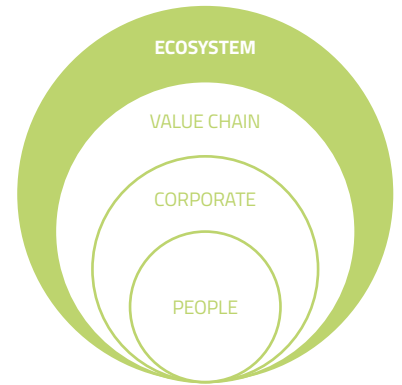
EIT InnoEnergy is spearheading the decarbonisation of Europe by leading industrial alliances in three strategic sectors: battery storage, green hydrogen and solar photovoltaics. These alliances bring together the knowledge and experience required to develop strategic value chains. This is:

- Creating an ad hoc ecosystem with stakeholders from across the value chain
- Increasing the capacity to support large industrial projects
- Filling the gaps of the existing value chain by fostering the required funding, skills and talent

These projects directly impact the energy trilemma: reducing the cost of energy, limiting greenhouse emissions, and increasing availability and security, all within Europe. Ultimately, these actions play a fundamental role in realising our goal of a carbon neutral Europe by 2050, as the impact is massive due to its scalability.



EIT InnoEnergy trusted innovation ecosystem in action



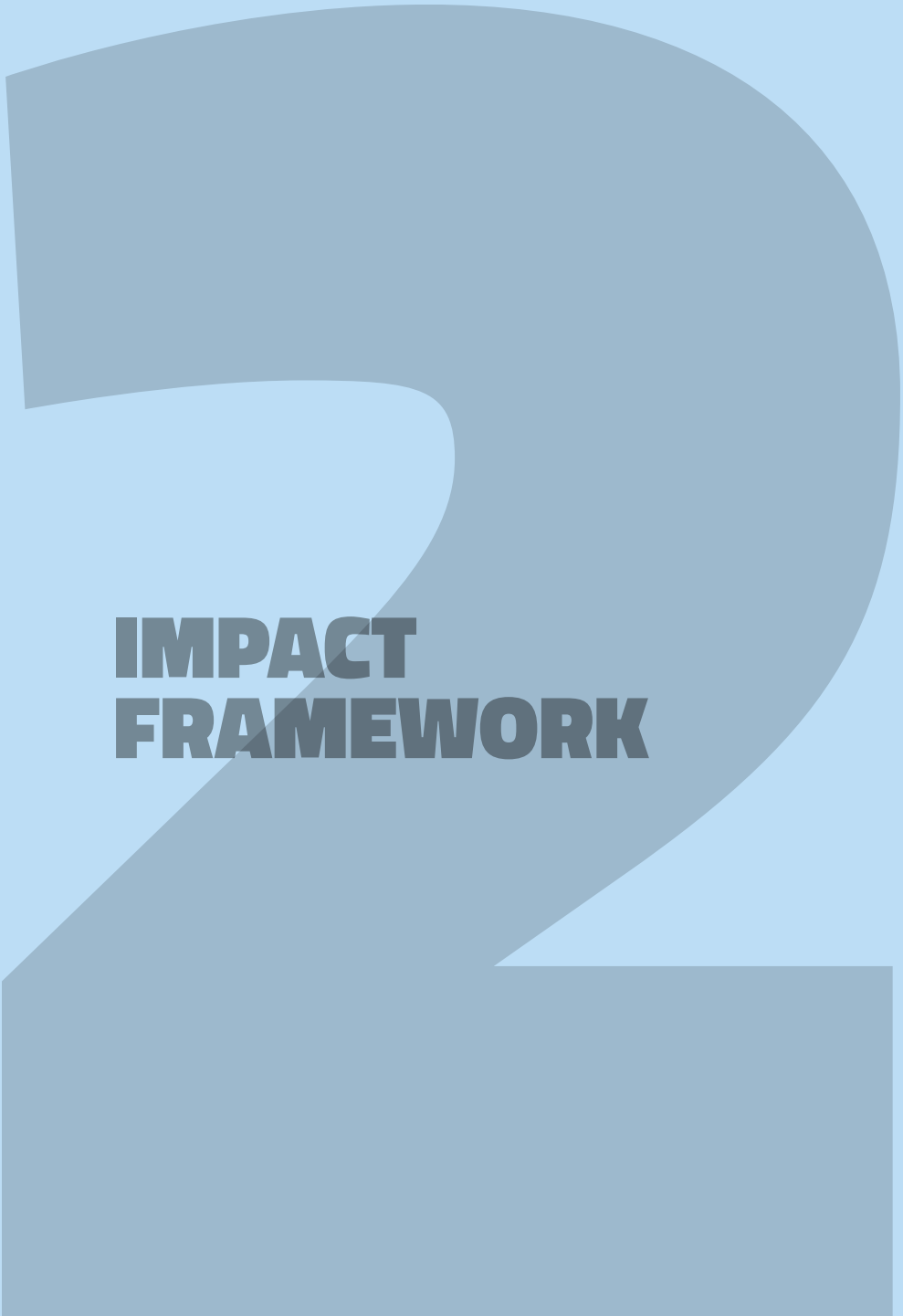
THE ECOSYSTEM DIMENSION

The last layer is the ecosystem, which allows us to support companies by bringing together stakeholders from education, research, industry and investor communities. For the last 10 years, EIT InnoEnergy has been able to create a trusted innovation ecosystem in sustainable energy, which is the first and only open innovation ecosystem managed by a private company.

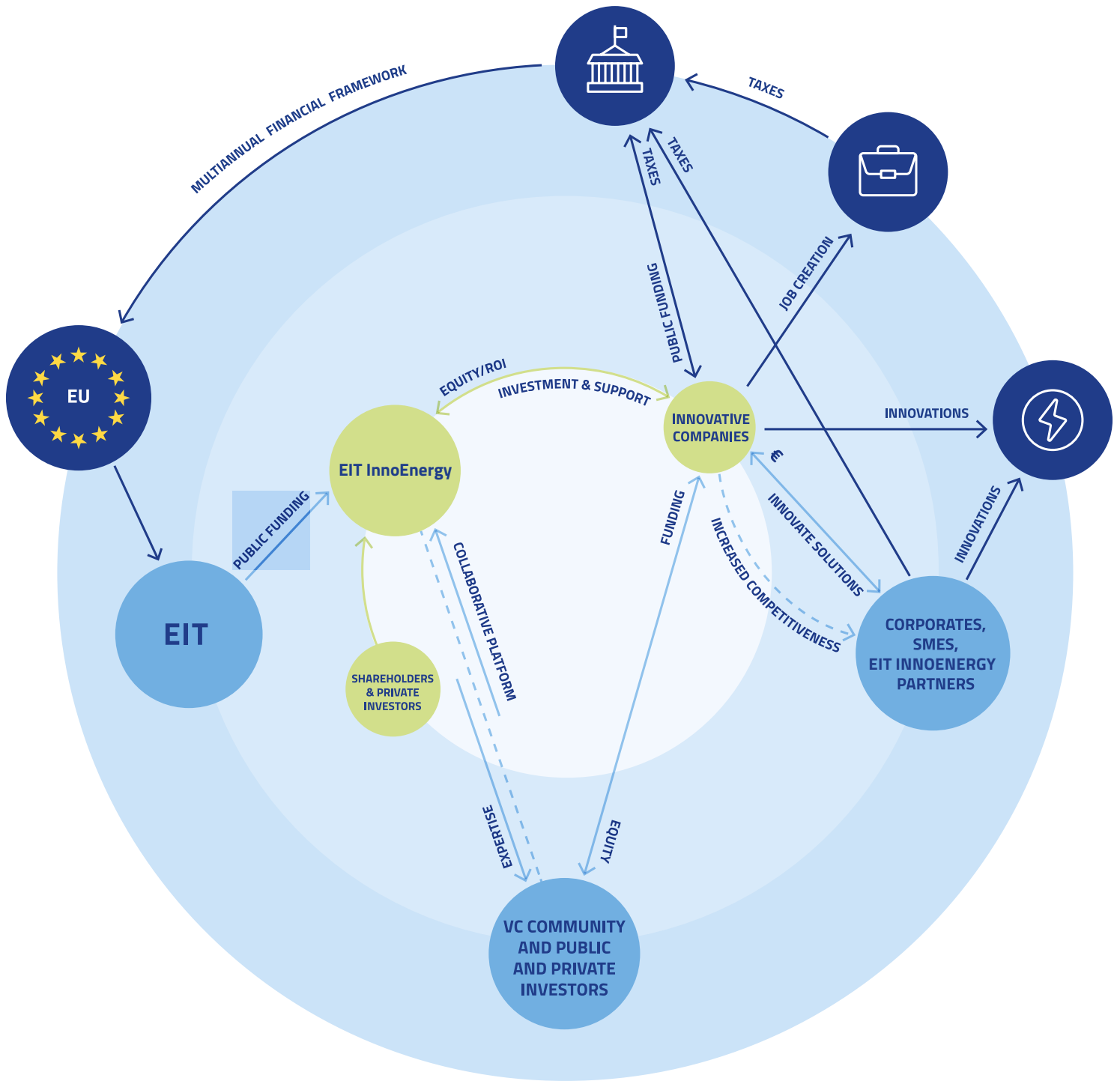
Today, the ecosystem is formed by more than 500+ partners from the US, Europe and Asia and has a high level of diversity in terms of cultures, backgrounds and type of organisations.



TBB.2018 photo contest | Photo by: Marco Garofalo



**IMPACT
FRAMEWORK**



- CORE BUSINESS
- EIT INNOENERGY ECOSYSTEM
- SOCIAL/MACRO ECOSYSTEM

- NATIONAL GOVERNMENTS
- JOB MARKET
- ENERGY CHALLENGES

EIT InnoEnergy's Impact Framework

Impact Framework

A TRUSTED ECOSYSTEM GENERATING VALUE

EIT InnoEnergy's trusted ecosystem generates value and impact through transactions. The impact goes beyond our core business, to our extended network of partners and players of the energy sphere and ultimately to society as a whole.

In this framework, value and impact have a broad meaning. EIT InnoEnergy aims to have a positive impact on the planet (**environment**) and on the people (**society**) as we continually solve problems that really matter. As a consequence, profits (**economic**) can be re-invested in new innovations.



JORDI LÓPEZ

Corporate Business
Creation Services
Manager

“The current landscape of impact investing, by considering ESGs and the UN's SDGs, comes with new opportunities for climate tech start-ups, but also with many challenges like how to address impact measurement. At EIT InnoEnergy we have streamlined our investment process to support our portfolio companies in generating business value through impact measurement and monitoring.”

IMPACT METHODOLOGY

At EIT InnoEnergy we follow the Environmental, Social and Governance (ESG) principles for responsible investments. However, one of the challenges of sustainable investment is developing an operational methodology that allows impact measurement and monitoring. The combination of the **European Green Deal**, which is at the core of our strategy, and the alignment with the **Sustainable Development Goals (SDGs)**, established by the United Nations, has allowed us to define EIT InnoEnergy's impact assessment methodology.

This framework provides the means not only to assess and classify our investments according to the contribution towards different impact indicators, but also to quantify the impact of our portfolio's companies and ultimately the strategic goals of EIT InnoEnergy.

In line with the EIT InnoEnergy impact framework, we have associated metrics to measure the aggregated impact contribution of our portfolio of companies: economic (profit), social (people) and environmental (planet).

IMPACT MEASUREMENT

The impact measurement approach for the purpose of this report is twofold: firstly, the contribution of all the portfolio companies to SDGs and secondly, the quantification of impact metrics (economic/social/environmental) aggregated from all companies in our portfolio. The timeframe considered in the calculations is 2030 for environment-related impact indicators, while for economic and social impact dimensions, realised impact has been calculated.

The figures presented in the report are based on the data provided by the companies in our portfolio. The data was reviewed and validated by an internal team, and afterwards it was aggregated and consolidated. Regarding environmental indicators, when some were not available, different measurement methodologies were used in conjunction with the company. These include IRIS+, GHG protocol, Mission Innovation and/or CRANE tool developed by PRIME coalition and NYSERDA. Figures are an estimation for 2030 and therefore they should be considered as potential contribution.

EIT INNOENERGY INVESTMENT PROCESS

1 INVESTMENT APPROACH

- EIT InnoEnergy mission and strategic goals based on positive impact
- A dedicated team supporting integration of the impact model in the investment process and across EIT InnoEnergy's operations
- Internal dissemination/trainings of ESG principles and impact model

2 SELECTION

- High potential of economic and environmental impact as part of selection criteria of EIT InnoEnergy investments
- SDGs and Green Deal contribution as part of EIT InnoEnergy's investment selection criteria
- ESG risks assessed during the selection process
- Creation of ESG awareness among candidates

3 PORTFOLIO MANAGEMENT

- Monitoring of economic, social and environmental impact from portfolio companies
- Supporting companies to measure their impact and contribution to SDGs and Green Deal objectives
- Supporting companies to achieve their impact goals through our added-value services
- ESG risk follow-ups in regular meetings with the portfolio companies
- Impact report publication

4 EXIT

- ESG and impact as a way to identify potential exit opportunities (searching for impact-driven buyers/investors)
- Promoting impact contribution of our investments



ELENA BOU

Co-founder and Innovation
Director EIT InnoEnergy

"We are proud of the actual and the future impact of our assets, the estimations by 2030 will be 616Twh of generation of clean energy and the potential to reduce 1.1G tCO₂ of greenhouse gas emissions, all these companies will contribute significantly to net-zero targets as the numbers show us, the innovation is the key to have a clean, decarbonised and sustainable world."



DIEGO PAVIA

CEO EIT InnoEnergy

"In EIT InnoEnergy, when we invest, we evaluate what could be the contribution of our ventures in the impact dashboard KPIs. Then we set up a plan, together with the portfolio company, to boost those beyond the initial case. After 10 years in business, we feel proud of the achieved results and the expected ones by 2030. We are in a journey and we are delivering."

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^G tCO₂

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



A large, stylized letter 'E' in a dark olive green color, centered on the page. The 'E' has a rounded top and bottom, and a central horizontal bar. The text 'OUR PORTFOLIO' is written in a bold, dark olive green font across the middle of the 'E'.

OUR PORTFOLIO



Our portfolio



MATIAS TORRELLAS
Portfolio Manager

“We combine companies with high-capex needs with capex-light business models, often involving software and artificial intelligence solutions to achieve our desired company mix.”

EIT InnoEnergy’s equity holdings are managed following a portfolio management approach with the goal of maximising the return (economic/societal/environmental) given the desired level of risk. The risk level taken is commensurate with a portfolio of early stage companies and scale-ups in sustainable energy. We combine companies with high-capex needs with capex-light business models, often involving software and artificial intelligence solutions to achieve our desired company mix.

We classify companies in our portfolio across seven thematic fields: Renewable Energies, Energy Storage, Smart Electric Grid, Sustainable Cities and Buildings, Energy Efficiency, Energy for Transport and Mobility and Circular Economy. For each thematic field we have designed a strategy that takes into account our vision of the market needs to achieve the energy transition targets set up by the EU, the sub-sectors where we see the best market opportunities and the need to complete the value chain for some of the thematic.

UN Sustainable Development Goals



NO POVERTY



REDUCED INEQUALITIES



ZERO HUNGER



SUSTAINABLE CITIES AND COMMUNITIES



GOOD HEALTH AND WELLBEING



RESPONSIBLE CONSUMPTION AND PRODUCTION



QUALITY EDUCATION



CLIMATE ACTION



GENDER EQUALITY



LIFE BELOW WATER



CLEAN WATER AND SANITATION



LIFE ON LAND



AFFORDABLE AND CLEAN ENERGY



PEACE, JUSTICE AND STRONG INSTITUTIONS



DECENT WORK AND ECONOMIC GROWTH



PARTNERSHIPS FOR THE GOALS



INDUSTRY, INNOVATION AND INFRASTRUCTURE

EU Green Deal Elements



Increasing the EU's climate ambition for 2030 and 2050



Supplying clean, affordable and secure energy



Mobilising industry for a clean and circular economy



Building and renovating in an energy and resource efficient way



A zero pollution ambition for a toxic-free environment



Preserving and restoring ecosystems and biodiversity



From 'Farm to Fork': designing a fair, healthy and environmentally-friendly food system



Accelerating the shift to sustainable and smart mobility



23%

Renewable Energies



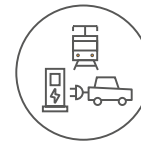
9%

Energy Storage



24%

Sustainable Cities and Buildings



11%

Energy for Transport and Mobility



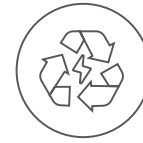
8%

Smart Electric Grid



12%

Energy Efficiency

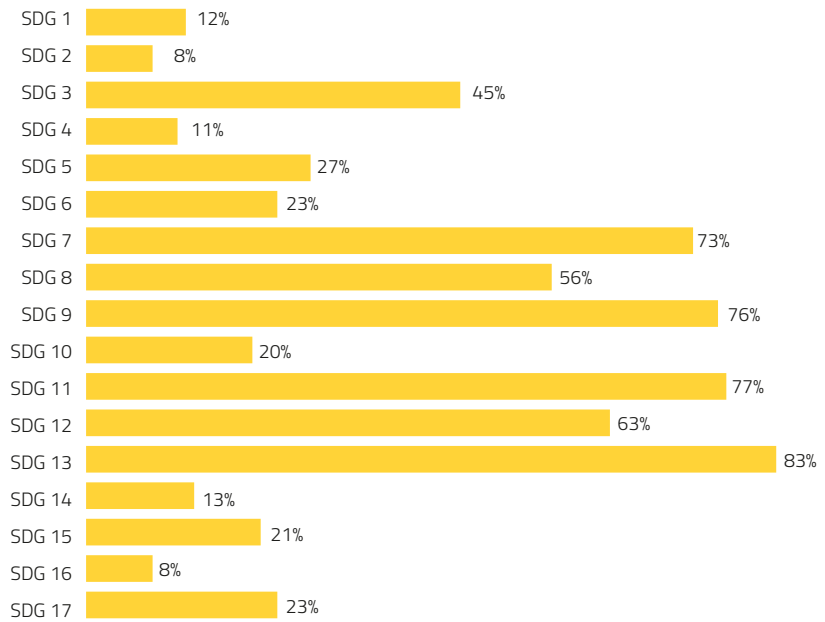


11%

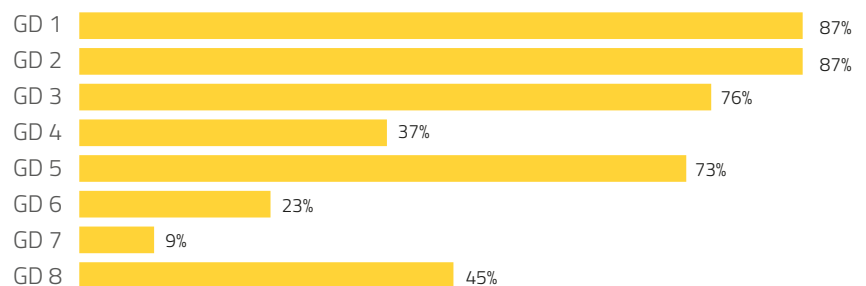
Circular Economy

UN SDGs CONTRIBUTION

As part of EIT InnoEnergy's commitment to making a positive impact on the energy sector, the environment, the economy and society, we assess the contribution the companies in our portfolio make to SDGs. Given that SDGs 7 and 13 have a direct link to EIT InnoEnergy's strategic goals of reducing CO₂ emissions, increasing the security of energy supply, and the lowering of costs along the value chain, it is no surprise that 95% of the innovations we support contribute to SDGs 7, 8, 9, 11, 12 and 13.



EU GREEN DEAL CONTRIBUTION





**MARCIN
LEWENSTEIN**

Thematic Field Leader,
Energy for Circular
Economy

“Circular Economy solutions promise to move green energy transformation to another level, providing much needed sustainable development opportunities for heavy, carbon-intensive industries, long-haul transport and other difficult-to-abate sectors. At EIT InnoEnergy, we are proud to work with entrepreneurs and innovators who have the courage to change some of the most vital, but also the most conservative corners of the real economy.”

Circular Economy

The Energy for Circular Economy thematic field focuses on conversion processes and complete conversion routes from biogenic and waste resources to final energy carriers and chemicals.

Therefore, the thematic field includes: feedstocks and resources, conversion processes, transport, storage and use of energy carriers. In addition, the thematic field covers technologies associated with these process chains, such as storage and distribution of heat and cold on a large scale, carbon capture and utilisation and the decommissioning of energy production sites at the end of their life.

Challenges

The thematic field scope outline for the Energy for Circular Economy:

- Feedstock sourcing technologies
- Energy conversion technologies
- Smart grids for energy carriers – logistics, transportation and distribution
- Smart heat grids
- Air quality and sustainability of conventional energy sources
- Decommissioning technologies

Our assets are addressing the following Circular Economy challenges:

- Creating substitutes for fossil-derived products and energy carriers
- Providing ways for valorisation of various waste streams
- Facilitating full application of circularity principles to bioeconomy
- Satisfying demand for sustainable & dispatchable heat
- Enabling opportunities for carbon capture and utilisation

MAIN CONTRIBUTION TO UN SDGs



MAIN CONTRIBUTION TO GREEN DEAL



Bioeconomy

- Solid biomass
- Biogas & bio-SNG
- Biofuels
- Green hydrogen (non-electrolysis)



Waste solutions

- Waste-to-energy
- Waste-to-fuels
- Recycling and materials recovery



Power-to-X

- Power-to-hydrogen/gas
- Power-to-heat
- Power-to-liquids
- Carbon capture and utilisation (CCU)



COMPANY	COUNTRY	SDG 7	SDG 8	SDG 9	SDG 11	SDG 12	SDG 13	GD 1	GD 2	GD 3	GD 4	GD 5	GD 6	GD 8
Mebius d.o.o.	Slovenia	●	●	●	●	●	●	●	●	●	●	●	●	●
Ecobean	Poland	●	●	●	●	●	●	●	●	●		●	●	
Solaga	Germany			●	●	●	●	●	●	●	●	●	●	
Hymeth ApS	Denmark	●		●	●	●	●	●	●	●	●	●		●
AROL ENERGY SAS	France	●		●	●		●	●	●	●		●		●
Athena Recherche et Innovation	France		●	●				●	●	●			●	●
DELTALYS	France	●	●	●	●	●	●	●	●	●		●		
NAÖDEN	France	●	●	●	●	●	●	●	●	●	●	●		
POLYTOPOLY	France		●	●	●	●	●	●		●		●		
Meva Energy	Sweden	●		●	●	●	●	●	●	●		●		
Nordluft Automation AB	Sweden	●				●	●	●	●	●			●	●
ORCHESTRA SCIENTIFIC S.L.	Spain	●					●	●	●	●		●		
C-Green Technology AB	Sweden	●		●	●	●	●	●	●	●		●		
ENOSIS	France	●	●	●	●	●	●	●	●	●		●	●	●
Enetech	Poland	●		●	●	●	●	●	●	●		●		
SADAKO TECHNOLOGIES	Spain			●	●		●	●		●		●		
Recolo	Latvia			●	●	●	●	●		●		●	●	



The world's first electromagnetic alkaline electrolyser

€2.8B

ENERGY SAVINGS (ANNUALLY BY 2030)

56M tCO₂

EQUIVALENT EMISSIONS AVOIDED (ANNUALLY BY 2030)

CHALLENGE TO BE SOLVED

Sustainable hydrogen production is very expensive (as electrolysers require a platinum- or iridium-based catalyst), energy inefficient, large in size and they only compress hydrogen gas up to 35 bar.

THE SOLUTION

A low-temperature alkaline electrolyser that is compact, lightweight and that supports high pressure electrolysis. It includes radical innovations: a new non-precious alloy electrocatalyst, it is capable of delivering highly compressed gas and its lightweight and compact electrolyser reduces the space required.

VALUE PROPOSITION

- Expected to produce hydrogen at a cost reduction of up to 40% compared to existing alkaline electrolysers
- A state-of-the-art system for FC vehicle refilling stations, sustainable steel production, bio oil refinery, energy storage, etc.
- Lower capital expenses (capex) and operating expenses (opex). Highly efficient
- CO₂ reduction
- Energy bill reduction



SCAN ME

MAIN CONTRIBUTION TO UN SDGs



MAIN CONTRIBUTION TO GREEN DEAL



MATS BLACKER
CEO Hymeth

"EIT InnoEnergy has been a very important partner to Hymeth over the years. The responsibility of being a lead investor has been shown in financing rounds with a number of investments done mostly by defending its shareholding but also by providing additional services to Hymeth. This has created a trusted investment environment to shareholders and new investors in financing rounds."



STEN PERSSON
Business Creation Manager

"EIT InnoEnergy has supported Hymeth throughout the years since 2017, mainly by the means of funding, services and corporate governance. EIT InnoEnergy's Europe-wide organisation is having an impressive set of competencies and disciplines that have been made available to Hymeth. The network around EIT InnoEnergy has been a particularly important success factor to Hymeth."

NAODEN

Co-générons une autre énergie

Micro bioenergy generation power plants

2.4 TWh

CLEAN ENERGY GENERATION (ANNUALLY BY 2030)

€24.8M

ENERGY SAVINGS (ANNUALLY BY 2030)

442k tCO₂

EQUIVALENT EMISSION AVOIDED
(ANNUALLY BY 2030)

CHALLENGE TO BE SOLVED

Society faces major challenges when it comes to the environment and waste. CO₂ and waste must be reduced to meet European and world standards.

THE SOLUTION

Naoden is manufacturing micro power plants that valorise waste to turn it into energy. The concept that has been developed is orientated to modular and standard units that can be put in parallel or series to address various energy needs and various typologies of solid fuels.

VALUE PROPOSITION

- Waste reduction
- CO₂ reduction
- Energy bill reduction



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ERIK MOUILLÉ
CEO Naoden

“With the support of EIT InnoEnergy, Naoden has moved from an experimental design to the industrialisation and commercialisation of its decentralised power plants. Today, more than 3000 kW are installed to replace fossil fuels. More to come...”



PEDRO RIERA SARDÁ
Business Creation Officer
FRANCE

“EIT InnoEnergy supports the translation of Naoden’s vision into an operational mode and an efficient business model. The first focus was on sales, to structure the go-to-market and make it effective. This was also facilitated by communication tools such as videos and press releases and by strategic support for the establishment of partnerships.”



**LUCIENNE
KROSSE**

Thematic Field Leader,
Energy Efficiency &
Sustainable Cities
and Buildings

“Climate neutrality is emerging as the new standard. Since the lifetime of industrial assets is long, investments should already be assessed today, on compatibility with climate or carbon neutrality targets while simultaneously safeguarding business competitiveness.”

Energy Efficiency

Europe has set itself a goal of achieving climate neutrality by 2050. This means that all sectors need to become virtually climate-neutral within the next 30 years. Today, the industrial sector accounts for ca. 20% of annual net greenhouse gas emissions.

Reducing consumption at home and at work is still the most cost-effective way to reduce carbon emissions and improve energy security and competitiveness. We are encouraging innovation in two areas that together account for more than 50% of the EU's energy consumption, and at least 33% of its CO₂ emissions:

- Energy efficiency in buildings
- Energy efficiency in industry

Challenges

- Electrification and affordable low carbon technologies
- Digitalisation and intelligence: process intelligence, energy efficiency optimisation, predictive maintenance, energy management systems, etc.
- Energy efficiency improvements, resource efficiency and efficient water treatment

MAIN CONTRIBUTION TO UN SDGs



MAIN CONTRIBUTION TO GREEN DEAL



Sensors and intelligence to improve energy efficiency, process insights and optimisation



Thermal systems and equipment



Electrification components and systems



Water treatment and efficiency



COMPANY	COUNTRY	SDG 7	SDG 8	SDG 9	SDG 11	SDG 12	SDG 13	GD 1	GD 2	GD 3	GD 4	GD 5	GD 6	GD 8
Vertex Sweden AB	Sweden			●	●			●	●	●		●		●
Klugit Energy	Portugal	●				●	●	●	●	●	●	●		
Samster AB	Sweden	●	●	●	●		●	●	●	●	●	●		
ALPINOV X	France	●		●	●	●	●	●	●	●	●	●		
EcoTech Ceram (ETC)	France	●		●	●		●	●	●	●	●	●	●	●
Energiency	France	●	●	●		●	●	●	●	●				
WUPATEC	France			●	●	●	●	●	●	●				
GULPLUG	France	●			●		●	●	●			●		●
Stockholm Water Technology (SWT)	Sweden		●	●	●	●	●	●	●	●			●	
cascade drives ab	Sweden		●	●	●	●	●	●	●	●		●		●
OmegaLambdaTec GmbH	Germany	●	●	●	●	●	●	●	●	●	●	●		●
Percyro AB	Sweden			●	●		●	●		●		●		
HeatPower	The Netherlands			●		●	●	●	●	●				



Linear drives to electrify linear motion in heavy machines

€140M

ENERGY SAVINGS (ANNUALLY BY 2030)

33M tCO₂

EQUIVALENT EMISSIONS AVOIDED (ANNUALLY BY 2030)

Cascade Drives has developed the next generation of electromechanical linear drives for mobile and industrial applications with high load capacity combined with high speed.

CHALLENGE TO BE SOLVED

A transition to all-electric solutions for industry equipment is required. However, there is no substitute for hydraulic cylinders in large and heavy applications with higher forces, power and robustness requirements.

THE SOLUTION

Cascade Drives' electromechanical linear drive utilises a unique gearbox technology that enables high performance capabilities of high-load and high-speed capacity as well as high energy efficiency. The high performance attributes achieved by Cascade Drives technology make it suitable for heavy-duty operations and enables all-electrification in heavy equipment, where it hasn't been possible before.

VALUE PROPOSITION

- Combine both high-load capacity and high-speed
- Lower life-cycle costs
- Maximises the productivity of customer equipment
- Reduces emissions, fuel cost and environmental threat



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MAIN CONTRIBUTION TO UN SDGs



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KRISTIAN FLORESJÖ
CEO Cascade Drives

"Through the support of EIT InnoEnergy, Cascade Drives has successfully developed and launched an innovative solution into the market. They helped us in several important early-stage dimensions, providing technology enhancement, access to market, finance and human capital."



INGVAR ERIKSSON
Business Creation Officer
SCANDINAVIA

"Cascade Drives is a spin-out from CorPower Ocean. EIT InnoEnergy played a significant role identifying the opportunity outside the CorPower wave energy converter and facilitated the spin-out from CorPower. Cascade was supported through the Highway programme and received support in the various dimensions of the programme. EIT InnoEnergy is committed to support Cascade going forward and takes an active role as a board member."


ALPINOV X

Highly efficient cold power generation

€301M

ENERGY SAVINGS (ANNUALLY BY 2030)

2.8M tCO₂

EQUIVALENT EMISSIONS AVOIDED (ANNUALLY BY 2030)

Alpinov X produces ground-breaking innovations dedicated to various industries.

CHALLENGE TO BE SOLVED

Major industries consume a lot of energy for cooling: data centres, food industry, district cooling... Current cooling generators are reaching their technological limits and can't offset the rising cost of energy.

THE SOLUTION

To address these issues, and in order to limit greenhouse gas emissions, our cold generator brings huge improvements. It's based in a two-stage vacuum evapo-condenser that generates clean cold with very low energy consumption.

VALUE PROPOSITION

- Decreased CO₂ footprint linked to cold chain industry operations
- Data centres, district cooling operators turnover consolidated



SCAN ME

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MAIN CONTRIBUTION TO GREEN DEAL


THOMAS VINARD

 CEO & Co-Founder at
ALPINOV X

"EIT InnoEnergy has been actively supporting us since the beginning and has participated in our various financing rounds. We have been able to make very good industrial connections thanks to EIT InnoEnergy partners met at The Business Booster. For example, we will be deploying our industrial cooling solution on the Lyon and Paris cooling grids, in collaboration with Dalkia and Engie. Great opportunities!"


FRÉDÉRIQUE PEDRENO

Business Creation Manager

"What an opportunity for EIT InnoEnergy to support the development of Alpinov X and to contribute to this disruptive and impactful innovation! Over the past four years, we have been supporting actively this great team on topics such as: market access strategy, IP strategy, HR strategy, business model, access to finance, etc. Our industrial partners follow the start-up's evolution very closely and set up pilot projects on various sites. In the coming years, we hope to continue our support through the worldwide commercialisation of their solution."



**JOHAN
SÖDERBOM**

Thematic Field Leader,
Energy Storage &
Smart Grids

“In order to cope with the non-plannable characteristics of the main renewable generation sources of wind and solar, it is necessary to add flexible resources to the system such as energy storage solutions and demand side management services.”

Energy Storage

The way we generate, transmit and distribute power is changing. Energy storage has a vital role to play in the transition to a sustainable energy system.

We are encouraging innovation in large- and small-scale storage that will:

- Help integrate renewable energy into the electricity grid
- Enable a more distributed and responsive distribution system
- Support business opportunities for new actors in the energy system

Challenges

- Lithium ion battery value chain
- Lithium ion battery recycling and re-use
- Innovative battery and energy storage technologies
- Alternative energy storage business models
- Long-duration storage

MAIN CONTRIBUTION TO UN SDGs



MAIN CONTRIBUTION TO GREEN DEAL



Lithium ion battery value chain



Innovative battery and energy storage technologies



Alternative energy storage business models



Lithium ion battery recycling and re-use



COMPANY	COUNTRY	SDG 7	SDG 8	SDG 9	SDG 11	SDG 12	SDG 13	GD 1	GD 2	GD 3	GD 4	GD 5	GD 6	GD 8
Rivus	Scandinavia	●			●	●		●	●	●				●
C2C-NewCap	Portugal			●			●							
The Batteries Sp. z o.o.	Poland		●	●		●			●	●		●		●
HeatVentors	Hungary	●		●	●		●	●	●	●	●	●		●
WATTALPS	France	●	●	●	●	●	●	●	●	●		●		●
Solarworx	Germany	●	●	●	●	●			●					
Graphenix (GDI)	USA	●	●	●	●	●	●	●	●	●		●		●
Skeleton Technologies	Estonia and Germany	●	●	●	●	●	●	●	●	●		●		●
Celcibus AB	Sweden	●	●	●	●	●	●	●	●	●		●	●	●
Silbat Energy Storage Solutions, SL	Spain	●		●	●		●	●	●	●		●		●
BeePlanet Factory SL	Spain	●	●	●	●	●	●	●	●	●		●		●
Altris AB	Sweden	●	●	●	●	●	●	●	●	●	●	●	●	●
AC Biode S.a r.l.	Luxembourg	●		●	●		●	●	●	●	●	●		●
Wattsun pop-up power b.v.	The Netherlands	●	●	●	●	●	●	●	●	●		●		
NAWA TECHNOLOGY	France	●	●	●	●	●	●	●	●	●		●	●	●
Elestor B.V.	The Netherlands	●	●	●	●		●	●	●	●		●		
Impact Clean Power Technology S.A.	Poland	●	●	●	●		●	●	●	●		●		●



Wattsun provides green pop-up power for off-grid situations

€2.5M

ENERGY SAVINGS (ANNUALLY BY 2030)

1.3M tCO₂

EQUIVALENT EMISSIONS AVOIDED (ANNUALLY BY 2030)

The Wattsun is a portable, plug and play powerstation that gives you the freedom to have power with you at all times.

CHALLENGE TO BE SOLVED

In off-grid situations it is common to use fuel generators as a power supply. These generators typically have low energy efficiency, emit excessive amounts of CO₂, smell and are noisy.

THE SOLUTION

Wattsun provides a portable, easy-to-use and silent off-grid power supply called 'The Wattsun One' that can be charged with renewable energy. This means no emissions (CO₂, NOx) no smell and no noise.

VALUE PROPOSITION

- Cost effective compared to 'traditional solutions' like generators
- Enables the use of green power
- User-friendly



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MAIN CONTRIBUTION TO UN SDGs



MAIN CONTRIBUTION TO GREEN DEAL



KOËN OLIESLAGERS

Founder and CEO
Wattsun

"There was never a doubt in our mind that one of the key challenges of the energy transition will be the demands in the off-grid power market space. At Wattsun we are proud to have developed a unique stackable off-grid power solution that can easily and comfortably replace the generators used at events, construction sites or any other application where today generators are typically used to supply the power demand. Our key aim has been to create a seamless and easy "plug and play" type of experience for the users and to ensure that from a technology point of view the powerpack can operate in all weather conditions. As the first formal investor, EIT InnoEnergy has been part of the development and growth of Wattsun for many years. They have continued to support the company not only financially, but also with support and guidance through both the good times and the challenging times."



ALEXANDER GOOS

Business Creation Officer
Benelux

"Wattsun correctly anticipated the "off-grid" power demand and developed a product that excels in its simplicity for the user. The technology behind it is refined and well thought out. The entrepreneurs have navigated many challenges and are currently in their initial growth phase. EIT InnoEnergy contributed in the design-to-manufacture process and helped to challenge the roll-out and business strategy. Wattsun is setting ambitious targets for itself and we are looking forward to the continued success of the company."



The fastest ultracapacitor

41

JOBS CREATED (ACCUMULATED UNTIL 2020)

24%

FEMALE (ACCUMULATED UNTIL 2020)

418k tCO₂

EQUIVALENT EMISSIONS AVOIDED
(ANNUALLY BY 2030)

NAWA Technologies is developing an ultra-fast, long-life green carbon battery to complement and/or replace batteries in applications where high power is needed. Provider of Innovative products and solutions based on organised carbon nanostructures (VACNT).

CHALLENGE TO BE SOLVED

Designers of energy storage systems face the challenge of finding technology to meet the requirements of peak power demand, autonomy, limited mass or volume and increased lifetime.

Batteries may be oversized to avoid exposing the system to high current peaks, but this compromises on cost and safety.

THE SOLUTION

NAWA cells, modules and systems will help increase power availability for any application. This will make rethinking the way to design energy storage system by combining NAWA cells with other technologies like batteries or fuel cells to comply with new usage for IOT, 5G technology, power tools and any electrical vehicles.

VALUE PROPOSITION

In combination with a battery, one can design an energy-storage system with:

- Improved operational lifetime
- Better pulsed-power performance
- Reduced size



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MAIN CONTRIBUTION TO UN SDGs



MAIN CONTRIBUTION TO GREEN DEAL



ULRIK GRAPE
CEO Nawa Thechnologies

"EIT InnoEnergy is a valued shareholder and contributor to NAWA and our energy storage business activities. We have benefited from the active engagement and support of the EIT InnoEnergy team both in terms of project funding and the individual and personal attention that is offered to NAWA. We have a dedicated and highly engaged Project Manager from EIT InnoEnergy that both challenges us and is constantly thinking of new ways to support us. EIT InnoEnergy has brought to NAWA European collaborative project funding opportunities, supported NAWA in our applications and provided vital market information. NAWA is a member of the European Battery Alliance established by EIT InnoEnergy and EIT Innoenergy continues to demonstrate a strong and committed effort to put NAWA into additional funded projects. In summary, NAWA appreciates the invaluable support and desire by EIT InnoEnergy to push NAWA forward in the energy storage market in Europe with all the opportunities that exist and encourages NAWA in our focus on a sustainable approach to our business model."



EMILIEN SIMONOT
Strategic Asset Manager

"Its hardtech base, its variety of applications, its outstanding team, its amazing potential all along the value chain... That is what made and what makes NAWA Technologies a perfect candidate to benefit from the unique EIT InnoEnergy's ecosystem value. We have been working with NAWA Technologies consolidating value from its early days, and we look forward to a bright future together."



**JOHAN
SÖDERBOM**

Thematic Field Leader,
Energy Storage &
Smart Grids

“We need to ensure that it will be possible to integrate the necessary amount of renewable generation in order to reach the ambitious CO₂ targets of Europe. This is done by promoting hardware and software technologies that make it possible to operate the grids in a more efficient and optimised way as well as looking at completely new technologies such as DC-Grids.”

Smart Grid

The electric grid is increasingly becoming a critical part of the transition to a sustainable energy system. Increased use, intermittent generation sources, and new regulations put strain on the system.

Therefore, we are encouraging new solutions that:

- Enable the hosting of new services, technologies and business models
- Enable information, communication and analytic capabilities on a large scale
- Support enhanced cyber-security and critical infrastructure protection

Challenges

- Smart electric grid infrastructure systems and services
- Grid edge technology and energy sharing solutions
- Utility-level integration and scaling
- Power system cyber-security and infrastructure protection

MAIN CONTRIBUTION TO UN SDGs



MAIN CONTRIBUTION TO GREEN DEAL



Smart Electric Grid infrastructure systems and services



Grid edge technology and energy sharing solutions



Powersystem cyber-security & infrastructure protection



COMPANY	COUNTRY	SDG 7	SDG 8	SDG 9	SDG 11	SDG 12	SDG 13	GD 1	GD 2	GD 3	GD 4	GD 5	GD 6	GD 8
SciBreak	Sweden	●	●	●			●	●	●	●		●		●
Beedata	Spain	●		●	●	●		●	●		●			
GML Transmission Line Solutions S.A.	Portugal	●	●	●	●	●	●	●	●	●	●	●		●
SunRoof International Holding AB	Sweden	●	●	●	●	●	●	●	●	●	●	●	●	●
KOENAtec	Germany	●		●	●			●	●	●	●	●		●
Pionierkraft	Germany	●			●		●	●	●		●			●
Foreseeti AB	Sweden	●	●	●				●	●	●				●
Bamboo Energy	Spain	●	●	●	●	●	●							



Ultra-fast electric circuit breakers for medium and high voltage

€160M

EQUIVALENT ENERGY SAVINGS (ANNUALLY BY 2030)

735k tCO₂

EQUIVALENT EMISSIONS AVOIDED (ANNUALLY BY 2030)

CHALLENGE TO BE SOLVED

Power transmission capabilities must be radically extended, replacing alternating current (AC) with high voltage direct current (HVDC). HVDC requires stable protection equipment such as circuit breakers and is thus very costly.

THE SOLUTION

SCiBreak's technology combines power electronics and mechanical interrupting elements and allows for safe and fault-tolerant operation of HVDC grids at a substantially lower cost compared to existing breaker solutions. This is particularly important in an HVDC grid since the fault currents are not limited and a fault, if not isolated, will rapidly lead to the collapse of the entire grid.

VALUE PROPOSITION

- Allows for safe and fault-tolerant operation of HVDC grids
- Minimises the distortion caused by grid fault
- Substantially less costly than alternative hybrid solution



SCAN ME

MAIN CONTRIBUTION TO UN SDGs



MAIN CONTRIBUTION TO GREEN DEAL



STAFFAN NORRGA

Founder of SCiBreak and senior lecturer at KTH

"The support we have received from EIT InnoEnergy, not only financially but also in terms of access to network and advisors with many decades of experience, has been extremely valuable for getting us where we are today."



JOHAN SÖDERBOM

Thematic Field Leader, Energy Storage & Smart Grids

"EIT InnoEnergy engaged with SCiBreak at a very early stage. We realised the potential of their invention to become a global and scalable solution, which could provide a more reliable power transmission for grids, with more capacity and wider reach."



Building integrated solar roofs and a virtual power plant

230k

HOUSEHOLDS WITH ACCESS TO ENERGY (ACCUMULATED UNTIL 2030)

4.1 TWh

CLEAN ENERGY GENERATED (ANNUALLY BY 2030)

€206M

ENERGY SAVINGS (ANNUALLY BY 2030)

3.3M tCO₂

EQUIVALENT EMISSIONS AVOIDED (ANNUALLY BY 2030)

CHALLENGE TO BE SOLVED

There is a requirement to offer an aesthetic and effective alternative to the traditional installation of solar panels on top of a roof.

THE SOLUTION

The company has successfully developed the technology, obtained safety certificates and gained experience installing 100 roofs in Poland and Sweden. The system can be used both on smaller houses as well as on roofs and facades of larger industrial buildings.

VALUE PROPOSITION

- The most efficient solution in kW/m² terms
- The lowest carbon footprint in the world in its class
- In the near future SunRoof will become a Virtual Power Plant with customers' roofs becoming DERs (Distributed Energy Resources)



SCAN ME

MAIN CONTRIBUTION TO UN SDGs



MAIN CONTRIBUTION TO GREEN DEAL



LECH KANIUK
CEO SunRoof

“We are very happy to have EIT InnoEnergy as our investor. They have brought in much more than capital, including the acceleration of our international network and an understanding of the energy landscape. Thanks to EIT InnoEnergy, we have found partners, suppliers, possible grants and potential acquisition targets. They have also given us the chance to participate in the discussion regarding European Green Deal and Polish Recovery Plans.”



SZYMON KWIATKOWSKI
Business Creation Manager

“From the beginning of EIT InnoEnergy’s engagement with SunRoof we have been pushing each other further and further to achieve the most ambitious milestones. With the joint effort, we managed to go through another successful VC financing round and made SunRoof’s BIPV solution available on a number of new markets. Working with such an experienced team is both extremely rewarding and demanding. I truly believe that SunRoof will become a unicorn that will massively impact distributed green energy generation. And that is what makes our support so rewarding.”



**JAVIER
SANZ**

Thematic Field Leader,
Renewable Energy

“Society is acknowledging that we are in a very critical moment, and therefore there is a need for a strong reaction to tackle the climate crisis. An increasing number of countries and economical regions are committing to reach climate neutrality by 2050, thereby limiting the rise in global temperatures to 1.5°C. As a fundamental pillar of this effort, renewable energies will play a major role, not just because they positively impact the electricity CO₂ footprint, but because the need to decarbonise other industrial sectors through an increase of electrification will boost the demand for their deployment.”

Renewable Energies

Renewable energy sources play an essential role in reducing dependence on fossil fuels and creating energy autonomy.

We are encouraging innovation that:

- Improves the production, penetration and profitability of renewable energy
- Continues to develop all forms of solar technology
- Improves reliability, accuracy and integration of onshore and offshore wind
- Increases performance, lifespan and scalability of wave power

Challenges

- To continue lowering LCOE as this is the main driver for competitiveness
- Incorporating recycling of materials as a way to overcome shortages for critical materials and to improve greenish image
- Extension of life and decommissioning for mature technologies (i.e. wind, solar...)
- Consolidate market entry for new technologies (i.e. floating wind, ocean energies...)

MAIN CONTRIBUTION TO UN SDGs



MAIN CONTRIBUTION TO GREEN DEAL



Hydro



Neutral



Tidal



Wave



Solar Thermal



Wind



PV



COMPANY	COUNTRY	SDG 7	SDG 8	SDG 9	SDG 11	SDG 12	SDG 13	GD 1	GD 2	GD 3	GD 4	GD 5	GD 6	GD 8
Swedish Algae Factory	Scandinavia	●	●	●		●	●	●	●	●		●	●	●
SOLEAN	France	●	●	●	●	●	●	●	●	●	●			●
STEADYSUN	France	●			●	●	●	●	●			●		●
Vertequip S.A.	Portugal		●	●				●	●	●	●			
Nnergix Energy Management, S.L.	Spain	●		●			●		●	●		●		
Principle Power	Portugal	●		●	●	●	●	●	●	●		●	●	
Nabrawind Technologies	Spain	●	●	●			●	●	●	●		●	●	
Minesto AB	Sweden													
EasySolar	Poland	●	●		●		●	●	●	●	●	●	●	●
Solar Dew Clean Waters	The Netherlands	●	●		●	●		●	●	●		●		
CorPower Ocean	Sweden	●	●	●	●	●	●	●	●	●		●	●	
ROSI	France	●		●		●	●	●	●	●		●		
Bladelsight (ProDrone)	Portugal	●		●	●		●	●	●	●	●	●		
Solaris Offgrid (Eternum)	UK	●	●											
Sunaitec	Portugal	●	●	●	●	●	●	●	●	●	●	●		
Smartive (Itestit)	Spain	●	●	●			●	●	●	●		●		
Fibersail Holding B.V.	The Netherlands	●	●	●			●	●	●	●		●		
Peafowl Solar Power	Sweden	●			●	●	●		●		●	●		
Mpower Ventures AG	Switzerland	●	●	●	●	●	●	●	●	●		●		
X1 Wind	Spain	●	●	●	●		●	●	●	●		●		
Dracula Technologies	France	●	●	●	●	●			●	●	●	●		●
QUANTOM	France	●		●	●		●	●	●	●	●	●		
ecoligo GmbH	Germany	●	●	●	●	●	●	●	●	●	●	●		
WTS	Germany	●					●	●	●					
Compact Solar	The Netherlands	●	●		●		●	●	●		●			
AERSpire B.V.	The Netherlands	●		●	●		●	●	●		●	●		



Advanced wind technologies that boost the wind of change

€16M

FUNDS RAISED
(ACCUMULATED UNTIL 2020)

510 GWh

CLEAN ENERGY GENERATED
(ANNUALLY BY 2030)

42%

FEMALE
(ACCUMULATED UNTIL 2020)

255k tCO₂

EQUIVALENT EMISSIONS AVOIDED
(ANNUALLY BY 2030)

CHALLENGE TO BE SOLVED

New wind farm emplacements are for areas of low force wind. However, the best wind is located at 200 metres, so taller towers must be constructed. They present a challenge from a logistic and economical point of view.

THE SOLUTION

Nabralift combines a light but rigid steel structure with a self-erecting system. This way, Nabralift solves significant logistical constraints as they can be transported in standard trucks. It also offers a cost-effective option since it avoids the requirement for tall cranes and reduces the foundation required. All in all, Nabralift saves up to 20% in costs when compared with alternative solutions such as concrete hybrid towers.

VALUE PROPOSITION

- Foundation cost reduction of up to 65%
- Installation rate of one tower every four days
- 15m/s average speed reduces inefficiency by up to 50%
- Maintenance-free
- Total cost reduction of up to 20%



SCAN ME

MAIN CONTRIBUTION TO UN SDGs



MAIN CONTRIBUTION TO GREEN DEAL



ENEKO SANZ

General Manager at
Nabrawind Technologies

“EIT InnoEnergy was more than funding during the Innovation Project and is more than an investor right now. It is a fully committed partner. The demanding initial audits meant that we had to strengthen the project. Currently, their involvement in our Board of Directors is really appreciated by all the shareholders. Specifically, Mr Javier Sanz offers his experience in the sector. EIT InnoEnergy's long-term vision means they are a reliable and trustworthy partner.”



JAVIER SANZ

Thematic Field Leader
Renewable Energies

“Nabrawind has two innovative solutions that will enable cost reductions, boost the energy yield and reduce the CO₂ footprint for large wind turbines. Along this journey, EIT InnoEnergy has Nabrawind with our holistic approach providing not just funding, but commercial support, governance, internships and lobbying at EU level.”



Clean energy from our oceans

€50.4M

FUNDS RAISED (ACCUMULATED UNTIL 2020)

52

JOB'S CREATED (ACCUMULATED UNTIL 2020)

2.5M tCO₂

EQUIVALENT EMISSIONS AVOIDED (ANNUALLY BY 2030)

13

NATIONALITIES (ACCUMULATED UNTIL 2020)

The ocean forms one of the largest, yet least explored, renewable energy sources on earth. CorPower brings a new class of high-efficiency Wave Energy Converters (“WECs”) to the market, enabling robust and cost-effective harvesting of electricity from ocean waves.

CHALLENGE TO BE SOLVED

Commercially available wave energy resources constitute ~500GW, which covers just 10% of global electricity consumption. Wave energy is a balancing source that enables a high penetration of wind and solar at the lowest electricity system cost.

THE SOLUTION

The CorPower Wave Energy Converter (WEC) can produce five times more electricity per tonne (>10MWh / tonne) than any other known wave technology. It combines storm survivability with strongly amplified power capture in regular sea conditions. Obtaining large amounts of electricity from a small device significantly reduces capital expense (capex). The compact lightweight devices are also less costly to transport, install and service, bringing down operating expense (opex).

VALUE PROPOSITION

- The world’s most effective wave energy converter proven at sea
- Physics supporting highly-competitive levelised cost of electricity (LCOE), verified through step-by-step approach
- Key enabler for the transition to 100% renewables — by natural grid balancing
- A dedicated and experienced team
- Market pull — sector-leading customers engaging with the aim of developing utility and off-grid projects
- Offering attractive funding mix with high leverage on private equity invested



SCAN ME

MAIN CONTRIBUTION TO UN SDGs



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PATRIK MÖLLER
CEO CorPower

“EIT InnoEnergy has been instrumental for CorPower’s journey. From the very first years on the EIT InnoEnergy Highway incubator programme to later stages where the industrial network and financial support has been essential to allow the team to transform tomorrow’s technology into today’s renewable energy market. EIT InnoEnergy provided a quality stamp that was very helpful to attract additional investors and industrial partners. Being part of the EIT InnoEnergy ecosystem has provided a favourable context for CorPower to grow.”



OGUZHAN ERIM
Strategic Asset Manager

“CorPower is one of the great EIT InnoEnergy success stories. We have believed in CorPower’s ability to create a disruptive technology and invested in the company right from the beginning in 2012. Wave power is a huge untapped resource for renewable energy production and an excellent complement to other types of renewable energy production. We look forward to the continued journey and are convinced that CorPower can play a significant role in the evolving sustainable energy mix and contribute to the European decarbonisation targets.”



**LUCIENNE
KROSSE**

Thematic Field Leader,
Energy Efficiency &
Sustainable Cities
and Buildings

“To realise the climate goals, acceleration of the refurbishment of existing buildings is imperative. More systemic, scalable, and bankable solutions are needed with a clear focus on the customer needs. Not only to accelerate refurbishment rates but also to improve the livability, accessibility and affordability of living in cities.”

Sustainable Cities and Buildings

40% of the world's energy is consumed in the built environment, accounting for ca. 36% of the global CO₂ emissions. The building stock in the EU is relatively old, with more than 40% of it built before 1960 and 90% before 1990. Older buildings typically use more energy than new buildings and are less comfortable to live in. Energy efficient buildings and cities are key to sustainable development.

We are fostering innovation that:

- Enables burden-free refurbishment
- Enables affordable, energy-positive buildings
- Encourages energy-saving behaviours at home and at work while at the same time improving personal well-being
- Supports a smart and sustainable transport system
- Enables livable, accessible, and affordable sustainable cities

Challenges

- Affordable, decarbonisation and self-consumption systems for buildings
- Scalable, burden-free refurbishment systems
- Industrialisation and modular construction
- Digitalisation, intelligence and personalisation services
- New customer-centric business models overcoming barriers such as high capex, complexity and unclear liabilities

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Intelligent room control for your hotel

80

JOBS CREATED (ACCUMULATED UNTIL 2020)

31%

FEMALE (ACCUMULATED UNTIL 2020)

19.2M €

ENERGY SAVINGS (ANNUALLY BY 2030)

CHALLENGE TO BE SOLVED

Unoccupied rooms in hotels are often heated or cooled throughout the day. This leads to unnecessarily high levels of energy use, carbon emissions and phenomenal heating bills.

THE SOLUTION

Betterspace offers the perfect, easy-to-install software for various areas of application in the hotel industry. The software connects to hotel software and regulates heating and air conditioning automatically, comfortably controlling light and blinds, and supporting electro mobility with an EV charger. Detection of open windows is possible without window contacts, and an overview of all integrated rooms is possible via a manager web portal.

VALUE PROPOSITION

- Increases guest comfort
- Lowers carbon emissions and protects the environment
- Reduces energy costs by up to 31%
- Reduces operating costs
- Specialised for the hotel industry
- Wireless communication



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BENJAMIN KÖHLER

Managing Director
Betterspace

“Right from the beginning the cooperation with EIT InnoEnergy was based on partnership and professionalism. Betterspace has benefited greatly from EIT InnoEnergy’s experience and network over the past years. In addition to the financial aspect, we appreciate the openness and networking opportunities with other portfolio companies that EIT InnoEnergy provided. We are looking forward to further cooperation to achieve our ambitious goals in the field of digitalisation and energy efficiency until 2030.”



LUIS SPERR

Business Creation
Manager

“We’re looking at a very successful partnership with Betterspace dating back to 2015. Since then EIT InnoEnergy supported the company in the development and commercialisation of their energy efficiency and digitisation product suite that is today a crucial cornerstone of their offering. As the saying goes, “no funding no play” access to finance is another important point where EIT InnoEnergy was able to assist. One key moment was connecting Betterspace to Statkraft Ventures, who then became the lead investor for Betterspace’s series A financing round in 2019.”



Save up to 32% heating energy and CO₂ with fully automated radiator thermostats

33

JOBS CREATED (ACCUMULATED UNTIL 2020)

53M €

ENERGY SAVINGS (ANNUALLY BY 2030)

31%

FEMALE (ACCUMULATED UNTIL 2020)

333 KTCO₂

EQUIVALENT EMISSIONS AVOIDED (ANNUALLY BY 2030)

CHALLENGE TO BE SOLVED

Some 70% of the overall energy consumption of buildings is related to the generation of room heating. While these rooms are not used up to 80% of the time, they are still heated non-stop. This results in huge potential for energy, cost and CO₂ savings!

THE SOLUTION

vilisto allows companies and municipalities to effortlessly achieve the highest energy consumption savings available on the market, without requiring a change in user behaviour or manual programming. This is achieved using an AI-based radiator thermostat with integrated presence detection that learns and anticipates user behaviour to control heating usage automatically. The connected online platform enables central and efficient management of the property portfolio.

VALUE PROPOSITION

- Saves up to 32% heating energy and CO₂ emissions
- Immediate climate protection effect
- Amortisation in a short time (RoI: 1-5 years)
- Works fully automatically and is self-learning (no programming or app required)
- Digitising heat management through a connected online platform
- Online platform enables remote system settings



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MAIN CONTRIBUTION TO UN SDGs



MAIN CONTRIBUTION TO GREEN DEAL



CHRISTOPH BERGER

CEO vilisto

"EIT InnoEnergy has been supporting vilisto since 2016 as a strong partner sharing the same vision. Access to a great European network connecting people and organisations across countries allowed us to explore and expand our business deeper and will have a great impact on our further development. We are very happy to have such a strong shareholder on board."



FABIAN SACHAROWITZ

sp. Business Creation Officer
GERMANY

"EIT InnoEnergy has supported vilisto from the beginning through various investment rounds. Even more crucial, however, was to permanently challenge vilisto's strategy. For example, EIT InnoEnergy strongly promoted vilisto towards the ultimately successful pivot towards the B2B market."



**JENNIFER
DUNGS**

Thematic Field Leader,
Energy for Transport
and Mobility

“Mobility and transport are responsible for more than 25% of all man-made CO₂ emissions — and is one of the few sectors in which emissions are still growing due to increasing demand. The good news is that there are several technologies in development, in the areas of zero-emission drivetrain, transport infrastructures, and energy systems. A win-win for our planet and those who ‘move’ around on it”

Transportation & Mobility

The transport and mobility sector is responsible for about 1/3 of Europe’s energy consumption and 1/4 of overall greenhouse gas emissions.

To challenge this we are fostering innovations in:

- Zero-emission drivetrain
- Autonomous driving technology
- Innovative transport concepts
- Energy provision infrastructure
- Mode-shifting new mobility services

Challenges

· Today the strategies of the big OEMs are still evolving in terms of what technologies will be prioritised, and of those, which will be developed in-house and with which partners (including start-ups), and this creates a challenge in terms of guiding the start-ups toward the right strategy of commercialising their technology

· Several trends in mobility are starting to accelerate, including shared micromobility which requires a mobility behavioural change — and as these changes occur, there is still uncertainty on how the exact use-cases as well as the business models (e.g. subscription models) will develop

· One important element of the mobility transition is digitalisation and mobility services. These technologies will help to improve efficiency as well as user experience but it can be a challenge with knowing the extent of required integration (HW/SW) for the different applications

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E-drive systems



Last-mile people and goods transport



ONO



Electric charging and hydrogen infrastructure

cacharge

CURRENT



the eCloud company



Shared vehicle & shuttle and mode-aggregation services



GET HENRY



illicov



pamyra

COMPANY	COUNTRY	SDG 7	SDG 8	SDG 9	SDG 11	SDG 12	SDG 13	GD 1	GD 2	GD 3	GD 4	GD 5	GD 6	GD 8
ONO Motion	Germany			●	●		●		●					●
Scoobic	Spain	●	●	●	●	●	●	●	●	●	●	●	●	●
LLEWO (Gas2Move)	Spain	●	●	●	●		●	●	●	●		●		●
HySiLabs	France	●		●	●	●	●	●	●	●		●		●
Illicov (La Roue Verte)	France				●		●	●	●			●		●
Ducktrain (DroidDrive)	Germany		●	●	●	●	●	●		●		●		●
Henry Mobility	Germany			●	●	●	●	●						●
Kumpan Electric (e-bility)	Germany	●	●	●	●		●	●	●	●		●	●	●
Navlandis	Spain		●	●	●	●	●	●		●		●		●
CaCharge AB	Sweden	●	●	●	●	●	●	●	●	●	●	●	●	●
Atawey	France	●	●	●	●	●	●	●	●	●		●	●	●
MOB-ENERGY	France	●	●	●	●	●	●	●	●	●	●	●		●
Elaphe	Slovenia	●	●	●	●	●	●	●	●	●		●	●	●
The eCloud Company B.v.	Belgium	●			●	●	●	●	●		●			●
DUCKT OU	Estonia	●		●	●	●	●	●	●	●	●	●		●
Smartmonkey Scalable Computing SL	Spain		●	●	●	●	●	●				●		●
GLEAM Technologies GmbH	Austria	●	●	●	●	●	●	●	●	●		●		●



Dock.Lock.Charge.

31%

FEMALE (ACCUMULATED UNTIL 2020)

1M tCO₂

EQUIVALENT EMISSIONS AVOIDED
(ANNUALLY BY 2030)

€3M

ENERGY SAVINGS (ANNUALLY BY 2030)

CHALLENGE TO BE SOLVED

Cities and citizens need an organised public space. Sharing companies need to lower their costs and increase profitability and fleet availability in order to survive. New regulations make scooter parking available in certain areas only with less free float.

THE SOLUTION

DUCKT helps organise public space, lower operational costs and create a better experience for Mobility-as-a-Service (MaaS), with a plug and play universal adaptor and Internet of Things (IoT) charge solution. Dock.Lock.Charge—as simple as that.

VALUE PROPOSITION

- High-quality docking and charging stations with unmatched ease of use
- Shared, authority, or personal
- Any model, any make
- Now, bike and scooter sharing can use one unified infrastructure solution
- Efficient, universal and simple
- IaaS (Infrastructure as a Service) business model creates new revenue streams for cities while providing green and organised solutions



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ÇAĞRI SELÇUKLU

CEO & Co-Founder at DUCKT

"When we first met EIT InnoEnergy in Istanbul, we were still early-stage. Yet, we found in EIT InnoEnergy's a partner willing to support us when we felt ready to take the next step. EIT InnoEnergy's solid corporate approach, clear communication and extensive network have helped us to live up to our motto 'to do better' day by day. We regard this unique partnership one of the key special ingredients that defines DUCKT."



LUKASZ SKARKA

Business Creation Manager

"I met DUCKT two years ago, while working on their prototypes. It was already clear then that the passion in the eyes of the founders would lead the team towards great things – aiming to set the universal standard in sustainable, citizen-centric micromobility. Having helped DUCKT to gain traction in the US and France through network building and fundraising, I am certain we are experiencing something magnificent happening right in front of our eyes."



Eco-sustainable transport operator

€9.3M

FUNDS RAISED (ACCUMULATED UNTIL 2020)

18

TOTAL NATIONALITIES
(ACCUMULATED UNTIL 2020)

1,575

JOBS CREATED (ACCUMULATED UNTIL 2020)

Llewo (Gas2Move) is a last-mile delivery company with vehicles powered by ecological fuels (natural gas, biogas, hydrogen and electricity). We operate daily routes of our clients for the delivery of their merchandise with our own 100% ecological fleet and personal staff.

CHALLENGE TO BE SOLVED

The companies see in a clear way that the future of the industrial vehicles fleet will have an important presence in the NGV propulsion sector. The big city councils have accelerated the implementation of regulations that hinder and impede the entry of industrial vehicles powered by gasoline or diesel. In addition, the companies for which our clients work are demanding a migration to alternative fuels and are concerned with the environment.

THE SOLUTION

Professionalisation of the service, smart urban delivery and commitment to the environment.

VALUE PROPOSITION

- Our fleet of 100% ecological vehicles (mainly natural gas less than 1 year old)
- All drivers (SR) that belong to the Gas2Move company
- A Service Quality Manager (QSM) for each geographical area where we operate, who is in charge of guaranteeing the efficient and effective provision of the service and fulfilling the established commitments
- The "Green Wheels" platform, resource management software that optimises the service and finally periodic reports that show clients the savings in CO₂ emissions



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JAVIER BALLESTEROS
CEO & CO-FOUNDER
at Llewo

"Having EIT InnoEnergy as a shareholder has allowed us to promote and develop our strategy of commitment to a sustainable mobility solution in the last mile, thanks to their reputation and connections to important players in our sector and experience in the acceleration of new projects in the energy transition field."



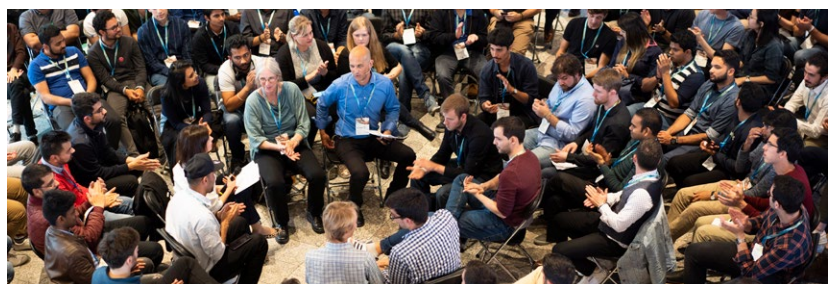
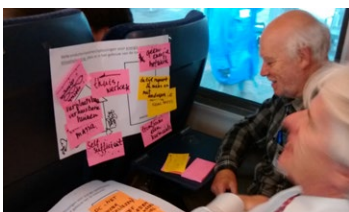
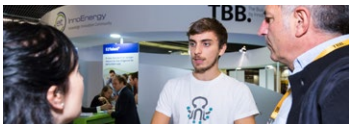
JOSEP MIQUEL TORREGROSA
Business Creation Officer
IBERIA

"We started supporting Llewo (Formerly Gas2Move) when it was little more than an idea and we initially focused on adding value in the definition of the strategy and professionalisation of management, definition of the business model and positioning within the sector. We are very happy to have contributed from the beginning to the creation of a company that aims to transform distribution into the most sustainable and generate quality jobs."

64 Thank you

The strength of EIT InnoEnergy is our trusted ecosystem. We would like to thank all the members of the network for their contribution. Without them this wouldn't have been possible.





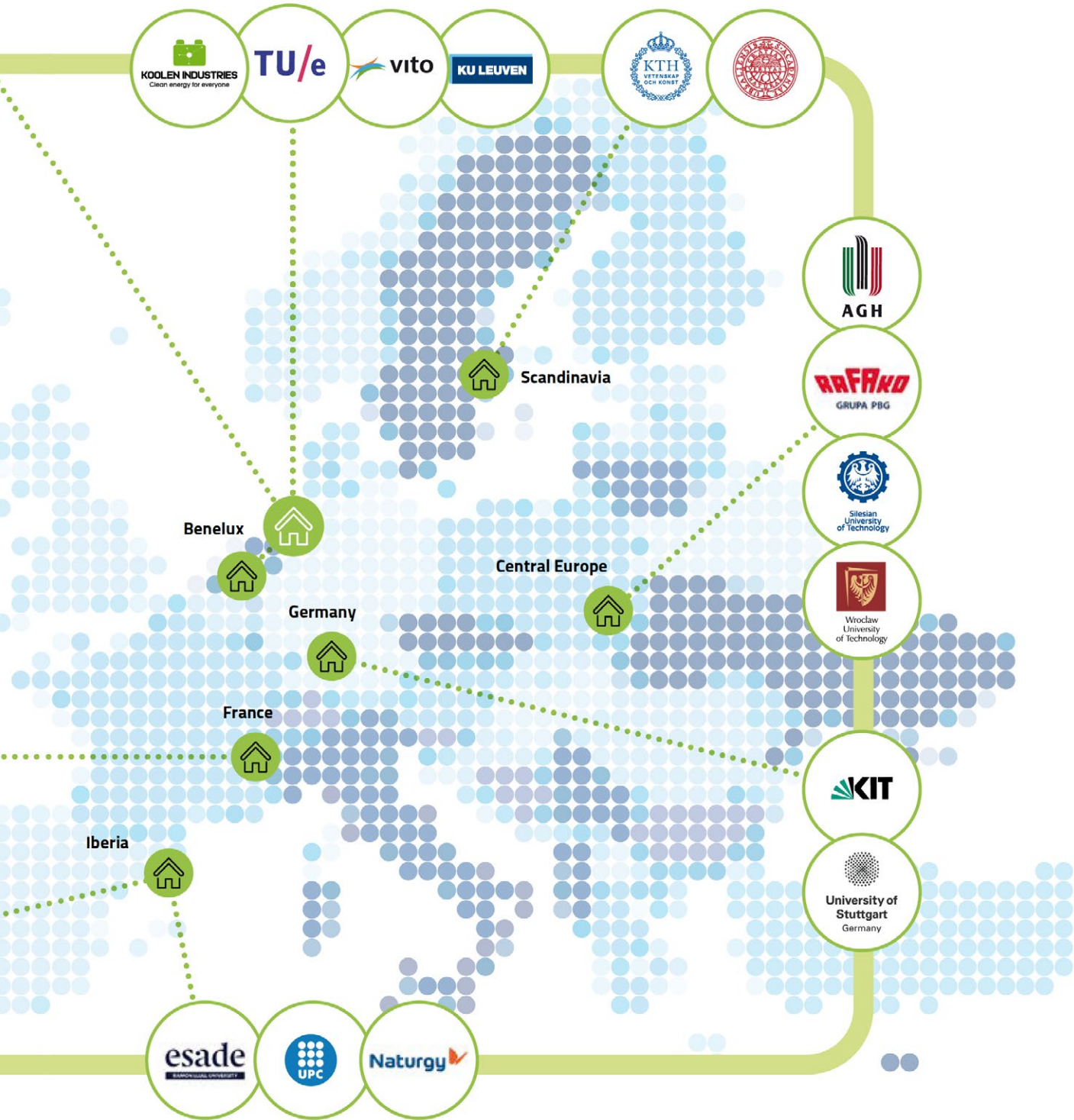
BUILDING GLOBAL CONNECTIONS

Our strength comes from our wide network of partners, including our 23 shareholders. They are our experts, our service providers, the early adopters of innovative solutions, and the employers of our graduates.

This ecosystem was enhanced further in 2020 with our official expansion into the United States, opening transatlantic opportunities for sustainable energy commercialisation and collaboration.

By dismantling barriers to innovation, we are spurring a wave of new sustainable energy technologies in areas such as offshore wind, storage, and e-mobility.







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