



Image courtesy of Theo van Rensen,
TBB Photo Contest



Engineering innovation

A sustainable energy future for Europe

Dominika M. Bucová

EIT InnoEnergy Hub CZE (DEX Innovation Centre)

10.03.2021



Creating energy that's sustainable in every sense



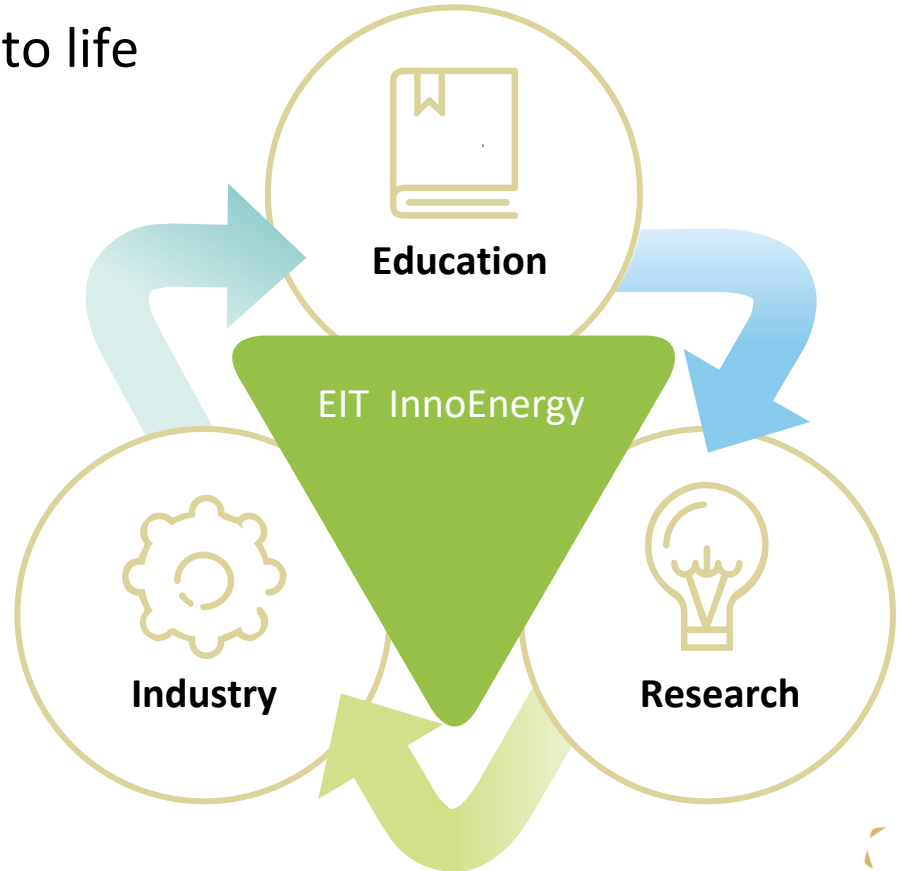
Accelerating sustainable
energy innovations



Supporting EIT InnoEnergy
activities
as Hub in the Czech Republic
since 2019

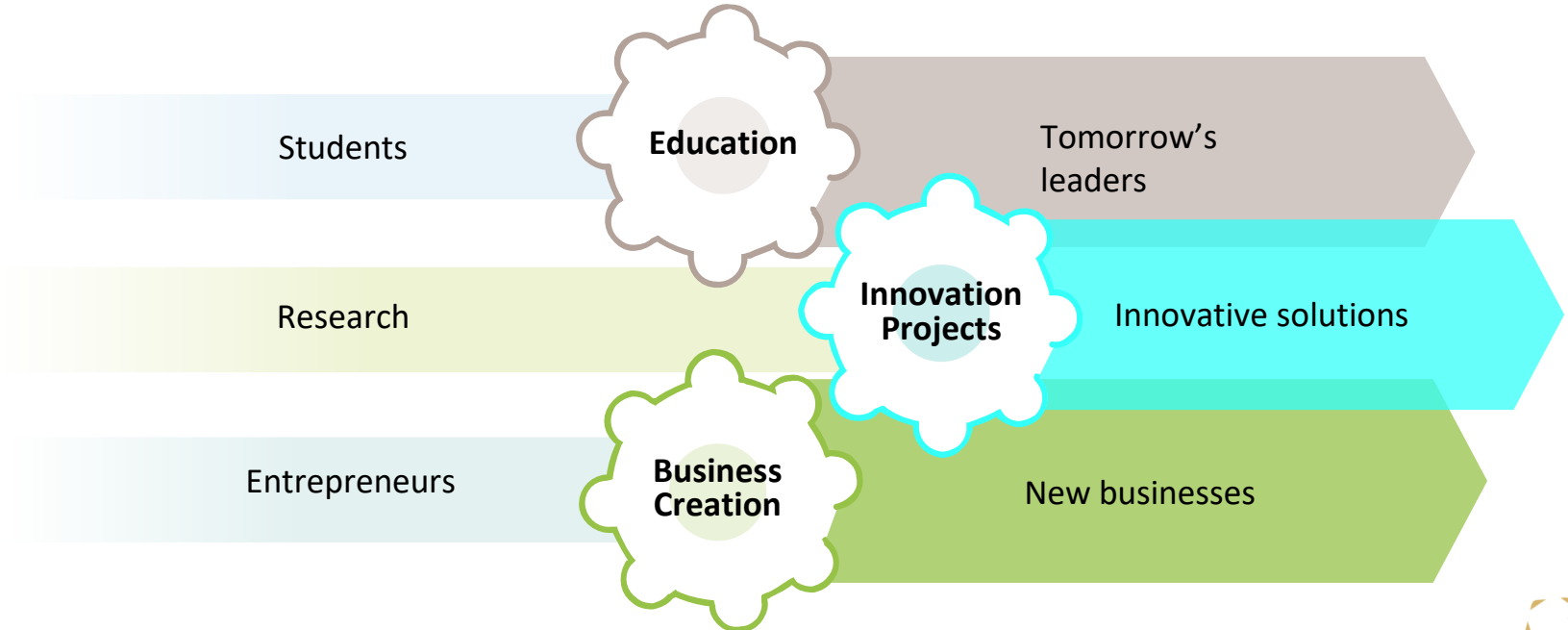
Bringing the *Knowledge Triangle* to life

- Strengthen EU innovation
- Creates tomorrow's entrepreneurs
- Increases sustainable growth
- Encourages global competitiveness



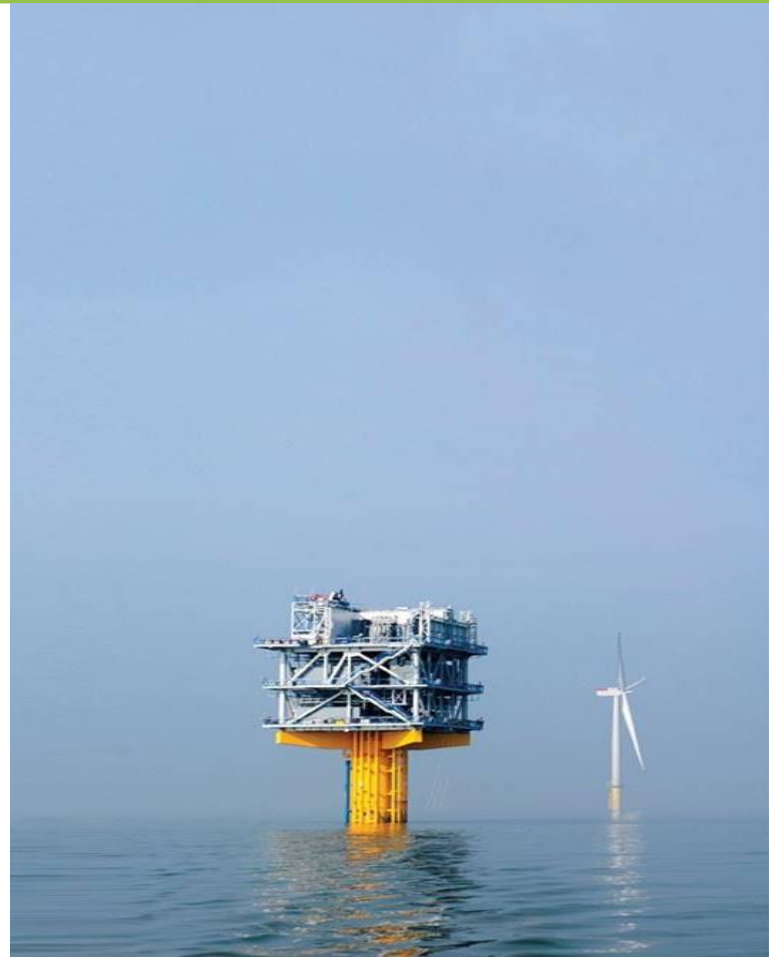
The Innovation Engine for Europe

EIT InnoEnergy



Our goal: sustainable energy

- ✓ **Ensure security and safety of supply**
- ✓ **Reduce costs in the energy value chain**
- ✓ **Reduce CO₂ emissions**
- ✓ **Improve European competitiveness**
- ✓ **Remove barriers to innovation**
- ✓ **Encourage sustainable growth**
- ✓ **Create jobs**



Thematic fields and technology focus



Energy for Circular Economy



Energy storage



Energy efficiency



Energy for Transport and Mobility



Renewable energies



Smart and efficient buildings and cities



Smart electric grid



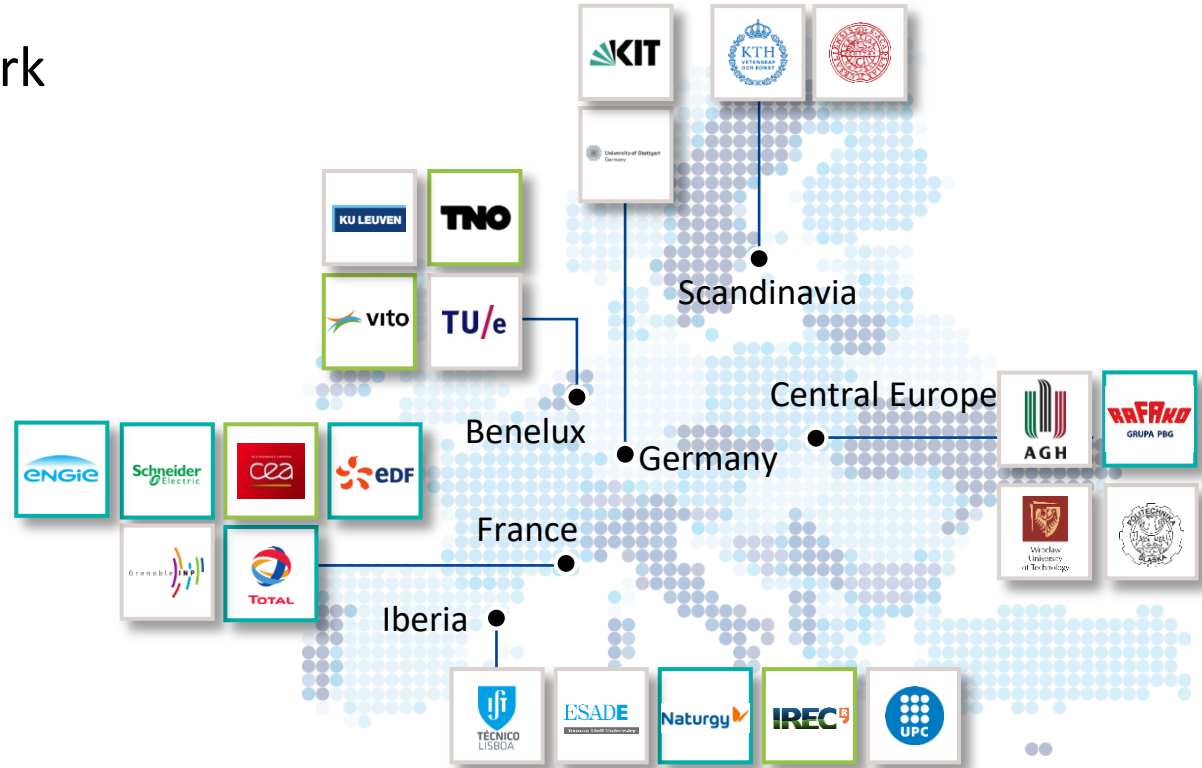
Nuclear instrumentation

Making connections: the power of the network

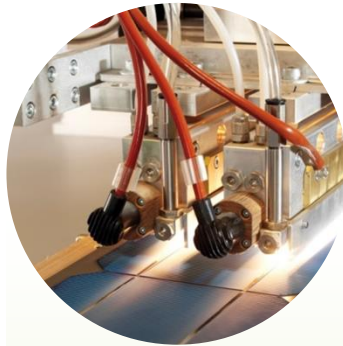
- ✓ 6 regional offices
- ✓ 23 shareholders
- ✓ 500+ additional partners
- ✓ Activities in 17 countries

Our Shareholders

-  Research Institutes
-  Universities
-  Industry Partners
-  Regional offices



For every stage of the innovation journey



Innovators



Start-ups &
Scale-ups

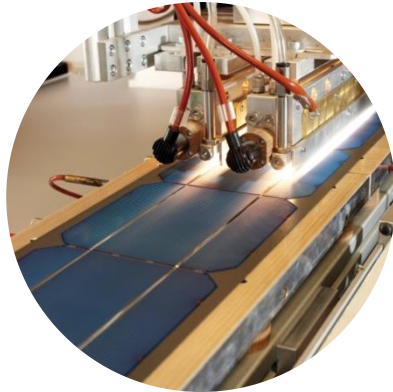


Students &
Learners

Innovators

Connecting ideas and industry, innovators and business partners

Simplifying the journey from lab to launch



Partners, skills and resources



Market needs and potential customers



Shorten time to market



Financing and investment



A commercial product in 5 years

Expanding the circle of innovation in Europe's energy sector

Application Criteria

3-7 partners

Innovator

Commercialising partner

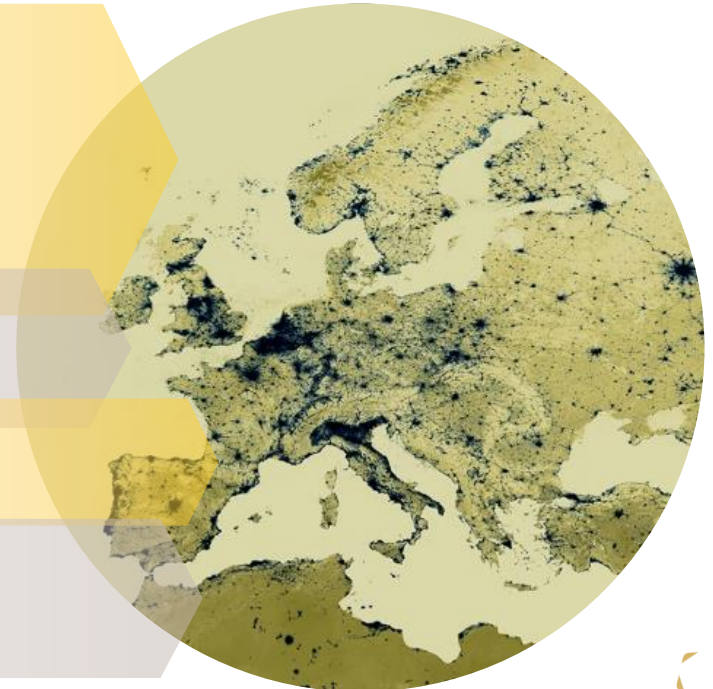
First customer or early adopter

EIT InnoEnergy formal or associate partner

Two or more EU countries

A commercial product in 5 years

Technology Readiness Level greater or equal to 5 (TRL \geq 5)



Open opportunities

EIT InnoEnergy Investment Round (Innovation Projects)

- deadline: 15.03.2021, 23:59
- more information: <https://investmentround.innoenergy.com/how-to-apply/>

Start-ups & scale-ups

Highway®



Beyond
Acceleration

For startups at developing stage

- Proven **prototype or proof of concept**
- Market ready within **1,5 – 2 years**
- Consolidated and **devoted team**
- Ready prototype/ almost finished prototype
- Defined business model

Organized on European level

Open all year

<https://bc.innoenergy.com/for-start-ups/>

EIT InnoEnergy Assets



Lightweight, cost-effective and powerful energy storage system



Conversion of wet sludge and pulp/paper waste into clean bio-coal



Low-cost decentralized biogas production from biomass



Autonomous end-to-end power line inspections technology

PowerUp!Challenge Success stories CZE

2017: Via Alta

- Country Final: 1st place
- Grand Final: 3rd place
- www.via-alta.cz

2018: Neuron Soundware

- Country Final: 1st place
- Grand Final: 3rd place
- www.neuronsw.com

2020: Pocket Virtuality

- Country Final: 1st place
- Grand Final: 3rd place
- www.pocketvirtuality.com



Open opportunities

EIT Jumpstarter

- cross-KIC activity/program
- deadline: 16.4.2021
- For: idea phase startups/teams
- More info: <https://eitjumpstarter.eu/>

Highway

- deadline: all year
- For: startups
- More info: <https://bc.innoenergy.com/for-start-ups/>



Students & Learners

Connecting graduates and employers, researchers and industry



Combining technical knowledge and commercial awareness



Improve career prospects



Deepen the industry's talent pool



Encourage innovation and entrepreneurship



Increase competitiveness

Delivering smart people, skills and connections to Europe's energy sector

Educated individuals, engaged researchers, better business

Master's School

7 programmes
14 universities
3 business schools
10 countries
Lifelong community

PhD School

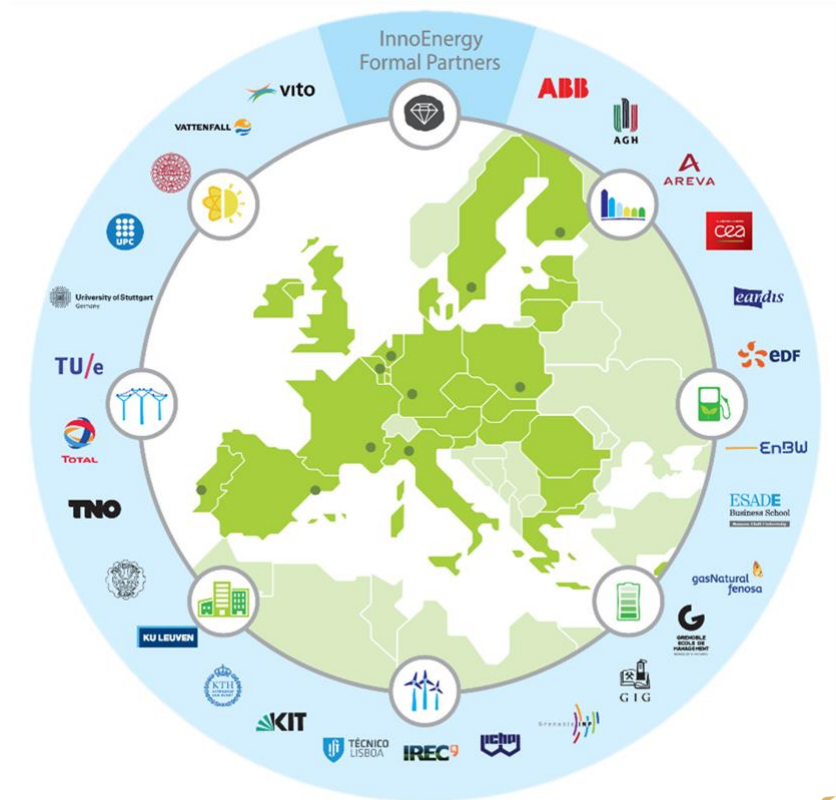
Customised training
Commercial disciplines
Access to partners' facilities
Business Creation services and Innovation Projects

Professional learning

EIT InnoEnergy offers courses for executive students and, through The Institute of Sustainable Energy (iSE), provides courses for professionals who want to advance their careers and companies that want to support continual learning for their employees. Visit: ise.EITInnoEnergy.com

It is not a typical school

- 14 technical universities
- The biggest Energy sector companies
- Innovation and entrepreneurship training
- Summer schools or internships
- Double degree



Thank you, any questions?

Dominika M. Bucová

EIT InnoEnergy Hub Czech Republic (DEX IC)

dominika.bucova@dex-ic.com +420 732 540 574

