

Energy in Brainport Eindhoven



Energy in Brainport Eindhoven

In Brainport Eindhoven you'll find a strong cluster of companies, knowledge institutes and governmental agencies that are active in the field of energy and the energy transition. They provide knowledge, test & integration facilities and business development for energy related services and products. Their overall focus lies in developing integral solutions. Making smart combinations is key here. The focus is on developing solutions and applications in the field of urban use, like solar for (heat)capture and electricity generation and a wide variety specifically for energy conversion and storage.



Our Strengths



Capturing and generation

Brainport Eindhoven is the leader in the smart use of solar energy, with an expertise in thin film photovoltaics. Our region delivers innovation that will impact our energy generation.



Conversion & storage

The next challenge is to store energy. Many knowledge institutes and businesses in Brainport Eindhoven work on the storage and conversion solutions of tomorrow. Together they have committed themselves to set out a roadmap and focus on CO2 neutral hydrocarbon fuels.



Energy consumption and applications

The energy transition is an important societal challenge with many different application forms. In Brainport Eindhoven, research and development are applied to many application areas and knowledge is always translated into market solutions for societal challenges. Varying from an energy neutral industry to farming and energy solutions for the urban area. Also, with our strong automotive industry, the road to smart and green mobility is short.

Meet our Ecosystem of Knowledge Institutes and Industry



Join Our Energy Ecosystem, like Others Did Before You

We have a strong network of knowledge institutes, that work together with important **industrial partners**, ranging from:

- Energy suppliers, like Shell, Eneco and Centrica
- Solar companies developing PV solutions, like Hanergy, Dyesol and Heliatek
- Materials, components and equipment manufacturing companies, like Bosch, Rexroth, DSM and Mastervolt.
- Product development companies for whom energy technologies enable their innovations, like Panasonic, Leydenjar Technologies and Royal Dahlman
- And many others like construction and technical installation companies.



Knowledge Institutes

Thanks to its progressive policies, affinity for innovation and forward-thinking and environmentally-conscious population, the Netherlands is a leader in offshore, renewable and smart energy. Committed to strengthening its already strong position in the global energy industry, the Netherlands offers world-class R&D facilities and outstanding incentive programs that support and stimulate energy innovation. In addition, the legacy of for instance Shell and Gasunie strengthen our knowledge base and international position in energy.



Energy Research Centre of the Netherlands



Strategic Area Energy of Eindhoven University of Technology



Dutch Organization for Applied Scientific Research



Research institute in thin-film solar cells



Dutch Institute for fundamental energy Research



Open innovation R&D centre in flexible electronics

Easy Access to R&D Turns Technology into Business

Energy research in Brainport Eindhoven is of an exceptional quality and companies can find **many R&D partner opportunities** with our numerous knowledge institutes.

Cooperating and sharing knowledge are in our DNA and form the basis for our characteristic open innovation. This implies close collaboration between knowledge institutes and businesses, offering **easy access to research and development**.

- Partnership model
- Cross fertilization between industry and academia
- Scientific research is closely tuned to industrial needs

This **accelerates the time-to-market** for new technologies and helps high tech entrepreneurs reach their goal within a considerably shorter amount of time: Turning Technology Into Business.

Besides that, researchers, developers and entrepreneurs can join existing international networks and innovation projects, led by leading R&D institutes such as Holst Centre and Solliance. When your company participate in these network you can **easily join the international networks of innovative and leading companies** incorporated into these projects.

TNO focusses on hybrid energy systems, combining different fossil and sustainable sources. TNO wants to employ innovations, both technical and non-technical, to accelerate the transition to fully sustainable energy supply.

- Dutch Organization for Applied Scientific Research
- ±3,000 employees
- 28 locations worldwide
- Scientific impact between 2011 and 2014: 97 patent applications, 7,325 publications and over 20,000 citations
- Some of TNO's energy goals:
 - A built environment that produces energy
 - Innovations for sustainable and clean road and water transport
 - The North Sea as an incubator for sustainable offshore energy
 - The integration of current energy systems
 - The subsurface as a source (geothermal energy) and buffer (CSS) of sustainable energy

Eindhoven University of Technology

TU/e

The strategic area Energy of Eindhoven University of Technology focuses on new technological solutions for societal problems like the exhaustion of fossil fuels, the harmful effects on the environment and climate change as well as the increasing need for energy from emerging economies.

- 400 TU/e researchers, 7 departments and 30 research groups are involved in Energy.
- Energy related topics are an integral part of the study of around 30-35% of TU/e students.
- TU/e has 2 Masters, 20 specializations and 1 designer program within the Energy domain.
- Eindhoven Institute for Renewable Energy Systems (EIRES)



Industrial partners:



Solliance



Solliance is a partnership of R&D organisations from the Netherlands, Belgium and Germany working in thin film photovoltaic (PV) solar energy, developing the latest PV technologies and making them available to companies.

- Joint venture of ECN, TNO, Holst Centre and Imec
- Goal: combining forces in the area of research into the next generation of solar cells.

Together with the academic partners Eindhoven University of Technology, University of Hasselt, Technical University Delft and Forschungszentrum Jülich, the research institutes can play a significant role in global research into the solar technology of the future.

Synergy is created by consolidating and coordinating activities of 250 researchers in industry, at research institutes and universities. Various state-of-the-art laboratories and pilot production lines are jointly used for dedicated research programs which are executed in close cooperation with the solar business community.

Partners in Solliance Solar Research:



Experienced and Reliable Suppliers and Contract-Manufacturers

Our high tech manufacturing industry delivers high quality solutions and products. As suppliers in Brainport Eindhoven are experienced in working for large multinationals like ASML, Philips and Océ, you can rely on their expertise. Also when energy applications are concerned, our contract manufacturers are ready to produce!

- VDL
- Meyer burger
- Prodrive Technologies
- Delta Electronics
- NTS Group
- Frencken
- Rexroth
- Eternal Sun
- CCM
- SolayTec
- Etc...



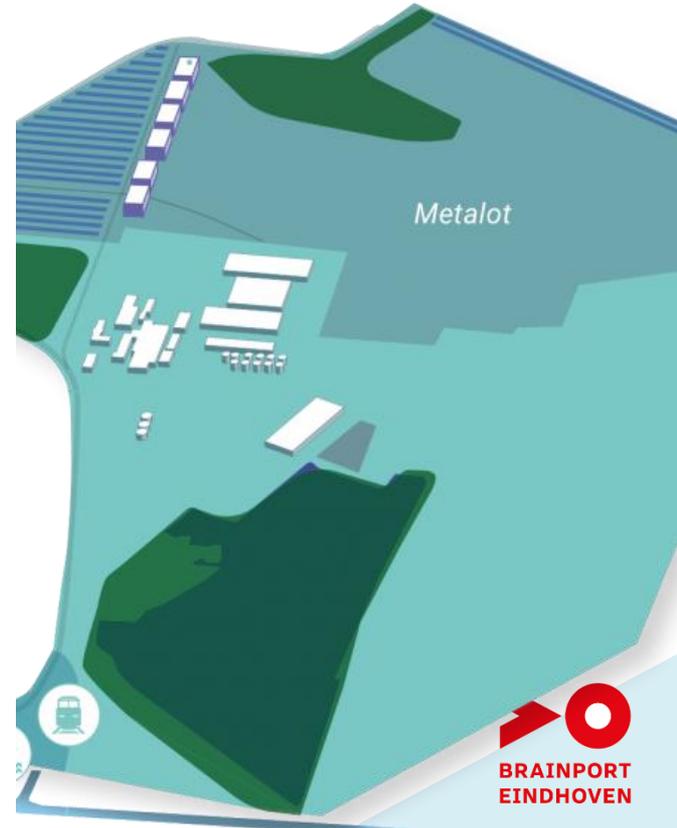
Our Infrastructure and Facilities Help You to Provide Tomorrow's Energy Solutions

Nyrstar Metalot hub

Metalot is a campus in development for circular use of metals and energy. The Nyrstar zinc factory wants to go from energy consumer to supplier; 100% energy-neutral. It provides wide-ranging facilities and many business opportunities by looking at how suppliers and customers can reinforce each other from a circular point of view.

Brainport Smart District

Brainport Smart District Helmond is a living lab space for futuristic living; an incubator for the society of tomorrow. It is going to be the smartest area of the Netherlands where all innovations come together: construction, sustainability, mobility, health, security and social cohesion.



What can Brainport Development do for you?

Brainport Development

Brainport Development is a new-style economic development agency, that works with representatives from industry, knowledge institutes and government to strengthen the Brainport top technology region. In cooperation with the Brabant Development Agency (BOM) and the Netherlands Foreign Investment Agency (NFIA) we provide Foreign Direct Investors with information and practical assistance free of charge.

Setting up your business without burdens

Brainport Development helps you set up your business in a fast, flexible and transparent manner. By:

- Providing you with all the information you need about the regional business climate
- Connecting and introducing you to a transparent network of reliable service providers
- Introducing you to our large and valuable network for the development of your core-business

How we help international companies set up their business

Our services, all provided on a confidential basis, include:

- Real estate search, providing insight and data on site selection and logistics strategies
- Personal guidance on matters such as available incentives, permit procedures, tax structures;
- Identifying the right talent and other human resource issues;
- Introduction to a variety of Dutch networks and service suppliers in business, to government authorities at national and regional levels, to academic and private sector consultants, and to others central to the investment process.
- Connecting you to customer segments that are relevant to your business
- All other aspects concerned in setting up your business.

Let us unburden you in setting up your business

You are invited to be part of the Brainport Eindhoven energy ecosystem. Do you have any questions or do you want to obtain more information about doing business in Brainport Eindhoven? Then please feel free to contact us at any time!

Rutger van Poppel
International business developer
r.voppel@brainportdevelopment.nl

LinkedIn:
<https://www.linkedin.com/company/brainport-eindhoven/>

