We do

We demonstrate and market the technical and economic opportunities of advanced power electronics to the Baltic Sea Region research and development ecosystem.

We support companies in developing their individual technology roadmap to take up advanced power electronics.

Thus, we help companies to implement advanced power electronics into their R&D strategies and investment planning.

Contact

Lead Partner

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Project Management

Sea Region

36 months (2016 – 2019) EUR 3.1 million budget

DSN – Connecting Knowledge









We address

Companies

Element and component producers, system providers, consulting and financing companies

Public Research Institutions

Universities, R&D institutions, technology and science parks

Public Authorities

Policy administration, regulatory bodies, business incubators, business development agencies



Power Electronics for Green Energy Efficiency - Green PE

17 research institutions, companies and technology transfer partners from the Baltic

 European Regional Development Fund: Interreg Baltic Sea Region programme
Led by University of Southern Denmark

Status: July 2017

www.balticgreenpower.eu

Green Power Electronics

Boosting efficiency in conversion, transmission and consumption of energy.

> LEARN MORE www.balticgreenpower.eu

Advanced power electronics (PE) is a key technology for developing next generation devices for efficient conversion, transmission and consumption of energy from renewable sources. Green Power Electronics accelerates the market uptake of advanced PE for companies in the Baltic Sea Region.

Advanced PE relies on new materials such as SiC (silicon carbide) or GaN (gallium nitride) which constitute the basis of innovative high performance semiconducting elements. Such elements are requested for the fabrication of efficient devices to be used under the harsh requirements of largescale renewable energy generators such as wind turbines. Integrated into, e.g. the power train of electric cars or the active feedback control of smart houses, this next generation power electronics leads to significant energy savings and enables sustainable energy consumption.

> Transferring knowledge about advanced PE from research to business is challenged by technical and economic barriers, as well as information gaps. Green PE mitigates these gaps by demonstrating technical solutions and economic potentials in power electronics. The project supports companies to adapt their business and innovation strategies to the new opportunities deriving from advanced PE.

Green Power Electronics provides a collaboration platform in the Baltic Sea Region for research institutions, established companies and innovative start-ups. It initiates training workshops, on-company demonstrations, as well as consulting and matchmaking events.



Demonstration pilots

Renewable energies E-mobility



Project partners

- University of Southern Denmark, Denmark (Lead partner)
- Applied Research Institute for Prospective Technologies, Lithuania
- CLEAN, Denmark
- Converdan A/S, Denmark
- Faculty of Engineering at Kiel University, Germany
- Kaunas Science and Technology Park, Lithuania
- Kaunas University of Technology, Lithuania
- Latvian Technological Center, Latvia
- University of Tartu, Estonia
- NATEK Power Systems AB, Sweden
- Polish Chamber of Commerce for Electronics and Telecommunications, Poland
- Renewable Energy Hamburg, Germany
- RISE Acreo AB, Sweden
- Sustainable Smart Houses in Småland, Sweden
- Ubik Solutions OÜ, Estonia
- University of Latvia, Latvia
- Warsaw University of Technology, Poland