



**Activities of Lublin Eco-Energy Cluster for development
of the SMART Specialization
– Renewable energy in Lubelskie Region**

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Lublin Eco-Energy Cluster

Cluster Partners

47 entities, include: 41 entrepreneurs, science and research units, academies, business support institutions, local government from Lubelskie, Świętokrzyskie, Mazowieckie and Wielkopolskie Region

Cooperation in the field of energy production (solar, wind, water and geothermal energy) and in the field of production and use biomass. Among partners there are: producers of machines and appliances, pellets and briquettes, designers and constructors of wind and photovoltaic farms. Another group consists of entities dealing with energy efficiency and construction of energy saving buildings



Mission

To support all possible activities related to sustainable use of renewable energy sources based on the potential of the Lubelskie Region through developing and implementing of technological, manufacturing and processing innovations, popularization of energy efficiency and energy-efficient buildings and to promote renewable energy sources in the region.



Cooperation with Business Incubator of Foundation for Lubelskie Development



With support of Business Incubator 30 companies in branches: renewable sources, energy efficiency, energy-saving buildings and IT technologies for energy sector will start business activities. New companies will be engage to direct cooperation with partners of the Lublin Eco-Energy Cluster.



Business Incubator of Foundation for Lubelskie Development

Business Incubator is equipped with the photovoltaic installation to produce electricity with a power of 30 kW. Photovoltaic panels are installed on the facades and the roof of the building. The installation is available for research of entrepreneurs from the Incubator and from the Lublin Eco-Energy Cluster (LEEC)

Specifications of Installation

Power generator: 30 kVA,
System: three-phase 400/230 (3/N/PE)
Monocrystalline panels: 162 pcs.

Specifications of individual sections

- 1) 42 panels power 275Wp (roof)
- 2) 60 panels power 195Wp (facade I)
- 3) 60 panels power 195Wp (facade II)





**Promotion of new technologies of energy production,
idea of energy efficiency and energy-saving buildings**

Co-operation with Targi Lublin SA

Lublin Eco-Energy Cluster is professional partner of Lublin Fair for ENERGETICS since 2008. This is the flagship fair event in Eastern Poland, bringing together the energy and construction sector.

Cluster activities:

- seminar organized by the Lublin Eco-Energy Cluster – the objective is to promote environmental –friendly innovation and new technologies related to the use of renewable energy sources, energy efficiency and energy-saving buildings among entrepreneurs, local governments, individual consumers and students;
- presentations of the Cluster offer at the fair stand.



Project „S3-Empowering for Innovation and Growth in Medium-Sized Cities and Regions (Emplnno)

Implementation period: 1.05.2016 – 30.04.2019

16 Partners

Germany – 2 Partners

Gesellschaft für Wirtschaftsund Technologieförderung Rostock mbH - Lider

Denmark - 2 partners; Poland - 3; Lithuania - 1; Latvia - Estonia - 2; Finland - 3;

Sweden – 2

29 Associated Organisations

Germany - 7, Denmark -1; Poland - 1 (IUNG PIB Puławy); Lithuania - 1; Finland - 3; Sweden - 8; Latvia - 7, Norway – 1

science and research units, academies, business support institutions, regional government

6 specialisations: ICT; Health & Life Science & Biotech; Maritime Industries; Food; Energy and Materials.

Foundation for Lubelskie Development is responsible for development of smart specialisations: Energy and Food. **Foundation is a lider of Work Package 3 smart specialisation Energy.**



Pojekt „S3-Empowering for Innovation and Growth in Medium-Sized Cities and Regions (Emplnno)

**WP3 – Empowering + exploiting transnational RIS3 priorities
Energy and Food Smart specialisation activities:**

Local level

- Organisation of 12 R+D transfer workshops
- Organisation of 8 company dating events;
- Organisation of 3 training courses on internationalisation, product commercialisation and cooperation with partners on the transnational level.

Transnational level

- Participation of experts in 4 transnational workshops
- Organisation of match making events for companies and regional stakeholders from the partner regions. One match making event will be organised during Lublin Fair for ENERGETICS in November 2017.



Consortia



Lublin Energy-Efficient House



Lublin Energy Agency

Clone agreement



The aim of the consortium Lublin Energy-Efficient House is successful development and dissemination of key product of Cluster: ecological energy-efficient house. Consortium offers design and construction of buildings.

www.ldee.pl





Lublin Energy Agency

The main aims:

- to support local governments and entrepreneurs from Lubelskie Voivodship in the organization and implementation of projects aimed at improving energy efficiency and energy production from renewable sources;
- identifies and promotes good practices related to the implementation of projects using renewable energy sources to produce electricity and heat as well as activities to improve energy efficiency by local governments and entrepreneurs;
- raising awareness of the region's residents about the benefits of technologies of renewable energy production and energy saving electricity and heat.

www.lae.org.pl



CLON agreement

The aim of the CLON agreement is to assess the possibility of adaptation in Polish conditions, crosswords genetic Clon 112 in vitro, and implementation of the plant in the industrial and agricultural production space.

Characteristics of the plant: in six years old has 16 m tall, straight trunk without knots, round, non-invasive - propagated in vitro, the size of the leaf up to 45 cm. 700 kg of honey with 1 hectare; with 1 tree - 0.5 cubic meters of wood; planting: 500 tree per hectare

www.oxytree.com





Lublin Eco-Energy Cluster offers:

- Consulting services in the field of renewable energy sources and improve energy efficiency for local government units and subordinate structures;
- preparation of applications, feasibility studies and documentation (projects of RES installations, energy audits) to programmes supported by structural funds and financed by national sources;
- organization of training concerning renewable energy, energy efficiency and energy-saving construction.



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