# SuPREM

**TWINNING FOR A SUSTAINABLE, PROACTIVE RESEARCH PARTNERSHIP IN DISTRIBUTED ENERGY SYSTEMS PLANNING, MODELLING AND MANAGEMENT**

**Period:** 36 months (Nov. 2015 - Oct. 2018)
**Budget:** 1 047 551 EUR
**Funding:** H2020-TWINN-2015

**General Objective:** Twinning for knowledge transfer in integrating energy technologies to create a long-lasting and effective partnership that will have a very significant impact on Poland's energy systems infrastructure.

**Specific objectives:**

- To understand Poland's unique energy requirements and develop a technical transition plan coherent with EU and national guidelines and targets.
- To create sets of technical scenarios (algorithms, specifications, and work schemes) optimised with respect to the management of production and consumption of different energy forms (electricity, heat, cold, fuels) in energy systems able to be easily customised for flexible local or regional development within Poland. To transfer all needed necessary knowledge for IMP-PAN to be able to lead Poland in energy system integration techniques and to greatly enhance the research capacity of IMP-PAN and its staff.
- To develop close, long-term relationships with SUPREME partners.
- To develop a Europe-wide network of relationships with key research groups and stakeholders in the field of energy systems integration to address networking gaps and deficiencies between the research institutions of the low performing Member States (Poland) and internationally-leading counterparts at the EU level.

AALBORG UNIVERSITY DENMARK

- *Energy systems scenario design and simulation*
- *Integration of building level and community level*
- *Experimental set-up and the operation*
- *Advanced energy systems analysis*
- *Electrical control methods*
- *Test bed facilities*

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- *Contributing logistical infrastructure for knowledge transfer and Connecting IMP-PAN with RES stakeholders (training and networking events , staff exchanges, conferences, Summer Schools)*
- *Providing networking access to its entire membership expert base*

UNIVERSITY OF TWENTE.

- *Transition Management and Legal Issues*
- *Building Collaboration in Energy Research Evaluation of Energy Technologies*
- *Human-Technology Systems.*
- *ICT control for Smart Grids*

IMP PAN

*Twinning one of Poland's best energy research centres, the Instytut Maszyn Przeplywowych Im Roberta Szewalskiego Polskiej Akademii Nauk with needed expertise for excelling in Integrated energy management systems*

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