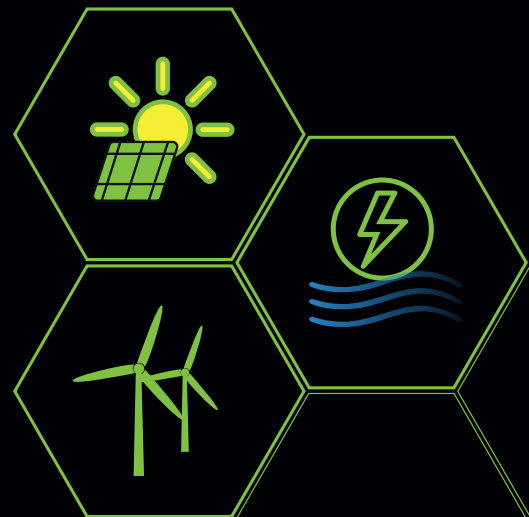




Łukasiewicz
Institute
of Electrical
Engineering



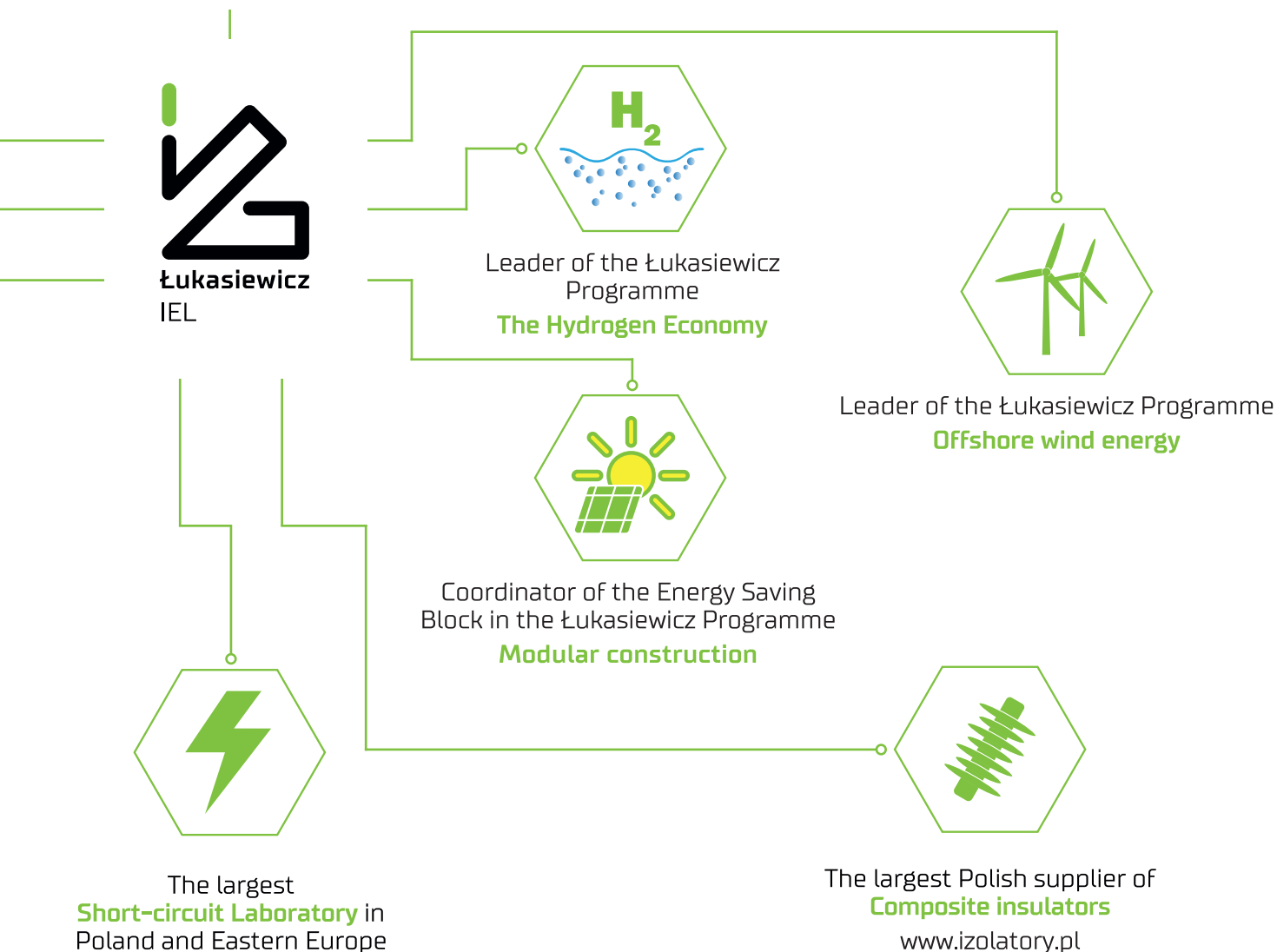
INSTITUTE FULL OF ENERGY
Business | Industry | Science



Łukasiewicz – IEL is a scientific and R&D leader in the field of electrical engineering. The Institute's activities are focused on technology development, the implementation of research and development projects and the practical application of research results. The research and development work are carried out on electricity conversion systems, infrastructure, machines and tools used in transport, equipment and measurement systems in the electrical industry. Energy safety, renewable energy sources and development of hydrogen structures, as well as waste management and circular economy are European and Polish goals and thus the institute's priority.

Since 2019, the Institute as part of the Łukasiewicz Research Network has constantly developed its competences, exchanged experiences and created innovative solutions for industrial practice and everyday life.

Our group of top specialists use the latest research equipment, as well as being members of international project teams.



■ SCIENCE – RESEARCH AND DEVELOPMENT SUPPORT FOR COMPANIES

- The team of Łukasiewicz – Institute of Electrical Engineering provides research and development (R&D), supports companies in various areas of electrical engineering.

We develop and upgrade products and equipment. We have experience in the design of energy-efficient LED lighting, battery energy storage, wireless power, transmission, slow-speed wind generators, electric machines, static converters, electric drives for bicycles, cars and locomotives. We develop high-power converters, for the use in electric traction and power generation to improve power quality of large-scale RES systems. We design and manufacture inductors and high-power transformers specifically for power converters. We offer consultancy work in our areas of expertise.



AC 168



AP 102

■ RESEARCH AREAS

- The range of Łukasiewicz – IEL's competencies includes scientific research, development, implementation and innovation work in the field of:
 - theoretical foundations, design, technology solutions of electrical and power electronic equipment, lighting power systems, automation components and systems, robotics and measurement technologies,
 - electrotechnical materials, as well as manufacturing technology taking into account the requirements of material recovery processes,
 - improving methods for design and manufacture of models and prototypes of electrical equipment and of test and measurement equipment,
 - analysis, simulation and solution design methods and technologies,
 - analyses, evaluations and forecasts of the development of science and technology,
 - analysis of issues related to the national energy transition as well as the problems and challenges of the energy security.



AB 022



AB 067

■ LABORATORIES AND CERTIFICATION

- Research laboratories certified by Polish Center of Accreditation (PCA) – No. AP 102, AB 022, AB 067, AB 074;
- Non-accredited laboratories – Testing Laboratory for Energy Conversion and Storage, Electromobility and Intelligent Transport, Energy Systems, Hydrogen Technologies Electrotechnical Product;
- Certification Unit – PCA accreditation: AC 168.



AB 074



Łukasiewicz
Institute
of Electrical
Engineering

Energy Conversion
and Storage

AC 168 certification

Power systems

AB 022, AB 074,
AB 067, AP 102
Accredited
Laboratories,

Electromobility
and Intelligent
Transport

Electrotechnical
Materials

Hydrogen
Technologies

Power Equipment
and Electrical
Equipment

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Electrical Engineering**

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