



**National Technical University of
Ukraine "Igor Sikorsky
Kyiv Polytechnic Institute"**

**EDUCATION
SCIENCE
INTERNATIONALIZATION**

Institute of Energy Saving and Energy Management (IEE) within Igor Sikorsky Kyiv Polytechnic Institute was established in 1997 on the base of Mining Faculty and now it is a leading educational, training, R&D and consulting institution in the field of sustainable energy development, energy efficiency and energy management in Ukraine. At the beginning of the 2018/19 academic year, there are 845 full-time students and 156 part-time students were enrolled in the IEE study programs offered by the six faculty departments.



Igor Sikorsky Kyiv Polytechnic Institute
**Institute of Energy Saving and
Energy Management**

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**Institute of Energy Saving and
Energy Management**
Education. Science. Internationalization.



Three-level system of education (Bachelor-Master-PhD)

IEE SPECIALTIES AND SPECIALIZATIONS:

- 141 Electrical Energetics, Electrical Engineering and Electromechanics**
 - Engineering of Electric Power Distribution Systems
 - Energy Management and Energy Efficient Technologies
 - Engineering of Automated Electrotechnical Complexes
 - Electromechanical and Mechatronic Systems of Energy-Intensive Industries
- 144 Thermal Power Engineering**
 - Energy Management and Engineering of Thermal Power Systems
- 101 Environmental Study**
 - Engineering Ecology and Resources Conservation
- 184 Mining Engineering**
 - Mining and Extraction of Commercial Minerals
 - Geotechnical and Urban Underground Construction

Mainstream R&D activities at the faculty

ELECTRICITY AND ENERGY

- Energy audit of industrial enterprises and public utilities;
- Energy saving assessment and cost efficiency analysis;
- Intelligent electricity metering systems design and consistent support in terms of valid electricity market requirements;
- Research on advanced demand side management implementation as a part of the Smart Grid concept;
- Design and control of integrated power system with distributed generation to comply distribution system expansion planning and to anticipate energy storage use.

ENVIRONMENTAL PROTECTION TECHNOLOGY

- Resource-saving, low-power-intensive technological processes and operations in opencast mining;
- Energy saving technologies of biochemical waste water treatment and biotransformation of pollutants of waste water into biogas.

MINING AND EXTRACTION

- Energy efficient drilling by controlling internal potential of rock;
- Dynamic stability of the underground constructions.

Internationalization strategy implementation

ERASMUS+ GLOBAL MOBILITY

IEE has a good background in the credit mobility under the Erasmus+ Programme. It is one of the university units, that most involved to the Programme: during the period from autumn 2016 to spring 2019, 28 students and 11 scientists from the faculty staff had participated in the Erasmus+ Global Mobility. Among the partner high educational institutions there are: University of South-Eastern Norway, University of Luxembourg, Centrale Nantes, Polytechnic University of Valencia, Middle East Technical University and others.

INTERNATIONAL STUDENTS:

In the 2018/19 academic year, IEE had started to implement English-taught study programs at the Master level for 10 students from other countries: Algeria, Senegal, Libya, Nigeria, Georgia, and Iraq.



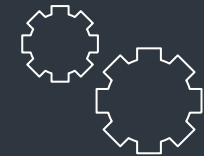
EDUCATION

IEE offers high-quality study programs for bachelor, master and PhD students



SCIENCE

R&D and design activities relating to the sustainable energy development, efficient use of energy, environmental and energy management systems,



INTERNATIONALIZATION

Academic mobility opportunities for students and staff. English-taught study programs for international groups of students