



# National Technical University «Kharkiv Polytechnic Institute»

Institute of Education and Science in Power Engineering,  
Electronics and Electromechanics

## Heat engineering and energy efficient technologies department



We invite you to apply to study for the qualification  
**«THERMAL POWER ENGINEERING»**  
specializations:

- ✓«Industrial and municipal thermal power engineering»
- ✓«Energy management and energy efficiency»



## Areas for studying:

- **Energy efficiency and energy saving technologies**
- **Energy management and energy audit**
- **Renewable and alternative energy sources**
- **Ecology and waste energy using**



## Areas for studying :

- Heating, ventilation and air condition
- Heat supply
- Refrigeration engineering



## Areas for studying :

- Heat technological equipment for industry and agro-industrial complex
- Heat and nuclear power plants



## Employment perspectives:

- **Thermal energy equipment design and exploitation companies**
- **Companies and departments that deal with assembly and adjustment of heating, ventilation, air condition and refrigerating systems**



# Employment perspectives :

➤ Heating supply mains, housing and communal services

➤ Heating and industrial boiler plants



# Employment perspectives :

- Heat and nuclear power plants
- Enterprises for agro-industrial complex
- Utilities sectors at enterprises for engineering, metallurgy, chemical , light and food industries



# Employment perspectives :

- Energy audit companies
- Energy service companies
- Departments and sectors for energy efficiency and control



# General academic disciplines for the students of our department (bachelor's level):

- Thermal processes and plants of industrial enterprises
- Energy carriers production and distribution
- Heat engines and superchargers
- Heating supply mains
- Boiler plants
- Air condition
- Refrigerating plants
- Foundations of energy saving



# General academic disciplines for the students of our department (master's level):



- Effective energy technologies and waste energy utilization
- Energy management and audit
- Plants and systems with renewable energy sources
- Energy ecology
- Ventilation systems design
- Heat and nuclear power plants



# Academic staff of our department



**The head of the department of heat engineering and effective energy technologies,  
Doctor of engineering science, full professor  
A.N. GANZHA**

**Today 18 university teachers work at our department including :  
2 doctor of engineering science, 9 candidates of engineering science and 1 candidate of physical and mathematical science, among them 2 full professors and 9 associated professors.**

