Title, Name and surname

Paweł Gładysz, PhD

Faculty and Department

Faculty of Energy and Fuels, Dep. of Fundamental Research in Energy Engineering

Keywords.

modelling and optimization of thermal processes, exergy analysis and optimization, techno-economic analysis, environmental life cycle assessment

Scientific profile.

My research interests are focused on mathematical modelling and optimization of energy systems including conventional power plants, carbon capture installations, cogeneration and polygeneration plants, as well as geothermal plants. In my work, I use the following modelling tools: IPSEpro, gPROMS, Ebsilon Professional and SimaPro. I have experience using mentioned tools in scientific, education, and industrial works.

Exemplary thesis titles

- Environmental assessment and optimization of polygeneration plant (*reserved for Paweł Sochański*)
- Techno-economic assessment and optimization of polygeneration plant.
- Multicriteria analysis of the optimal coefficient of the share of cogeneration in conventional cogeneration plant.
- Techno-economic and environmental assessment of coal-to-nuclear technologies.

The form of conducting master's theses

MSc students participate in weekly meetings where the research progress and plans for the next week's are presented.