International cooperation

You may know us from FP7, Horizon 2020 and IAEA research projects

Areas of research

- Safety of spent nuclear fuel (SNF) management: modelling of fuel characteristics, safety and environmental impact assessment of storage and disposal facilities, normative and legislative base;
- Safety of radioactive waste management: safety and environmental impact assessment of treatment technologies and storage and disposal facilities, normative and legislative base;
- Evaluation of different factors related to decommissioning of nuclear power plants: planning and cost of decommissioning and dismantling; radiological characterization of the area, buildings, systems and equipment; safety and environmental impact assessment of individual facilities; normative and legislative base;
- Assessment of fire hazard at nuclear power plants and other industrial plants;
- Investigation of thermal processes for nuclear and non-nuclear applications: experimental and numerical, flue gas cleaning, heat recovery;
- Research related to construction of new nuclear power plant in Lithuania.
Project expertise

FOR SCIENTIFIC RESEARCH AND DEVELOPMENT:

OUR EXPERTISE FOR IMPLEMENTATION PROJECTS

- Safety assessment;
- Environmental impact assessment;
- Decommissioning-related assessment;
- Heat transfer in single and two-phase flows;
- Flue gas cleaning, heat recovery.

IMPLEMENTATION PROJECT PORTFOLIO:

- Project "Preparation of the SAR, EIA and Support for the Licensing of the SNF Storage Facility within the Ignalina B1 Project";
- Project "Design and Construction of New Solid Radioactive Waste Management and Storage Facilities (SWMSF)";
- The Project "Near-surface Repository for Low and Intermediate Level Short-lived Radioactive Waste (Design)";
- Project "Development of Innovative Thermal Decomposition Technology and its Application for Sewage Sludge Utilization";
- Project "INPP Building V1 Equipment Dismantling and Decontamination Design Development";
- Project "INPP Building 117/1 D&D Project Development";
- Project "Landfill Facility for Short-Lived Very Low Level Waste";
- Etc.

Tools we work with

THE FOLLOWING SOFTWARE IS USED FOR INVESTIGATION:

- MicroSkyshine, MicroShield, Scale, MCNP (for investigation of used nuclear fuel and its storage equipment characteristics);
- PetraSim, GoldSim, COMSOL, Amber, Gardenia, ISC Aermod View, EQ3/6, PHREEQC 2 (for investigation of the characteristics of radioactive waste and its treatment, storage equipment and disposal facilities);
- PyroSim, CFAST6 (for investigation of fire in nuclear facilities and industrial plants);
- ANSYS, COMSOL (for investigation of heat transfer and flow hydrodynamics in various installations);
- DECRADE software developed by the Laboratory for analysis of the dismantling process of various nuclear facilities.

Our main clients

Partners for implementation projects