Press Release

Research Centre Rez sets mechanisms for commercialization of R&D results

Research Centre Rez works on improving of industrial utilization of research´s results. The four pilot projects were selected for the beginning, where all potential tools and techniques for commercialization of research´s results will be tested.

Thanks to the Operational Programme Research and Development for Innovation support, namely the support from the chapter 3.1 - Commercialization of Results in Research Organizations and of their Intellectual Property Protection with the official name Efficient Infrastructure for R&D Commercialization, there would be in the Research Centre Rez over the years 2014 and 2015 founded infrastructure and set the specific processes, to facilitate commercialization of it´s research results in general. Both infrastructure, based on the formation of the Technology Transfer Office (TTO) and relevant processes will be tested in four individual pilot activities, as follows:

• Purification of water solutions by the means of reverse osmosis, exploring the possibility of using reverse osmosis for the purpose of decreasing the concentration of silicon compounds in the coolant of the primary circuit of nuclear reactors containing boric acid.
• Purification of water by UV radiation and oxidizing agents. The content of total organic carbon (TOC) in the wastewater is not limited in most countries, despite the fact, that high concentration of TOC cause problems with corrosion and fouling surface of systems.
• Use of ceramic insulators for electrochemical measurements. The aim is to build the electrode able to long-term performance in supercritical water conditions (temperature and pressure above 375 °C / 22 MPa).
• Skid for measurements of the fuel assembly geometry, using ultrasonic sensors for post- radiation fuel inspection.

The results of the experiments of the above mentioned activities are supposed to increase the safety and efficiency of nuclear power plants.