

**Title:** Energy perspectives in a changing energy transition

**Abstract:** There have been significant changes in energy strategies since 2022. The Russian-Ukrainian war, soaring energy prices and increased supply risks have highlighted the importance of reliable and affordable energy supplies, while previous decarbonisation targets remain unchanged. While most member states favour the development of renewable energy sources and there are still large differences between the energy strategies chosen by European countries, half of them are committed to use nuclear energy. The presentation will provide an overview of the energy strategy of European countries, the need and results of high time resolution modelling of electricity market processes, and the potential for the application of large power reactors and small modular reactors (SMRs).