Future energy systems will be forced to become increasingly flexible in order to cope with the challenges derived from the high penetration of renewable energy sources. Therefore, policy makers need to consider issues such as the effects of intermittent energy sources on the reliability and adequacy of the energy system, the impacts of rules governing the curtailment or storage of energy, or how much backup dispatchable capacity may be required to guarantee that energy demand is safely met.

The objective of the workshop is to gather experts from modelling teams currently dealing with these problems from different perspectives, ranging from energy system-wide to detailed sectoral energy models, in order to share and compare modelling approaches and results, identifying gaps and potential solutions.

The expected outcome of the workshop will consist of a series of specific ideas and recommendations on how to address or improve the representation of different flexibility-related issues of interest in energy system models.