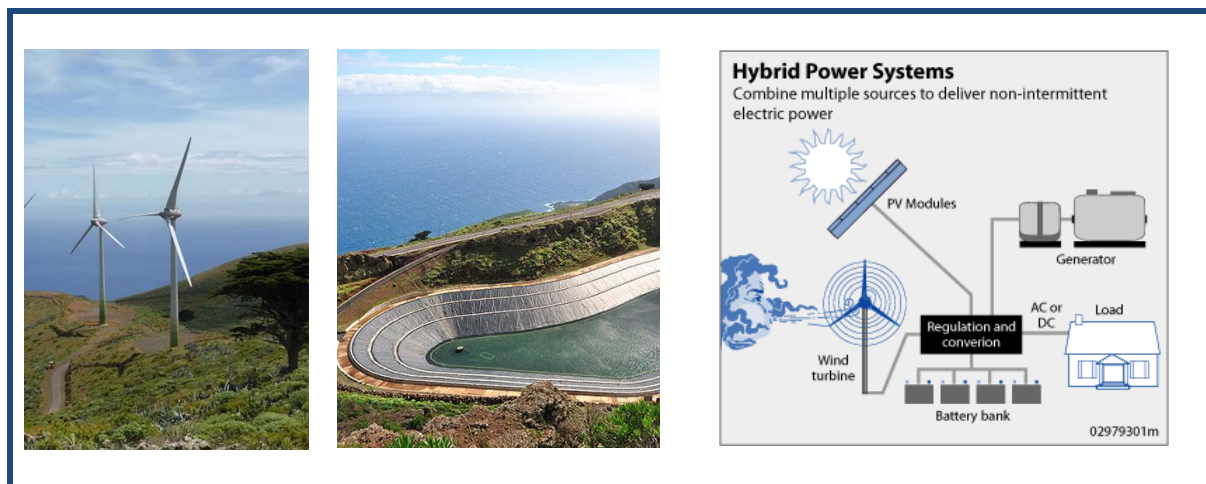


**Objectives:** To better understand sustainability implications (techno-economics and environmental impacts) of conventional and hybrid energy storage technologies regarding used materials, system design, their hybridization, and finally system optimization.

**Target audience:** Scientists working in EERA and industry related to energy storage, smart grids and hybrid energy systems



**Expected outcome are:**

- Make information on existing hybrid systems and sustainability implications available
- Point out research needs for hybrid energy and energy storage systems and their integration regarding sustainability aspects
- Raise awareness about the relevance of sustainability aspects for technology development and selection
- Produce popular science information on hybrid energy and energy storage to inform policy and public bodies

**Topics:**

- **Materials for energy storage technologies:** Relevance of sustainability indicators for selection
- **Energy storage systems:** What are critical aspects for the design of energy storage technologies
- **Sustainability** of hybrid energy storage systems, how to evaluate them, which indicators should be used
- **Optimization** of hybrid energy storage systems regarding sustainability
- EERA JP Advanced Materials and Processes for Energy Application (**AMPEA**) input

**Potential Publication:** Possibility to submit a paper in a special issue of the international journal of energy storage in line of the named topics (not limited to presenters)