

## Center for Sustainable Energy

The Center for Sustainable Energy promotes the development of tools and methods for the **creation, storage and distribution of environmentally friendly energy solutions**. The main areas and objectives of the center are: development of **battery**, flow and next-generation **energy storage technologies**, from the development of advanced materials to the engineering and validation of systems; **innovative solutions related to the development of the renewable hydrogen supply chain, from production to end uses** (FBK is the most awarded center among young researchers in the field of hydrogen in Europe); **development of initiatives related to energy networks and a more flexible exploitation of energy from renewable sources** (microgrids, distribution networks and transmission networks).

Center director Luigi Crema is the president of **Hydrogen Europe Research**; he is a member of the European public-private hydrogen supply chain research and development program, **Clean Hydrogen Partnership**, and vice president of **H2IT - Italian Hydrogen Association**.

An example, representative of the center's activities, is the **SWITCH** - Smart Ways for In-Situ Totally Integrated and Continuous Multisource Generation of Hydrogen project, which was awarded the 2023 Energy Globe Award.