

## **CoSyET: a PNRR-funded innovation infrastructure on materials and technologies for energy transition**

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The worldwide growing environmental concerns correlated with CO<sub>2</sub> emissions, especially in energy-intensive industrial activities, have pushed the academic and industrial research towards innovative and efficient technologies aimed at: (i) mitigating climate change by ensuring reduction of the anthropogenic CO<sub>2</sub> footprint and (ii) improving the efficiency in the usage of renewable energy vectors, within a circular economy perspective.

To this aim, thanks to PNRR funds, the Center for Sustainable Future Technologies - Istituto Italiano di Tecnologia has been financed with the CoSyET project for the realization of a new infrastructure, involving industrial economic participation with a quote of 51%, aimed at developing materials and technologies for the energetic transition up to pre-industrial scale (TRL6-7). The technologies involved are more specifically related to CO<sub>2</sub> valorization, waste valorization, H<sub>2</sub> production and use, sustainable energy sources, technologies for high electric power management, energy storage systems.