University of Insubria - Ph.D. School in Chemical and Environmental Sciences (DISCA)



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Date: March 8, 2023

Time: 14:30

Location: online

A difficult energy transition



Abstract

The transition from fossil fuels to renewable energy is the key tool to reducing greenhouse gas emissions and fighting climate change. The two cornerstones of the transition are energy efficiency and electrification of end uses. The latter is particularly relevant for the transport and building sectors.

In this context, it is useful to critically analyze the prospects of the hydrogen vector, which can be rationally used only in some specific contexts. The targets set by the European Union for the reduction of greenhouse emissions for 2030 and 2050 highlight the need to act very quickly. An epochal energy transition to be completed in just thirty years is a huge challenge and the next ten years will be crucial. An analysis of the many technical, economic, and social bottlenecks along the way will be made. The energy transition is not only a challenge but also an enormous opportunity for scientific and technological advancement, particularly for the chemical sciences. Nicola Armaroli is the author of several scientific publications and books, including "Energia per l'astronave Terra" (Zanichelli), "Emergenza Energia", and "Un mondo in crisi" (Edizioni Dedalo).

The webinar will be broadcasted with the Microsoft Teams software Host: Jenny G. Vitillo – For registrations: https://bit.ly/3BiQCzQ