

Plenary Keynote: Xiliang Zhang

Professor and Director of the Institute of Energy, Environment and Economy, Tsinghua University

The role of hydrogen energy in achieving China's carbon neutral goal

Abstract

This presentation will firstly give an introduction to the current status of hydrogen production and use in China. The second part will provide an overview of China's energy system transformation toward carbon neutrality of which hydrogen energy development serves as an important element. Then it will present an outlook for the hydrogen production from renewable electricity and nuclear energy and the uses in transport, steel manufacturing, chemical production, and district heat and electricity generation. The presentation will also discuss the infrastructure and institutional barriers to the hydrogen production, transport, and uses in the context of China. The last part of the presentation will be on the policy interventions and institutional reforms needed to address those barriers.