

Integrated Modelling for Energy Transition and Synergies towards Carbon Neutrality in China

Achieving carbon neutrality requires profound changes in energy system in China. These changes will have far-reaching implications on the energy–food–water–air quality nexus. The Integrated Assessment Model is the core tool to simulate carbon mitigation pathways. This presentation will introduce the development of China TIMES model and its application on China’s energy transition pathways towards carbon neutrality. In addition, a multi-model interconnection assessment framework linking China TIMES with GAINS, GLOBIOM, and etc. to explore and quantify the co-benefits and trade-offs of low carbon transition will also be presented.