

Prospects for Renewables in a CO₂ Constrained World

Fridtjof UNANDER, Dolf GIELEN, Niclas MATTSSON

International Energy Agency (IEA), Paris , FRANCE
Corresponding author: "Fridtjof Unander" <fridtjof.unander@iea.org>

The IEA has updated its renewables policy analysis, based on the Energy Technology Perspectives (ETP) model. This presentation will discuss the future role of renewable energy vs. other options in meeting CO₂ policy targets in the electricity sector, with special emphasis on CO₂ capture and storage. The importance of renewables technology learning and the choice between deployment and R&D strategies will be elaborated. Sensitivity and scenario analysis results provide insights regarding the best policy strategy. The analysis shows that technology prospects differ by world region. Therefore a regionalised approach is needed for proper analysis of cost-effective emission mitigation strategies.

Keywords:

renewables, policy analysis, modeling, ETP, technology learning