

# Potential Improvements from EIA's Challenges in Modeling International Climate Policies Workshop on June 29, 2022

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## Background

The U.S. Energy Information Administration (EIA) held a workshop on the modeling of international climate policies on June 29, 2022. This workshop brought together both industry representatives and modeling practitioners to explore the market forces that corporations face when looking to reduce their carbon emissions, as well as the methods external analysts use when modeling international climate policies. Although resources have not yet been allocated, we are considering the improvements listed below to inform our [modeling of international climate policies](#) as a result of this workshop.

## Potential improvements

- Pursue decarbonization analysis:
  - Consider modeling additional technologies that may be used to address decarbonization
  - Research what various decarbonization scenarios could look like. These scenarios could include exploring:
    - Different policy assumptions either globally or regionally
    - Approaches for incorporating various decarbonization commitments
    - Changes to non-price determinants of demand
  - Assess and pursue data needs that would support decarbonization scenarios. Specific data needs could include:
    - Additional information on the capacity to produce materials needed for different technologies
    - Regional differences in costs, resource availability, and investment
- Represent the fracturing of global markets, including the following potential modeling considerations:
  - Trade restrictions (on both commodities and technologies)
  - Country or regional differences in emission-reduction commitments (for example, carbon border adjustment taxes and emissions trading blocs or clubs)
  - Geographic granularity of modeling regions
- Continue to improve the model's ability to determine fuel prices and to respond to prices with assumptions that vary from the Reference case, for petroleum products and natural gas in particular.

## Contact

Please contact [the International Energy Outlook team](#) with questions.