## Association Webinar Rewinds

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#### Webinar Rewinds

**Topic:** Carbon Pricing Shaping Carbon-Neutral Energy & Transport Systems: Technology Exchange, Business

Cases

Moderator/Speaker: Hans Auer

Speakers: Karlo Hainsch and Sebastian Zwickl-Bernhard

Date/Time: September 27, 2021 10:00 - 11:00 AM Eastern Time

Host: International Association for Energy Economics

More details: (Click here)

Carbon Pricing Shaping
Carbon-Neutral Energy &
Transport Systems:
Technology Exchange,
Business Cases



# Carbon Pricing Shaping Carbon-Neutral Energy & Transport Systems: Technology Exchange, Business Cases

Hans Auer (TU Wien)

Karlo Hainsch (TU Berlin)

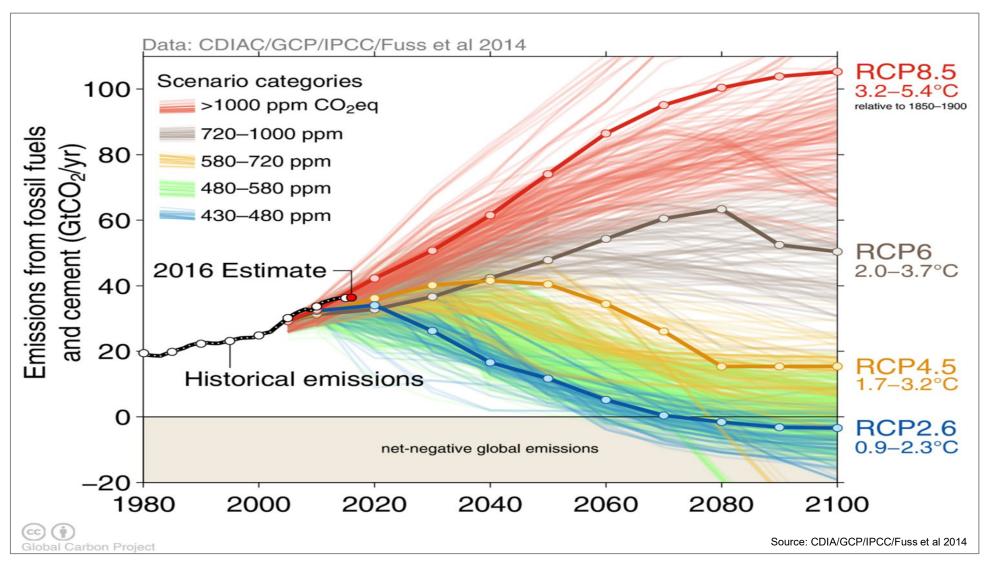
Sebastian Zwickl-Bernhard (TU Wien)

IAEE Webinar, September 27, 2021



## Global Emissions and Temperature Increase until 2100

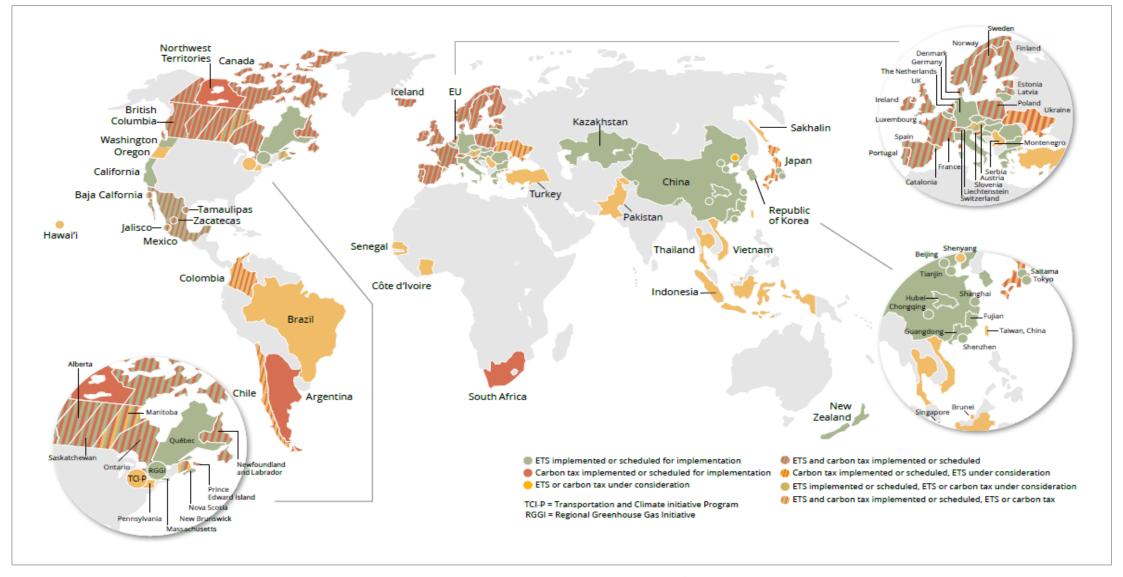






# Map of Carbon Taxes & Emissions Trading Systems in 2021

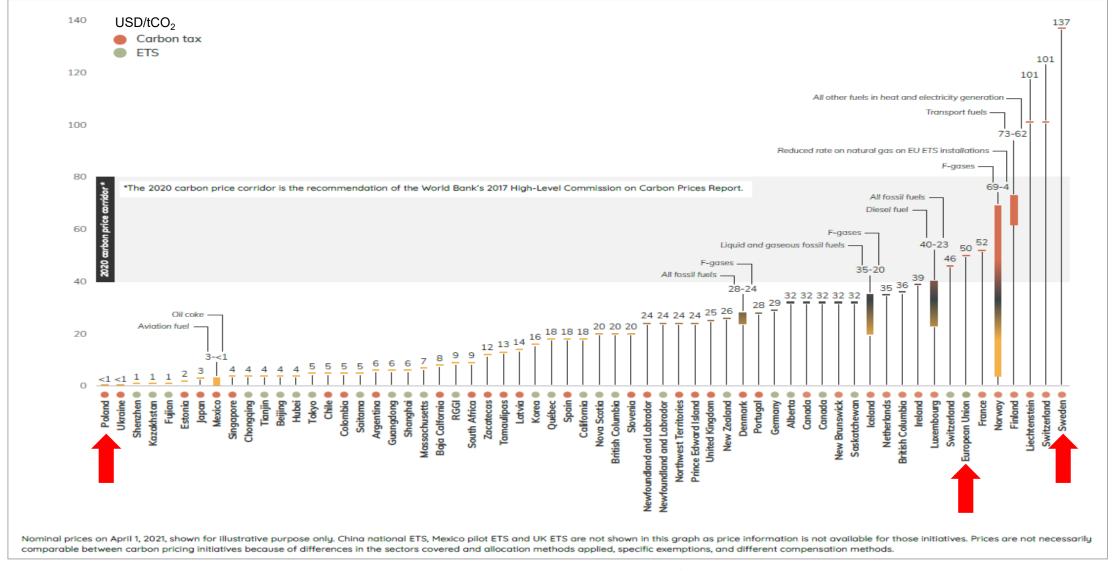






## Carbon Prices in selected Countries as of April 1, 2021







## European Carbon Pricing: Lessons from the Past, Future



#### Past: Lessons learned

- Both instruments work (carbon taxes, emission trading systems)
- Both instruments have pros/cons and different target groups
- Regardless of instrument, important:
  - ... details of design, implementation, monitoring, adjustment mechanism
  - ... stable policy framework -> long-term planning / adaptation horizon
  - ... prudence (competitiveness of industries, social aspects of end users, ...)

### Future: European 2030 Policy, Green Deal "Fit for 55"

- "Leaving no one behind"
  - ... European economy competitiveness (CBAM Carbon Border Adjustment Mechanism, 2023/2026)
  - ... national economies / industries within Europe
  - ... historical grown technology / fuel mix (e.g. Poland)
  - ... end-users: socially balanced financial burden sharing
- Amendment of EU ETS, Phase 4 from 2021-2030
  - ... Still free allocation of allowances; inclusion of suppliers for transport/mobility/heating fuels (start 2025) in addition to industry, utility industry and aviation
  - ... annual cap reduction to 2.2%; Market Stability Reserve (resilience to future shocks)
  - ... many others
- European 2030/2050 policy framework points into the right direction: make it happen!



# Speakers & Discussants



Karlo Hainsch, CoalExit Research Group, TU Berlin

CO<sub>2</sub> price paths of the open source energy system model GENeSYS-MOD for a climate-neutral European energy and transport system

Sebastian Zwickl-Bernhard, Energy Economics Group (EEG), TU-Wien

Shifting profitability boundaries and new balances in the energy transition due to rising CO<sub>2</sub> prices - upcoming new business cases



# Acknowledgements



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