

## **APERC Update**

## **EGEEC 56 and EGNRET 55 Joint Meeting**

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- Update on APEC Energy Demand and Supply Outlook, 8<sup>th</sup> Edition (2022)
- Preliminary results for energy intensity in four economies



## **APEC Energy Demand and Supply Outlook**

- Provides projections of energy demand and supply
  - 21 APEC member economies
  - 2019-2050
- Published every three years
  - 7th edition published June 2019
  - 8th edition scheduled for Q2 2022
- Two volumes
  - APEC-wide trends
  - Economy-specific trends (21 chapters)
- Data tables
- For the 8th edition
  - Redesigned analysis workflow
  - EGEDA data





## APEC Energy Demand and Supply Outlook, 8<sup>th</sup> edition

- Provides outlook for two APEC energy-related goals energy intensity and renewable energy
- Target publication date is 2<sup>nd</sup> Quarter 2022
- Key Details:
  - Projections run through 2050
  - Historical energy balances between 2000 and 2018 are based on EGEDA energy balances
  - Macro-economic assumptions are constant across scenarios
    - Population: historical data from World Bank WDI, growth rate projections from UN DESA 2019 Population Prospectus
    - GDP: historical data from World Bank WDI, projections from OECD and internal analysis
  - COVID-19 impact on GDP is incorporated in the 2020-2025 timeframe with return to pre-COVID growth rates after 2025
  - Energy units are petajoules (PJ) -- conversion table in Appendix
  - Emissions analysis considers CO2 emissions from combustion in the energy sector, excludes non-energy emissions



Reference Scenario (RS)	Net-zero Scenario
Reflects current trends and relevant policies in place or planned. Provides	Hypothetical energy sector net-zero pathway for each APEC economy
a baseline against which the other scenario can be compared.	through 2050.



- June/July 2021: **EWG Review** of preliminary results for Reference and Net-zero scenarios
- Sept/Oct 2021: **EWG review** of report chapter drafts
- February 2022: Seek **EWG endorsement**
- 2<sup>nd</sup> Quarter 2022: Publish report



## **China – Energy Intensity**



- Large difference between Reference Scenario results and the linear extrapolation of the 2005 2018 energy intensity trend
- Energy intensity improvements overwhelmingly concentrated in the industry sector



## **United States – Energy Intensity**



- Linear extrapolation of 2005 2018 energy intensity trend is a close approximation of Reference Scenario results
- Energy intensity improvements in 2035 are concentrated in the transportation sector (53%) followed by buildings (33%)



### Japan – Energy Intensity



- Large difference between Reference Scenario results and the linear extrapolation of the 2005 2018 energy intensity trend
- Energy intensity improvements are relative balanced between three sectors



## **Russia – Energy Intensity**



- Linear extrapolation of 2005 2018 energy intensity trend is a close approximation of Reference Scenario results
- Energy intensity improvements are relative balanced between three sectors





# **Thank You**

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