

2-1. APEC Energy Demand and Supply Outlook 8th Edition – Introduction

APERCC Workshop

The 62nd Meeting of APEC Energy Working Group (EWG)
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David Wogan, PhD

Assistant Vice President, Senior Researcher



APEC Energy Demand and Supply Outlook

- Provides coverage on projected energy demand and supply trends
 - 21 APEC member economies
 - 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

- The base year is 2018 and 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
- Energy units are in petajoules (PJ)
- Emissions analysis considers CO₂ emissions from combustion in the energy sector, excluding non-energy

Scenarios

	Reference (REF)	Net-zero (NZS)
Definition	Recent trends and current policies.	Investigates hypothetical energy sector net-zero pathways for each APEC economy through 2050.
Purpose	Provides a baseline for comparison with the Net-zero scenario.	Explores the magnitude and direction of additional transformations that could support development of net-zero energy systems.
Key assumptions	Initial steps towards net-zero ambitions are included up to 2030.	Increased levels of energy efficiency, behavioral changes, hydrogen uptake, and CCUS deployment.
Limitations	Assumes that recent trends, including relevant NDC measures, are not altered.	Does not consider non-energy impacts on CO2 emissions (e.g., land-use change, non combustion of fuels).

- *does not represent APERC's recommendation or advocacy for a pathway or set of policies.*

Session agenda

- Preliminary results for each economy were sent to EWG members for feedback
 - Revisions based on EWG feedback are in progress
- The following presentations will present APEC-wide preliminary results (prior to revision)
 - Demand
 - Supply
 - Power and heat
 - APEC goals and CO2 emissions

Thank you

