

CAREC Energy Investment Outlook

Presentation for CAREC Energy Sector Coordinating Committee Meeting









Outlook aims to stimulate investments in energy infrastructure by providing comprehensive set of market data and trends

Background and objectives

Roland Berger in cooperation with ILF





Selected challenges faced by potential investors

Incomplete and scattered data

Even if investors are willing to analyze multiple sources, only limited information is available on recent energy trends and investments needs in CAREC

Extensive regulatory changes

- Many CAREC members have shown strong ambition in reforming and liberalizing regulatory frameworks, which adds to short-term uncertainty but sets the basis for suitable investment conditions in the future
- Technological disruptions
- New technologies with strong potential to compete against incumbent technologies continue to emerge in the global and regional landscape

Environemntal awareness

CAREC, whose members are vulnerable to the effects of climate change, is becoming increasingly aware of the environmental challenges – Energy sector can be subject to pressure from various stakeholders

- > The Outlook will provide a first comprehensive and reliable set of energy market data, including:
 - Supply and Demand
 - Carbon emissions
 - Investments needs
- > By providing critical insights and enhancing transparency, the Outlook will facilitate decision making and **stimulate much needed energy infrastructure investment**
- It will also provide information and recommendations to policy decision-makers to support their efforts in attracting private investments



Source: Roland Berger



The Outlook will consist of four key elements, all assessed on two levels – aggregated for CAREC and country-specific

Key elements of the Outlook

Roland Berger in cooperation with ILF



The Outlook will include:



Supply and demand Outlook



Technology Outlook



Carbon emissions Outlook



Investment Outlook



Aggregated view on the entire CAREC region

















Deep-dive for each CAREC member country

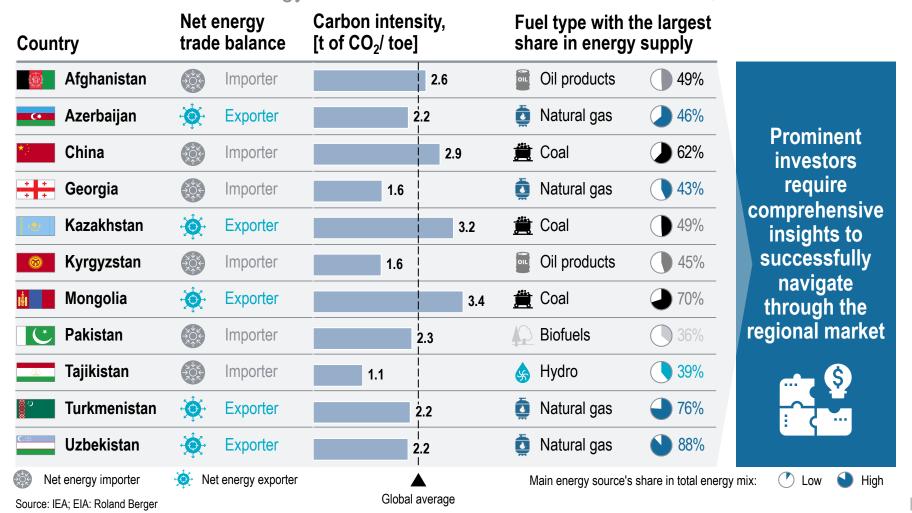
Country level (x11)

Source: Roland Berger



Status quo of energy in CAREC is diverse and complex – Investor community requires thorough analysis from various perspectives

Overview of selected energy statistics for CAREC member countries, 2018

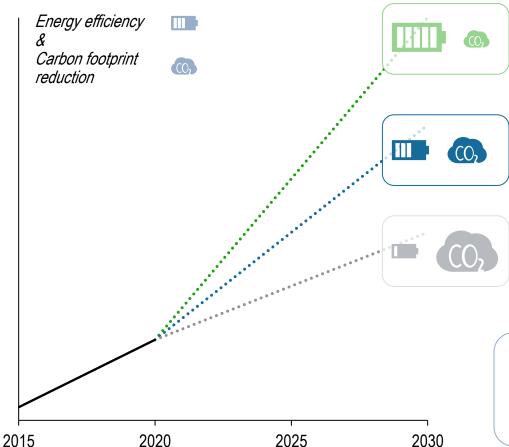




Three scenarios are defined to assess development under various policy measures and subsequent energy mixes and efficiency levels

Illustrative overview of the Outlook scenarios

Illustrative



Green Growth

Projection considering enhanced energy transition and environmental policies (vs the ones pledged by the countries) and accelerated economic development, leading to advanced energy efficiency and lower carbon footprint

Government commitments

Projection considering individual **priorities & pledges of CAREC governments (e.g., NDCs)**, leading to moderate shifts in fuel mix and efficiency improvements

Business-as-usual (BAU)

Projection considering **current energy system and policies**, with limited changes in energy mix and efficiency resulting in substantial carbon emissions



Scenarios should be not treated as predictions of what is likely to happen in the future.

They rather explore the potential implications of different energy transition paths, helping to inform a judgement about possible outcomes.

Source: EIA; Roland Berger



Following the key CAREC meetings, we will focus on obtaining expert opinion via online questionnaire and bilateral discussions

Overview of the Outlook preparation process and next steps

May 25th



Working Group & Task Force Meeting





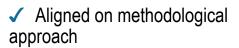












- ✓ Discussed development prioritities of member countries
- Established contact points and basis for future cooperation

Today

Energy Sector Coordinating Committee Meeting



Remainder of 2021

Online questionnaire



Collection of energy experts' opinion regarding key trends and drivers of change on a national level



If further alignment is necessary, bilateral follow-up discussions will take place to clarify data and align on final results

Expected Q1 2022

Publication of the Outlook



Source: CAREC; Roland Berger



