

Mainstreaming Climate Change across CAREC 2030's operational areas:

Energy

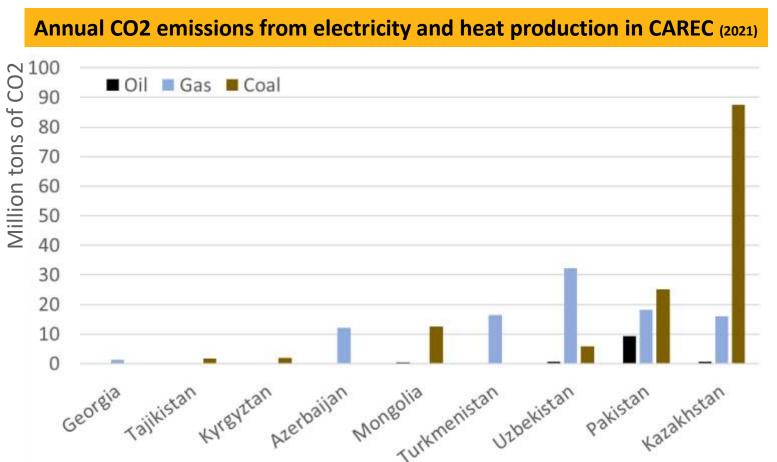
1st Meeting of the Working Group on Climate Change

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The diagnosis: in total around 250 million tons of CO2 emissions from electricity and heat production in CAREC countries (less PRC)

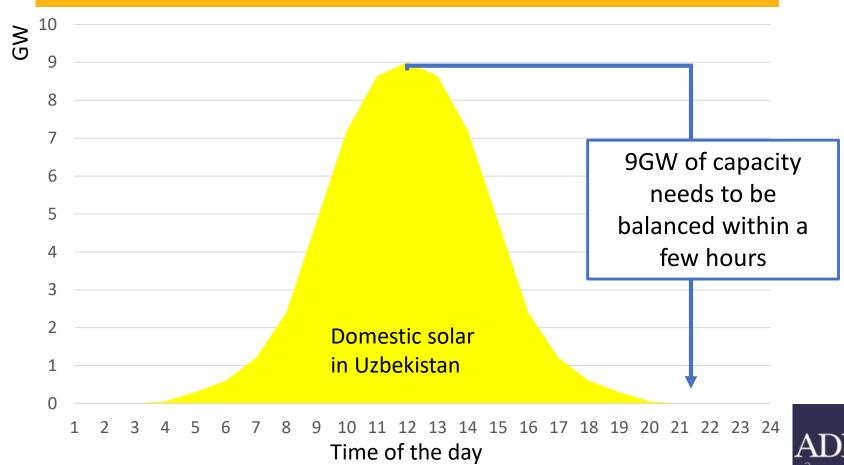






Substantial ambitions to reduce CO2 emissions in the power sector through investments in renewable energy. **Intermittency is a problem.**

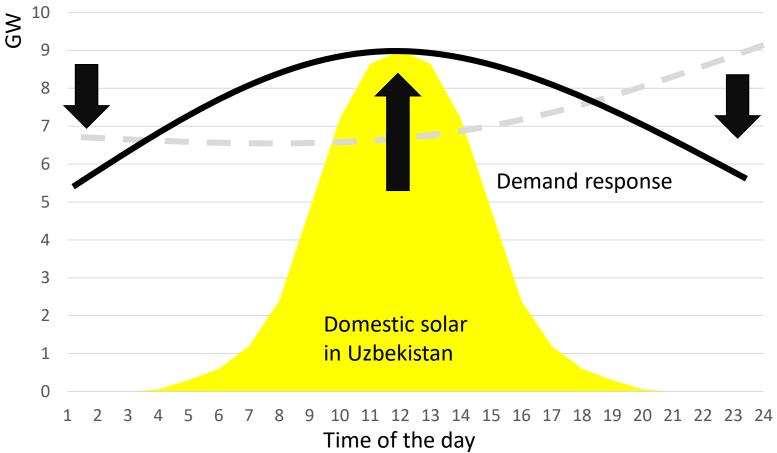
Theoretical summer day in Uzbekistan in 2030, output from Solar Energy





More dynamic tariffs are needed to create a demand response: better aligning demand load with output load.

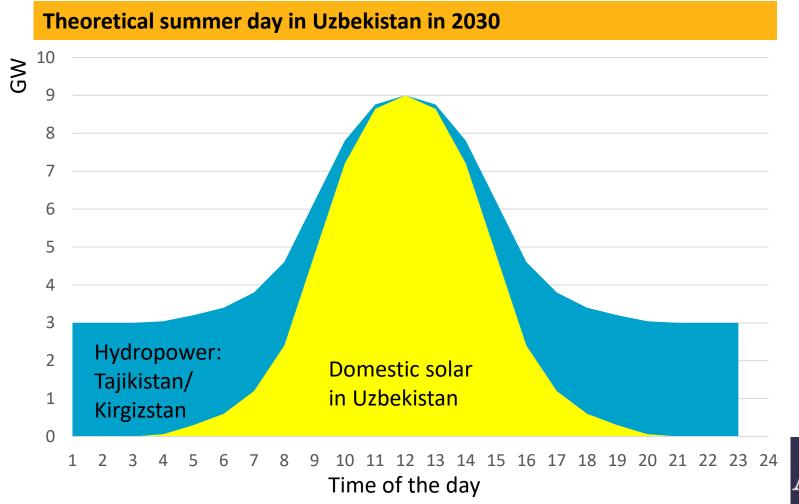
Theoretical summer day in Uzbekistan in 2030, output from Solar Energy







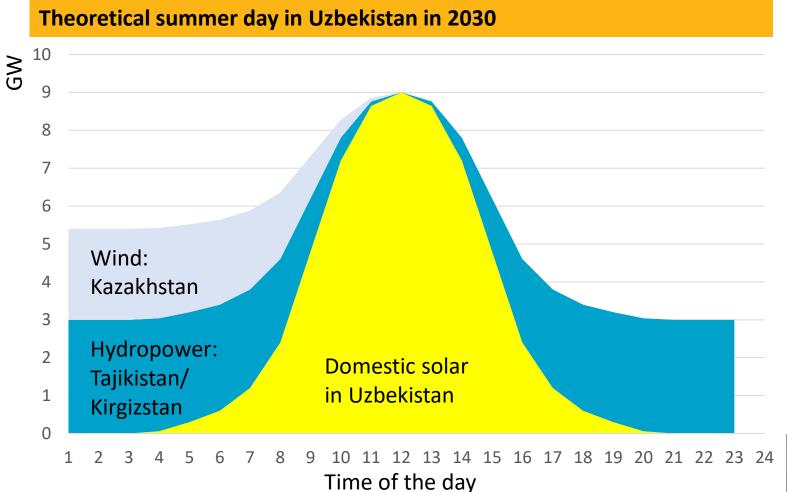
Better interconnectivity in the region will reduce load balancing costs, and secure more efficient resource allocation.







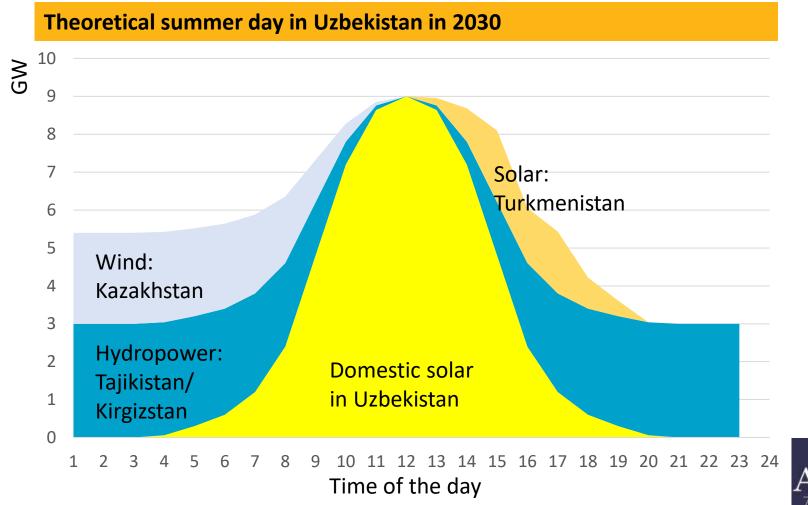
...spreading local intermittency over a larger area, enhancing grid resilience and flexibility





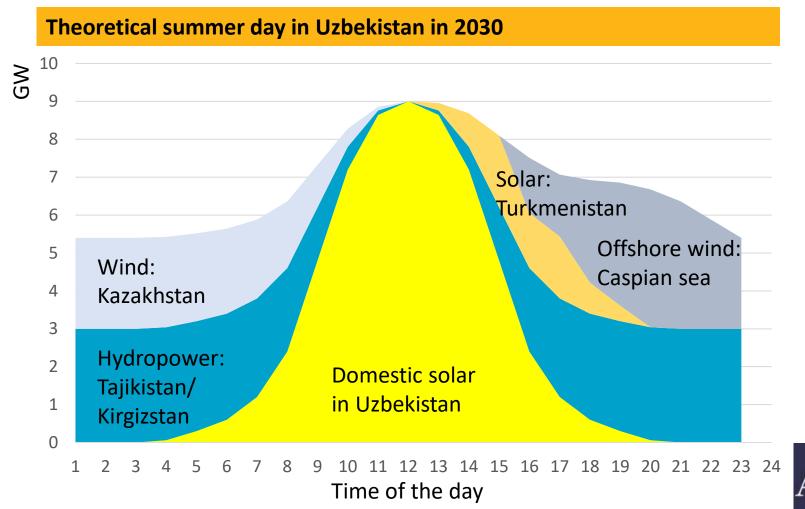


...lowering risk for local curtailment (wasted energy)





...ultimately creating a more flexible power grid capable of handling a larger share of intermittent RE, resulting in lower CO2 emissions overall





CAREC Energy: mitigating climate change through its focus on <u>interconnectivity</u> and regional energy collaboration

 Enhanced Interconnectivity: Developing physical infrastructure and improving legislation to better connect CAREC countries and allow for more efficient regional power trade.

 Dynamic Tariff Systems: Implementing flexible pricing for electricity to better match supply with demand both domestically and regionally, ensuring more efficient use of resources.





ESCC Work program 2023-2025

- Action- and meeting based work program agreed upon at last year's ESCC meeting
 - -> leveraging on previously delivered knowledge products, coordinated with other development partners and CAREC member governments.
- Aligned with the CAREC Energy strategy:
 Interconnectivity, scaled up investments and sustainability.

Activity	Location	Timing
33 rd ESCC Meeting	Zoom	May 14, 2023
CAREC Energy Investment Forum	Tbilisi	Nov 28-29, 2023
Energy Mission to Norway and Denmark	Oslo and Copenhagen	Jun 17-19, 2024
Transmission and interconnectivity workshop	Tashkent	Sep 25-26, 2024
Proposed: Infrastructure Investment Forum	Almaty	Q4 2024 (TBC)
Energy Efficiency Event	Bishkek?	H1 2025 (TBC)

