

# **2022 SPECA Economic Forum on “Greener and Safer Future”**

## **Session IV: Sustainable energy transition**

**16-17 November 2022 in Almaty**

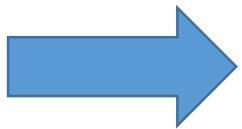
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***“Pathways towards a sustainable transformation of  
energy systems in Central Asia”***

## **Context – Energy systems in Central Asia are facing multiple challenges**

- Consequences of the war in Ukraine (i.a. increasing energy prices)
- Aging energy infrastructure with low industrial energy efficiencies
- Increased capital costs and access to finance
- Climate change and its impact esp. on water resources
- Connectivity, diversification and resilience of energy systems



Which pathways can support a sustainable and affordable transformation of energy systems in Central Asian countries (1.5 °C goal)?

# Contribution of UNECE Committee on Sustainable Energy to the transformation of energy systems in Central Asia

Selected UNECE activities in Central Asia:

- Project “**Pathways to sustainable energy**” (2016-2020): modelling of energy scenarios for all ECE member states, incl. Central Asian countries
- Set-up of a **Central Asia Energy Transition Task Force** (policymakers, energy industry, finance sector and academia representatives)
- **Analysis of RE potential** in the region (UNECE RE Status Report 2022)
- **Sustainable Resource Management**: Project on improving national capacities of Central Asian countries
- Ongoing project on **sustainable hydrogen production** and its role in the development of a hydrogen ecosystem and export potential

## **Key joint activities for 2023 – Building resilient energy systems in Central Asia through:**

- **Low and zero-carbon technology interplay for resilient energy systems in Central Asia** – UNECE Sustainable Energy leads
- **Water-energy nexus in Central Asia** – OECD leads, in cooperation with EBRD and UNECE Environment (IKI Project)
- **Improving Energy efficiency in the Building Chain of the UNECE region, including Central Asia (IKI Project)** – UNECE Sustainable Energy leads
- **Energy connectivity in Central Asia** – ESCAP leads
- **Fostering next generation of experts to deliver on energy transition in Central Asia** – KBTU leads
- **Financial structures and derisking investments** – UNDP leads

## Fields of activities

- **Improving framework conditions for investments** (good governance, security for investments, cost-covering tariffs) **and financing** of renewable energy and storage capacity in order to **attract private investors and IFIs**
- **Improving diversification and resilience**
- ***Increasing* multilateral co-operation**
- ***Improving* connectivity and cross-boundary approaches**

**Thank you for your attention!**

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