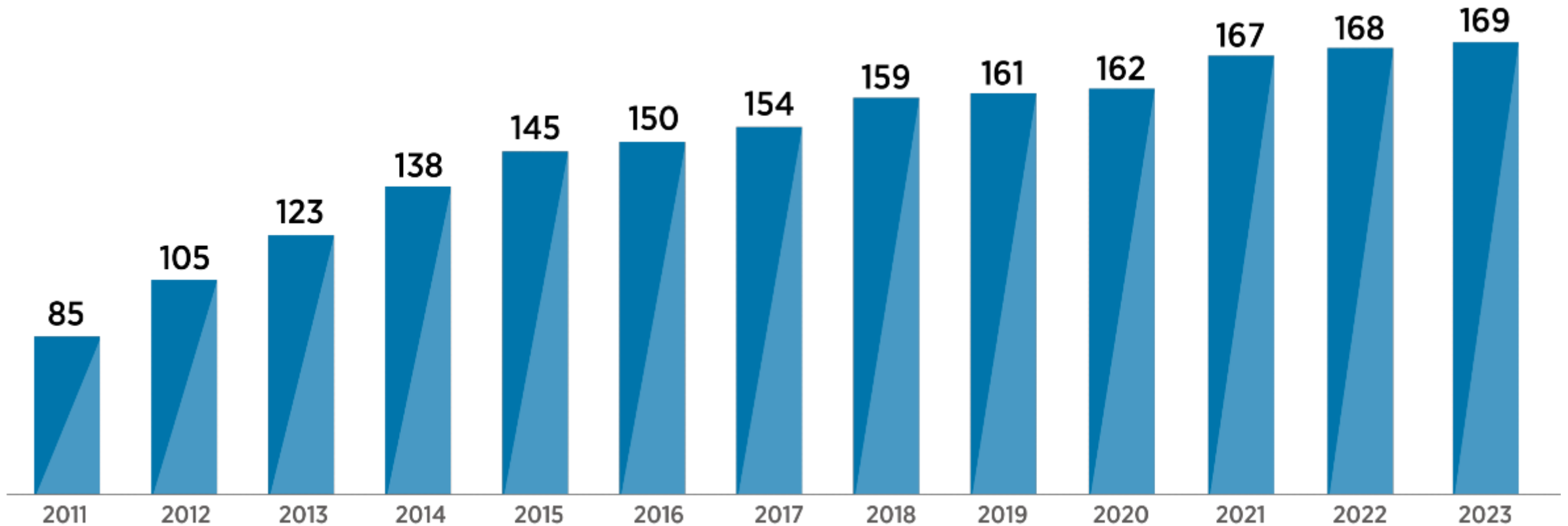


2023 CAREC ENERGY INVESTMENT FORUM

Unlocking Investment in the CAREC Region



IRENA Mission: *“Supporting countries worldwide in their transition to a sustainable energy future”*

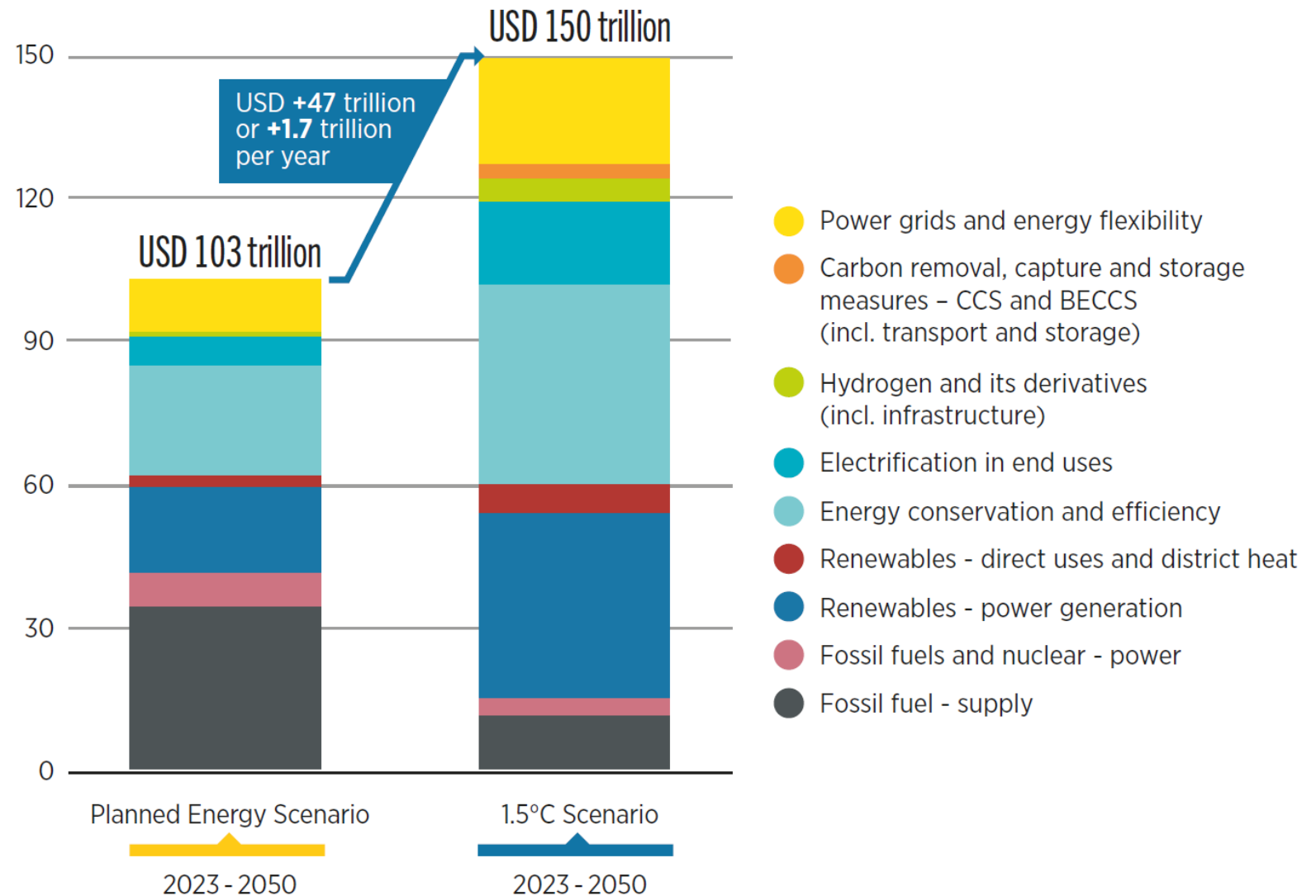


IRENA's Mandate for Project Facilitation

The Project Facilitation and Support Division aims to:

- Support the deployment of renewable energy projects;
- Help project developers secure financing more efficiently;
- Support investors and lenders to build more robust project portfolios.

Cumulative energy sector investments, 2023 - 2050 (USD trillion)





IRENA project facilitation platforms (CIP/ETAF): requests for support

Europe Projects 69

- | | | | |
|---|---------|----|-----------|
| 2 | Albania | 1 | Monaco |
| 1 | Austria | 2 | Macedonia |
| 1 | Belgium | 1 | Norway |
| 4 | Cyprus | 1 | Poland |
| 1 | Denmark | 1 | Romania |
| 1 | Finland | 1 | Russia |
| 8 | France | 8 | Spain |
| 4 | Germany | 2 | Sweden |
| 3 | Israel | 4 | Türkiye |
| 3 | Italy | 6 | Ukraine |
| 1 | Latvia | 12 | UK |
| 1 | Moldova | | |

Small Island Developing States (SIDS) Projects 29

- | | | | | | | | |
|---|---------------------|---|--------------------|---|-------------------|---|----------------------------------|
| 4 | Antigua and Barbuda | 2 | Cuba | 1 | Grenada | 1 | Saint Vincent and the Grenadines |
| 1 | Dominica | 1 | Haiti | 2 | Jamaica | 1 | Seychelles |
| 2 | Bahamas | 3 | Dominican Republic | 1 | Saint Kitts Nevis | 4 | Vanuatu |
| 4 | Barbados | 2 | Fiji | | | | |

Asia Projects 94

- | | | | | | |
|---|-------------|----|------------|---|--------------|
| 1 | Afghanistan | 1 | China | 3 | Mongolia |
| 3 | Australia | 3 | Georgia | 3 | Nepal |
| 2 | Bangladesh | 27 | India | 1 | New Zealand |
| 1 | Bhutan | 23 | Indonesia | 4 | Pakistan |
| | | 1 | Kazakhstan | 2 | Philippines |
| | | 1 | Kyrgyzstan | 1 | Singapore |
| | | 4 | Malaysia | 2 | Sri Lanka |
| | | | | 1 | Thailand |
| | | | | 1 | Turkmenistan |
| | | | | 9 | Uzbekistan |

America Projects 81

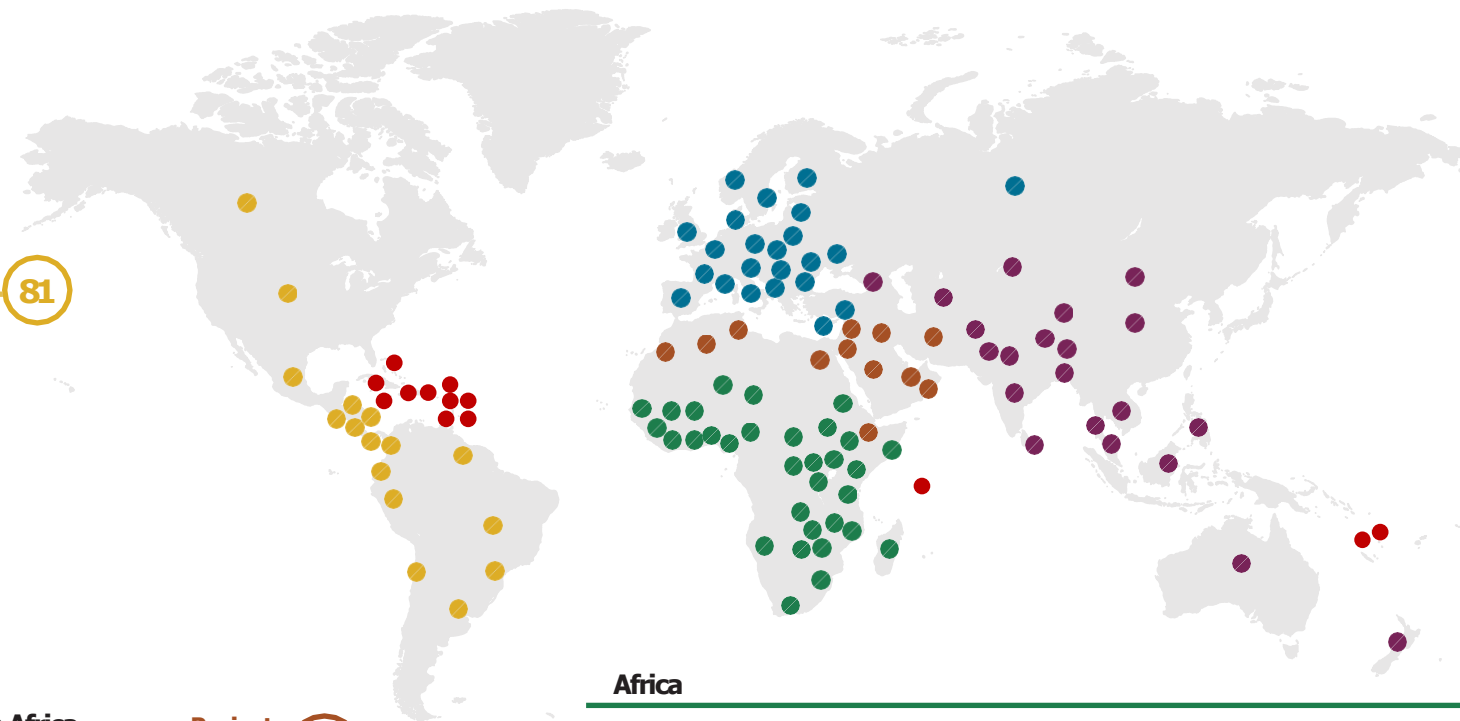
- | | | | |
|----|-------------|----|-----------|
| 14 | Argentina | 2 | Guatemala |
| 1 | Belize | 4 | Honduras |
| 8 | Brazil | 7 | Mexico |
| 2 | Canada | 3 | Nicaragua |
| 1 | Chile | 1 | Panama |
| 13 | Colombia | 1 | Peru |
| 3 | Costa Rica | 1 | Suriname |
| 5 | Ecuador | 1 | Uruguay |
| 1 | El Salvador | 13 | USA |

Middle East and North Africa Projects 29

- | | | | | | |
|---|----------|---|---------|---|--------------|
| 1 | Algeria | 2 | Iraq | 2 | Oman |
| 2 | Djibouti | 2 | Jordan | 1 | Saudi Arabia |
| 3 | Egypt | 1 | Lebanon | 4 | Tunisia |
| 4 | Iran | 4 | Morocco | 3 | UAE |

Africa Projects 167

- | | | | | | | | | | | | |
|---|--------------------------|---|---------------|----|---------------|----|------------|----|--------------|----|----------|
| 2 | Angola | 1 | Chad | 2 | Ghana | 4 | Malawi | 2 | Rwanda | 3 | Sudan |
| 1 | Botswana | 5 | Congo | 1 | Guinea | 2 | Mozambique | 8 | Senegal | 9 | Tanzania |
| 1 | Burkina Faso | 2 | Cote d'Ivoire | 1 | Guinea Bissau | 4 | Namibia | 4 | Sierra Leone | 4 | Togo |
| 1 | Burundi | 3 | Eswatini | 14 | Kenya | 1 | Niger | 1 | Somalia | 11 | Uganda |
| 4 | Cameroon | 4 | Ethiopia | 4 | Liberia | 35 | Nigeria | 13 | South Africa | 2 | Zambia |
| 1 | Central African Republic | 1 | Gambia | 3 | Madagascar | 2 | Other | 1 | South Sudan | 10 | Zimbabwe |



469 Total projects

IRENA's Engagement in the region of Central Asia: regional level

Astana Communiqué on Accelerating the Uptake of Renewables in Central Asia



June 2017, Nur-Sultan, Kazakhstan

Enabling Policy and Regulatory Frameworks for Renewables



Regional Workshop on Policy Support Mechanisms
October 2018, Baku, Azerbaijan

Renewable Energy Statistics and Data Collection



Central Asia Renewable Energy Statistics Training
September 2018, Abu Dhabi, UAE

Long-Term Energy Planning

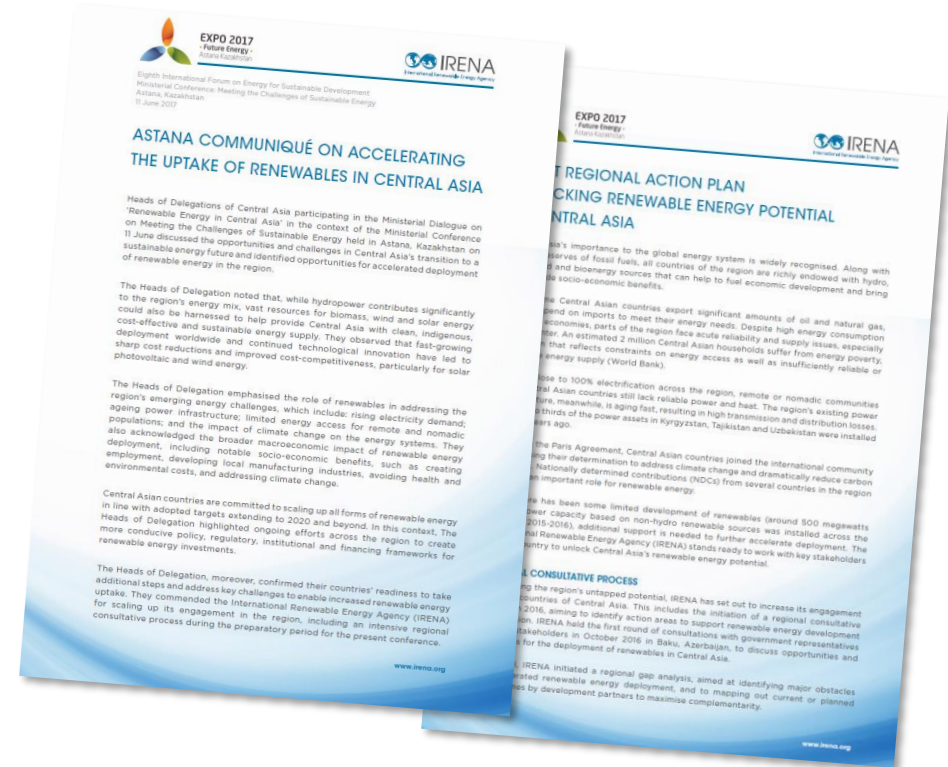


Central Asia Workshop on Long-Term Capacity Expansion Planning with a High Share of Renewables
March 2019, Nur-Sultan, Kazakhstan

Astana Communiqué on Accelerating the Uptake of Renewables in Central Asia - 11 June 2017

Action Areas

- Renewable Energy Statistics and Data Collection
- Policies and Regulation for Renewable Energy Deployment
- Resource assessment
- Integration on VREs into Power Grids
- Project Development Support
- Awareness Raising



Enabling Policy and Regulatory Frameworks for Renewables

Improving the understanding of design and implementation of renewable energy targets, policies and support schemes

Main insights:

- Need for adopting comprehensive RE policy with a long-term implementation roadmap
- Access to private finance remains limited, therefore fiscal incentives, along with support mechanisms are critical for RE uptake.
- Issues relating to technical aspects of grid access could be specified in legal documents, such as grid code
- There is an important need to account for the socio-economic benefits in policy-making process

Regional Workshop on Policy Support Mechanisms 17 October 2018, Baku



Renewable Energy Statistics and Data Collection

Enhancing capacities to improve the collection of reliable data on renewables

Main insights:

- There is a need to better define the data requirements
- Data collection can be enhanced through improvements in the legal and institutional framework to clarify methodologies and processes
- Mechanisms for data dissemination could be adjusted to ensure that the collected data is publicly available through online resources

Central Asia Renewable Energy Statistics Training



Long-Term Energy Planning

Improving understanding of technical and regulatory aspects and facilitate the integration of variable renewable energy into power systems

Main insights:

- Very limited application of comprehensive long-term planning tools and methodologies
 - Mostly with utilities
- Planning process could benefit from the inclusion of a wider set of stakeholders
- There is a strong potential for improved regional collaboration on long-term planning, especially involving transmission system operators

Central Asia Workshop on Long-Term Capacity Expansion Planning with a High Share of Renewables

14-15 March 2019, Astana



IRENA's Engagement in the region of Central Asia: regional level

VIRTUAL EVENT

Advancing the Energy Transition in Central Asia through Nationally Determined Contributions

 THURSDAY, 8 JULY 2021

 12:00 PM GST



- **encouraging more ambitious climate action** by all governments in Central Asia, including the submission of updated long-term climate/energy strategies in support of the goals set out in the Paris Agreement;

- **deepening the understanding on the opportunities offered by the energy sector** in the decarbonization efforts;

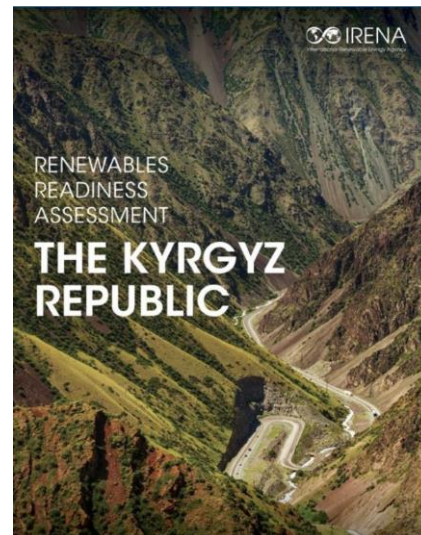
- **discussing the key role of mobilizing renewable energy financing at scale and de-risking investments** in Central Asia to accelerate energy transition;

- **sharing experience across the region** on long-term climate/energy strategies, and from analysis and studies by **regional and international institutions.**



IRENA's Engagement in the region of Central Asia: country level

- **Azerbaijan** : Renewables Readiness Assessment, December 2019
- **Kazakhstan** : Capacity building for enhancing energy statistics for NDC, 2023
- **Kyrgyzstan** : RRA with resource assessment and RE targets capacity building, December 2022
- **Uzbekistan** : SolarCity Simulator for Tashkent, November 2023
Financial close of 3 solar projects (Sherabad, Samarkand and Jizzakh) through IRENA's ETAF



- Adoption of comprehensive RE policy with a long-term implementation roadmap –
Involve utilities;
- Access to private finance: Fiscal incentives, along with support mechanisms;
- More comprehensive grid code, spelling Issues relating to technical aspects of grid access;
- Clearly account for the socio-economic benefits in policy-making process;

- Data collection can be enhanced: Improvements in the legal and institutional framework to clarify methodologies and processes;
- Data dissemination mechanism adjustment: Ensure that the collected data is publicly available through online resources;
- Inclusion a wider set of stakeholders in planning process;
- Build upon the potential for improved regional collaboration on long-term planning –
Involving transmission system operators

Mastering Project Submission and Readiness for ETAF Funding and Support



Webinar on the Climate Investment Platform



Presentar y preparar proyectos para el financiamiento y apoyo de ETAF: Énfasis en América Latina



شكرا لكم

谢谢

Thank you

Merci

Спасибо

Gracias

