

REGIONAL WORKSHOP ON RENEWABLE ENERGY IN CENTRAL ASIA

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Stakeholder mappings: Main findings of gap analysis

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RE in Central Asia Donors & development banks support

2005-2016

Limited number of donors and development banks have been providing support to renewable energy development in the region.

Total of 1.02 Billion USD

(preliminary data and excluding projects which cover other than RE)

Regional collaboration

 EU, UNECE, UNESCAP, NREL (starting)

Policy & regulatory assistance (country-based)

 ADB, UNDP, GIZ, USAid (planned), EBRD, IFC

Other technical support

- Data: UNECE/REN21, UNESCAP, IEA, GIZ
- Water/Energy: WB, UNECE, GIZ
- Energy efficiency: Energy Charter
- Mapping: UNDP

R&D

ADB (Uzbekistan)

Investments Grants

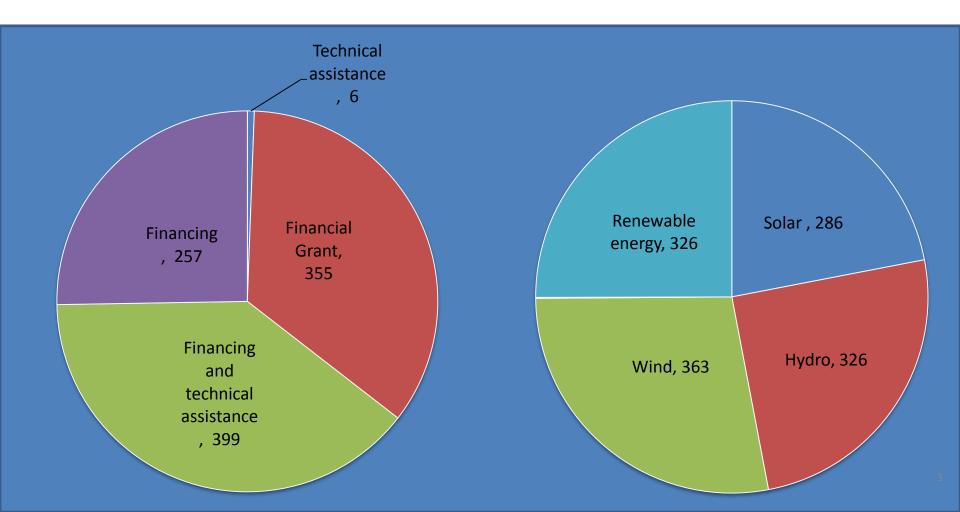
- CIF, EBRD, EIB, EDB, WB, AIIB (planned for large hydro)
- GEF

Breaking down the support



(Million USD)

TYPE TECHNOLOGY



Regional vs. Country support (Million USD)



Azerbaijan, 1 Turkmenistan , 6 Uzbekistan. 105 Tajikistan, 226 Kazakhstan Regional, 5. 673 Kyrgyzstan, 1

Additional regional projects

(not yet included in the overview):

GIZ: Capacity Development for Climate Policy in the Western Balkan, Central and Eastern Europe and Central Asia (REN21 UNECE reports)

UNESCAP: data, interconnections

WB: Energy-water programme

CASA-100: interconnections &

trade

NREL: policy & mapping tools

Which projects worked?





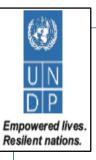
Utility scale:

Burnoye solar



Utility scale:

Samarkand solar



Small scale:

Solar heating & HPP in Tajikistan



Support to green economy development in Kazakhstan



Peer-to-peer learning

Future outlook



Regional: EU4
Energy (IEA, Energy
Charter, Energy
Community), NREL,
GIZ

Country-based: USAid, GIZ, UNDP, ADB

Technical assistance committed

Actively looking out for projects to support

- EBRD
- EIB
- EDB
- ADB

- USAid
- GIZ
- IEA
- Energy Charter
- Development Banks

Interested to consider collaborations on RE

Questions for today's panel



- 1. Which RE technical assistance/investment projects have you undertaken in the region?
- 2. What are your plans for 2-3 coming years?
- 3. What are your lessons learnt from supporting RE in the region?

This panel



- Aida Sitdikova, EBRD
- Gianluca Sambucini, UNECE
- Michael R. Curtis, USAID
- Mits Motohashi, WB
- Sergey Tulinov, UNESCAP

Where are the gaps?



Best practices: Best practices: South Africa, Australia, UAE, etc.

- 1. Regional collaboration on RE in 1 to 2 coming years: Indepth studies (cost-benefit analysis, SDGs & RE, VRE integration), policy dialogue and awareness raising
- Policy support: Energy pricing, electricity interconnections, RE & nexus, RE support schemes, VRE integration
- 3. RE & wider economic context: Economic diversification, socio-economic benefits of RE
- 4. Leveraging non-hydro RE for optimized power systems (in conjunction with high share of hydropower)
- 5. Capacity building: Government, banks, utilities, developers

Thank you

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