

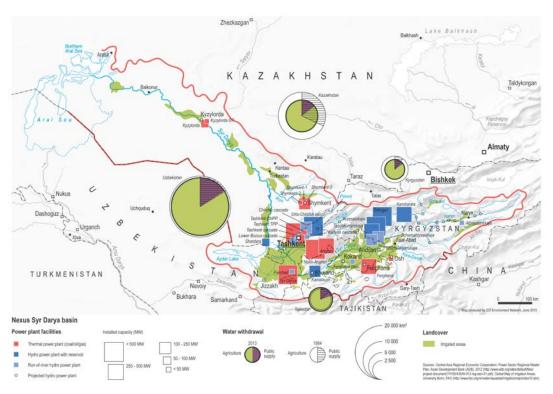
Dr. Annukka Lipponen
Environmental Affairs Officer
Water Convention secretariat
UNECE







## Nexus assessment process in the Syr Darya Basin



- Desk study
- Multisectoral workshop (Almaty, 2-4 December 2014) for the countries organized with GWP in cooperation with FAO
- Main intersectoral issues,
   some future scenarios, possible
   solutions jointly identified
- Scoping level analysis
- Participatory process:
   Consultations (e.g. NPDs)
- Funded by Finnish Ministry of Foreign Affairs

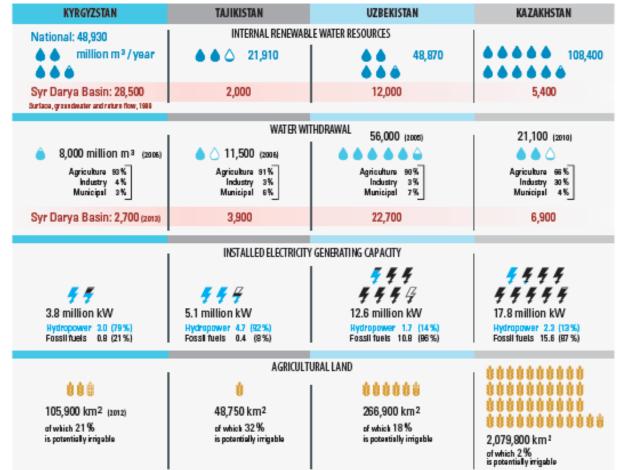
### Syr Darya Basin: indicators



#### SYR DARYA BASIN

River length River basin area 3.019 km 410.000 km<sup>2</sup>







# Possible solutions/synergic actions identified (a selection):

#### 1. National development with co-benefits

- Improving energy efficiency, reducing dependency on water for energy (diversification of sources
- Rationalizing water use (esp. in agriculture)

#### 2. Broader sustainable development and national policy coherence

- Developing mechanisms to identify and incorporate the wider nexus impacts in sector-based policy development leading to more integrated planning processes
- Improving basin-wide monitoring, data verification and exchange, and knowledge-sharing, including joint monitoring (e.g. water flows and quality), joint forecasting

### 3. Accelerate national development by furthering cooperation

- Improving intersectoral coordination at the basin level by increasing representation of and consultation with the relevant ministries
- Developing a regional energy market and exploring opportunities for energywater exchanges

# Possible UNECE contributions to the Nexus Dialogues in Central Asia



- a. Outputs (material for both further national & regional nexus dialogues)
  - Experience from application of the nexus assessment methodology (ENG, soon RUS)
  - b. Syr Darya assessment (a summary in RUS; an extended assessment in ENG and RUS)
  - c. A policy brief
  - d. Example to an official document of the Group of Experts on Renewable Energy

#### b. Awareness raising and capacity building on different platforms

- a. (in cooperation with OECD) National Policy Dialogues (KZ, KG, TJ) intersectoral, relevant ministries represented at a senior level
- b. Outreach to the energy sector in cooperation with UNECE Sust. Energy Division: e.g. Sustainable Energy Forum (Oct 2016, Baku)



### Some concluding remarks

- Recognition of the value of a nexus approach for sustainable development expanding to economic sectors, illustrated by the cooperation with the UNECE Group of Experts of Renewable Energy.
- A "menu" of possible synergic actions identified for the countries' consideration.
- A 4-country energy system modeled, that interfaces with other resource models: Subject to interest of the countries, with additional data, specific questions and opportunities could be explored (e.g. effect of investments)
- Opportunities to build further on this work: SPECA TWG, EUWI National Policy Dialogues, new project on Nexus Dialogue in Central Asia led by CAREC and to be financed by the European Commission.
  - http://www.unece.org/env/water/nexus.html
    - Annukka.Lipponen@unece.org