

Central Asia Nexus Dialogue Project: Fostering Water Energy and Food Security Nexus and Multi-sector Investment (Phase II)



Phase II: Demonstration projects

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nexus



Phase II: Transboundary small-scale demonstration projects

1 transboundary demonstration project will be approved during the 1st Regional Steering Committee meeting for the implementation during Phase II based on:

- Policy support and commitment from the interested riparian countries;
- Strong water-energy-food interlinkages and impact;
- Potential to provide the practical site for analytical exercises (Slide #5);
- Potential interest of hosting country for investment search and further project implementation.

Tajikistan-Uzbekistan-Kazakhstan

A water reservoir is located in Tajikistan. A hydropower station and irrigation canals are located in Uzbekistan.

Supplies i) water to 500,000 ha of irrigated lands in Kazakhstan, Tajikistan, and Uzbekistan; ii) electricity to Uzbekistan; and iii) water to largest thermal power station in Uzbekistan.

Farkhad water reservoir



Uzbekistan – Turkmenistan

The facility is located in Turkmenistan, but belongs to and operated by Uzbekistan. Supplies i) water to 425 000 ha of irrigated lands in Turkmenistan and 779 300 ha in Uzbekistan; ii) electricity to Uzbekistan; and iii) drinking water to Khoresm Region and Karakalpakstan.

Tuyamyan hydro-complex



Kyrgyzstan – Kazakhstan

Located in Kyrgyzstan, Kirov water reservoir regulates the year-long river discharge of Talas River to irrigate the lands in Kyrgyzstan and Kazakhstan.

Supplies: i) water to irrigated lands of 35,000 ha in Kyrgyzstan and 45,000 ha in Kazakhstan.

Kirov water reservoir



Kyrgyzstan – Kazakhstan

Up to 40% of the water resources from Orto-Tokoi water reservoir, located in Kyrgyzstan, are lost throughout the Chu Valley before they reach Kazakhstan due to water pits that absorb the water resources and release them in other places on the territory of Kyrgyzstan.

Orto-Tokoi water reservoir



Phase II: National small-scale demonstration projects

3 national demonstration projects will be approved during the 1st Regional Steering Committee meeting for the implementation during Phase II based on:

- Policy support and commitment from the hosting country;
- Strong water-energy-food interlinkages and impact;
- Potential to provide the practical site for analytical exercises (Slide #5);
- Potential interest of hosting country for investment search.

Kazakhstan

Piloting the growing of saxaul seedlings with a closed root system, which is more suitable for climate condition of Aral Sea and has more survival rate.

Piloting the closed root system



Tajikistan

The project will help to identify the technical and institutional challenges and promote the energy efficient technology at state pumping stations.

Technical and financial assessment of national pumping stations



Turkmenistan

The pilot project jointly implemented with UNDP in Ashgabat during Phase I will provide the analytical evidence on the social and economic change with the introduction of Nexus approach in remoted areas.

Sardob reconstruction (analysis)



Uzbekistan

Design estimates of the touristic routes and infrastructure demands i) the recreation site "Sukok" in Tashkent Oblast; ii) Zarafshan National Park; iii) Bobotagi and Uzun forests.

Touristic eco routes in national parks



Uzbekistan

Before the large-scale introduction, ASMPE-NS will be piloted in a few pumping stations to show the cost and benefits, including for potential investors.

Distance control and monitoring of the electricity consumption



Phase II: Scope of work to be applied on approved demonstration projects

i. 4 holistic institutional and social – economic assessments to be developed, including:

- Social and economic analysis;
- Institutional and legislative analysis of the operation modality;
- Stakeholder analysis;
- Baseline indicators and analysis of WEF resources management;
- Investment needs analysis;
- Summary of challenges and institutional and technical recommendations.

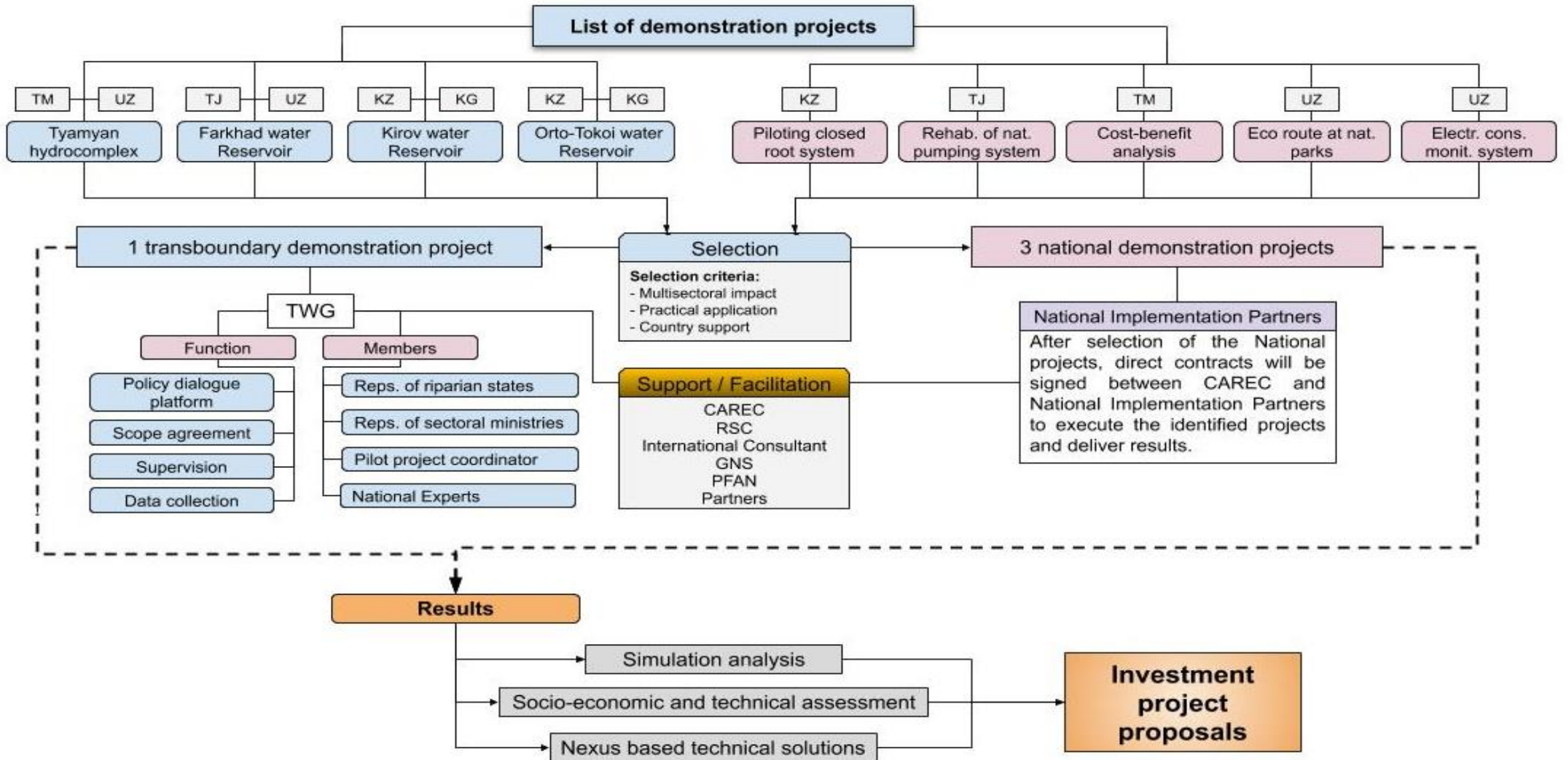
ii. 2 simulation analysis (cost-benefit or trade off) to be developed;

iii. 3 technical solutions will be recommended and possibly piloted at a few sites;

iv. 2 investment-ready proposals to be developed under the grant-based coaching of PFAN, global network of financing experts hosted by the United Nations Industrial Development Organization (UNIDO) and the Renewable Energy and Energy Efficiency Partnership.



Phase II: Implementation scheme of the demonstration projects and final deliverables



Thank You

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