

NATIONAL DEMONSTRATION PROJECT IN TAJIKISTAN:

"IMPROVEMENT OF THE SYSTEM OF CONTROL AND MONITORING OF ELECTRICITY CONSUMPTION IN THE PUMPING STATIONS AND MODERNIZATION OF LARGE PUMPING STATIONS USING ENERGY-SAVING TECHNOLOGIES IN THE SUGHD PROVINCE IN THE REPUBLIC OF TAJIKISTAN"



Objective

To advance the energy efficiency through digitalization of electricity consumption and monitoring at pumping stations and modernization of Golodnostep pumping station (GPS) in Sughd Province.

<p>Implemented by: National consultants</p> <p>Implementation period: July 2021 – February 2022</p> <p>Location: Sughd Region of Tajikistan</p>	<p>Beneficiaries: Local population, public and private sector</p> <p>Supported by: European Union project "Nexus Dialogue in Central Asia" and "Laboratory of Innovative Solutions for the Water Sector of Central Asia" (CAWEP)</p>
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Over 90% of land in Tajikistan is occupied by mountains, while 50% of irrigated lands require pumping stations to lift the water from rivers and canals.

Glodnostep pumping stations built in 50-70s lack energy efficient technologies and smart metering systems, which makes it difficult to calculate accurate electricity consumption.



Low solvency of farmers and end consumers, high subsidization of electricity tariff, low water usage tariff and fee collection, inefficiency of irrigation systems under rapid population growth make agricultural sector unprofitable and lead to the instability of WEF security.

Activities to be implemented:

Task 1	Task 2	Task 3	Task 4
Review of the operation of pumping stations at the national level (examination of metering at 173 pumping stations)	Design the Concept on digitalization of electricity consumption metering at pumping stations in Sughd Region	Carry out the energy and water audits at 2 pumping stations (by Grundfos)	Develop investment proposal for the modernization of Golodnostep Pumping Station considering the application of energy efficient technologies

