

Project Background

Sudan has suffered from limited water resources, such as low annual rainfall less than 300 mm in most of the country and it became constraints for economic development and daily life of people. Water demand (32.1 km³ per year^{*1}) has already exceeded water resources amount of the whole country, 29.5 to 31.5 km³ per year. Besides, increasing national population with 3.2% of annual growth rate put pressure on water balance further.

Water resources unevenly exist in regions in Sudan. Non-Nile area has suffered from water shortage compared to Nile area. It is one of the main reasons of low access rate of safe water, 55%, in Sudan. Other challenge is water allocation to each water-use sectors. Currently, 90% of water is consumed for agriculture, then only 3% for drinking water. Another issue is improvement of water resources management, such as hydrological observation system for groundwater and dam operation.

In this serious water conditions as above, Sudan needs to update water use strategy at national level as well as water resources development plans based on scientific data. Besides, water resources management with improved

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Phase-2

Component 1

coordination mechanism among stakeholders to reduce conflict for water allocation and enhance water use efficiency.

Component 1

Component 2

Integrated Water Resources

Management

The Project for Enhancement of IWRM in The Republic of The Sudan

Nov. 2016

Implementing Agency: Water Resources Technical Organ

Target area: Entire Sudan Detailed survey of water balance: Main 10 areas in Non-Nile Area Pilot Activity: 2 or 3 areas out of above 10 areas

Project Period: Phase1: Aug. 2016 to Aug. 2017 Pahse2: Oct. 2017 to Aug. 2019 Main Counterparts Main counterpart organizations are WRTO of the Ministry of Water resources, Irrigation and Electricity, and relative departments.

Items

Preparation

Output 1

Output 2

Output 3

Output 4

Data collection

Phase-

Around 10 counterparts join the project full-time. Counterparts will play a leading role in calculation of water balance, pilot project in the target areas and consensus building through the IWRM process.

IWRM process. **Expected result of the project** is to maximize the resultant social benefit (especially in water use) in an equitable manner by applying the IWRM process (refer to the figure on the right).

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Time

Schedule



Implementation period

is 3 years from Aug. 2016. Main activities in Phase 1 are calculation of water balance, identification of issues on water resource management and preparation of IWRM plan. Main activities in Phase 2 are pilot project of the detailed IWRM and making recommendations.