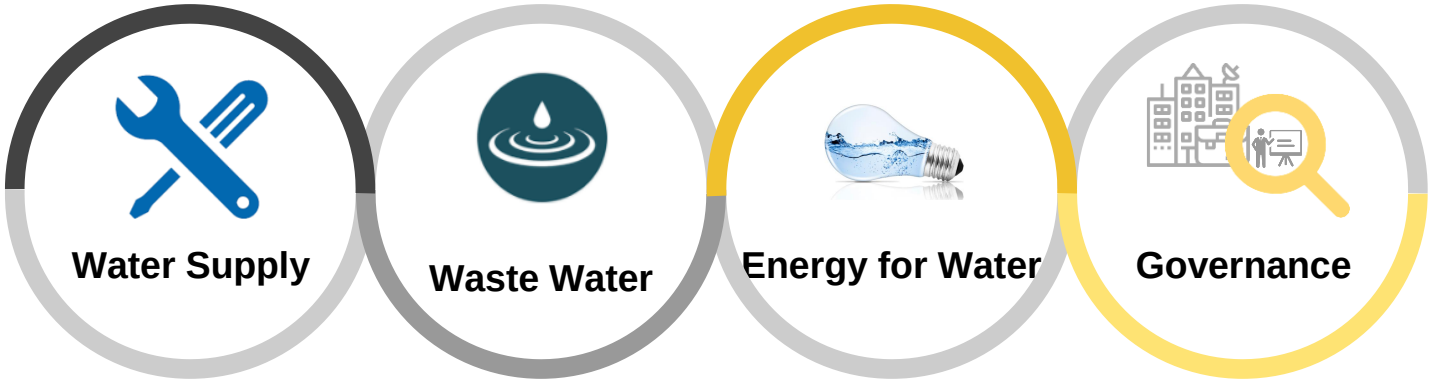
GIZ Water Portfolio Jordan



التعاون الألماني
DEUTSCHE ZUSAMMENARBEIT

Steering and Monitoring Structure

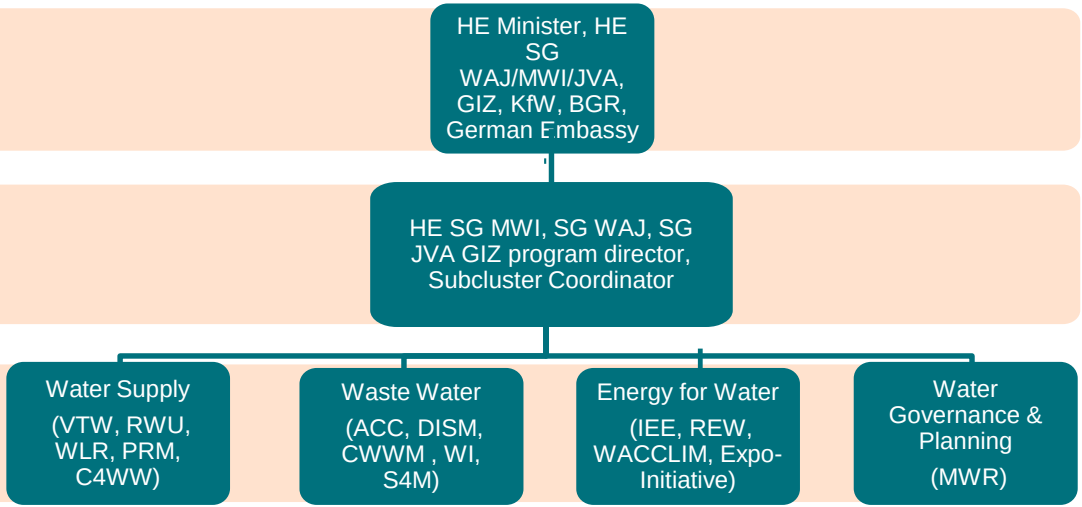
Program Director: Frauke Neumann-Silkow
Program Deputy Director: Sameer Abdel-Jabbar

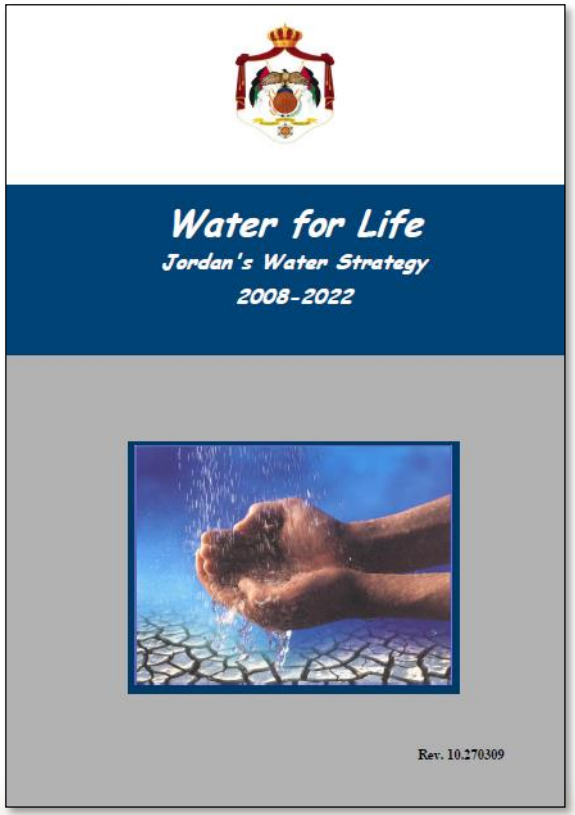
German-Jordanian Cooperation in the water sector (quarterly meetings)

GIZ-Jordanian Water Portfolio (quartely meetings)

GIZ Subcluster (every 6 weeks TL-FP & Team), yearly platform meetings.

Individual projects (meetings on demand with relevant stakeholder)





Sub Cluster Water Governance and Planning

Our approach of improving governance in the water sector

Develop Strategies and Policies

Come up with a clear strategic orientation for the water sector..

Improving the water resources modelling and planning

Improve modelling capacities and integrated planning to allow for an efficient and sustainable use of limited resources

1 GIZ Project

MWR

Support effective irrigation in the Jordan Valley

Support the reform for decentralized irrigation management. Strengthen capacities of WUA to take over full responsibility for water allocation and maintenance.

9.0 Mio. EUR

current budget of MWR project

Strengthen leadership and management skills

Support institutions to apply the KAA principles

Effective Regulation and Private Sector Participation

Support regulatory framework conditions and PSP to improve sector performance.

Major achievments and future milestones

- Sector policies approved, Action Plans for implementation and monitoring drafted (MWI)
- Modelling unit established in MWI, basin model and country-wide model operational (MWI)
- Vision and Action Plan for decentralized irrigation management approved (JVA)

Future joint milestones

- WEAP Model is further improved and used for **strategic planning** and forecasting (linked to groundwater model MODE FLOW)
- Updated **Master Plan** in place.
- Irrigation in **South Shouna is efficiently managed** (operation and maintenance) by **one** water user association > significant reduction in water losses and illegal water connections.
- **Strengthened regulation** and oversight function. Strong and effective performance monitoring of utilities in place.
- At least two further O&M contracts with the **private sector** concluded.


Sub-Cluster
Wastewater

Our approach of improving wastewater sector in Jordan

Improving Operation and Maintenance

Improving wastewater management competencies in WWTP to secure the safe disposal / reuse of treated wastewater.

Improving Sludge Management

Improving collection, transport, and treatment of sludge from sanitation systems

Decentralized Wastewater Management

Promote decentralized wastewater management in densely populated areas where a proportion of population is not connected to a sewerage network.

Institutional & Human Capacity Building

Support institutional and individual capacitiy development in the wastewater / sanitation sector

Awareness Raising

Communicate and improve the image of wastewater management with focus on different target groups.

5 GIZ Projects

are currently ongoing (ACC, CWWM, DISM, S4M, WI)

22.7 Mio. EUR

current budget of wastewater projects in Jordan

Major achievements and future milestones

- ✓ **Sludge assessment** conducted
- ✓ **Co-digestion concept** developed
- ✓ **Concept for reuse** and decentralized wastewater treatment plants developed
- ✓ **Training** for operation and maintenance delivered

- ✓ Technical sustainable management (**TSM)** is implemented in wastewater treatment plants
- ✓ Improved **Operation and Maintenance** of waste water management in YWC
- ✓ 100 % of **operational staff** in YWC is trained and **certified**
- ✓ **Co-digestion plant** is operational in Mu'ta
- ✓ **Greywater treatment and Hausmeister-concept** in mosques operational (awareness raising)
- ✓ **Sludge is used** in range lands
- ✓ **Decentralised** WWTP Feynan is operational

Subcluster Water Supply

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Our approach of improving the water supply in Jordan

Improving O&M, Infrastructure

Introduction of more efficient processes and work flows as well as improving supply infrastructure to improve operation and maintenance to reduce NRW.

Improving the Economic Performance

Introduction of more efficient commercial management processes like metering, billing & collection of water bills, to increase revenues and reducing accounts receivables.

Institutional & Human Capacity Building

Objectives are to improve the capacities of sanitation professionals and experts in the water sector in Jordan.

Awareness Raising

Establishment and conducting of stakeholder dialogues between water providers and water users.

Water Resources Protection

Protection of Dams through improving the living conditions of Jordanian and Syrian families

4 GIZ Projects

are currently ongoing (VTW, PRM, RWU, WLR, C4WW)

42.5 Mio. EUR

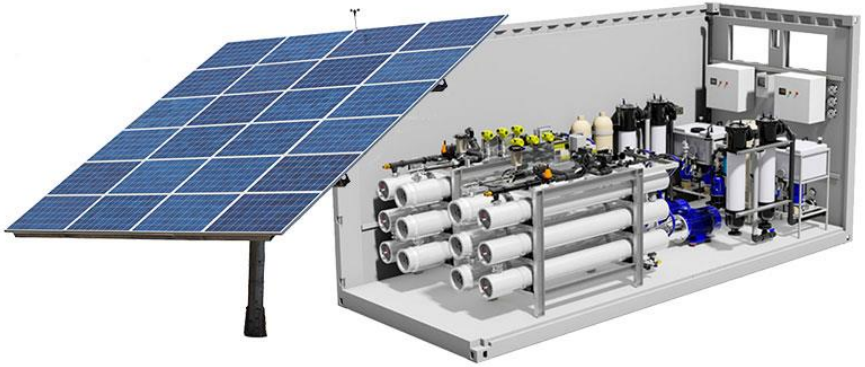
current budget of Water supply projects in Jordan

Major achievments and future milestones

- Operational staff of WAJ is certified (100), successful water skills competition implemented (winner team 6th place at IFAD, methodology of a Training Needs Analyse in WAJ is anchored
- Installation of 1890 water roof top tanks and 1900 water saving devices in Bait Ras, Ebder & Doaqarah.
- *Reduction of NRW in communal water infrastructure by 25% through networks rehabilitation (25 km)*
- *Mafraq increasing collection by 39% (1.2 Mio JOD), BWA collection efficiency in 2017 reached the level of 93%.*

Future joint milestones

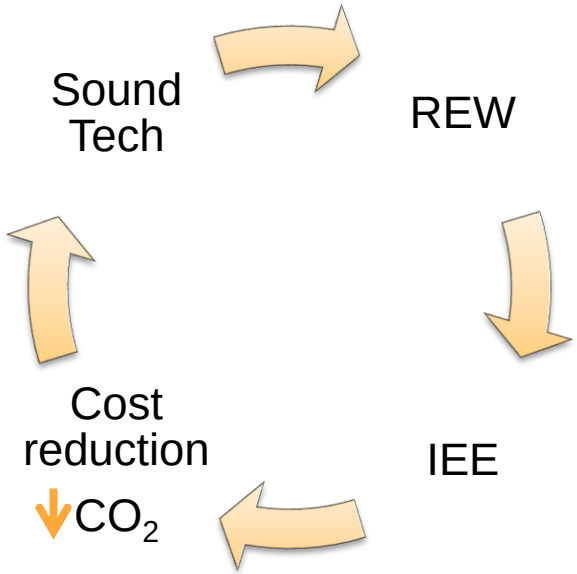
- Marka Training centre (WAJ academy) is rehabilitated and starts its work
- Rehabilitation of 75 km of the drinking networks in 6 communities in Irbid, expected NRW reduction from 46 % to 25%
- Erosion control measures at dam sites in place
- Preparation of a proper handover of all tasks to Mafraq staff, preparing BWA for the taking over of Miyahuna.



giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

ENERGY *for* WATER

Our approach to improve “Energy for Water” balance in Jordan



Advancing RE in Water Sector

Improving conditions for adopting RE in water utilities

Improving EE in Water Sector

Improving balance of energy in water services to reduce costs

Towards Carbon Neutral Water Utilities

Implementing measures to reduce carbon throughout the water cycle

Promoting Sound Environmental Technologies

Communicate and improve adoption of sound technologies for EE and carbon reduction

4 GIZ Projects

are currently ongoing (REW, IEE, WaCCliM, ExI)

10 Mio. EUR

current budget of Energy for Water projects in Jordan

Major achievments and future milestones

- Energy efficiency (EE) assessments were undertaken in the past and piloted EE in water pumping with private sector participation e.g. in Wala / Lib
- Energy efficiency and Green House Gases GHG reduction (targets) are embedded in utilities e.g. in Miyahuna
- Tools for assessing GHG reduction potentials and improving EE are in place and accordingly measures are implemented such as retrofitting Madaba Pump Station.
- Sustainable technologies are being introduced at Wadi Musa, Kufranja and Ramtha WWTPs to reduce energy and thus improve overall performance.

Future joint milestones

- **Database for operations in the water sector** is developed and supports decision making and planning processes
- Standard **Energy Management System** is developed for jor. water sector and implemented in selected utilities
- **New renewable energy projects** are developed and ready for implementation to serve water sector
- Feasibility of using **Renewable Energy for Water Desalination** is investigated
- **Further RE/EE measures are adopted by water utilities** and for certain measures via climate financing