







Scaling Up A Global Learning Platform In Alignment With KGGTF Goals

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Contents

01	K-water & K-water HRD Institute (Academy)
02	World Bank KGGTF Partnership Cases
03	Scaling Up Through Strategic Collaboration
04	Conclusion





Introduction & Overview



K-water Overview

K-water, established in 1967 as a water-specialized public company, has played a leading role for securing safe and stable water nationwide.

Furthermore, we transform to digital water management for responding to climate change proactively using 4th industrial revolution technology such as big data, Al and IoT.



Water Resources **Major Business** Management 55 Integrated Water Management Facilities 20 multipurpose dam, 3 flood control dam, 14 water supply dam, 16 multipurpose weir, estuary bank, and Ara waterway



(as of 2024)

Water supply Capacity

125 billion m³/year

* 61% of the national capacity * 94% of the national capacity

Flood control Capacity

5_3 billion m³

Clean Energy Production



Renewable Energy Capacity

1_417 MW

 1,093MW(HPP), 254 MW(Tidal), 62MW(Solar), and 8MW(Wind)

Annual Renewable Energy Production

2.431 GWH

* No. 1 Renewable energy producer in Korea

Water Supply & Sewerage Treatment



Water supply Capacity

18-56 million m³/day

50 multi-regional waterworks,

23 regional waterworks,

16 sewage, and 4 industrial waterworks

* 49% of the national capacity

Smart Water City

Development of environment-friendly cities resilient to water disasters by applying ICT-based urban water management and smart water circulation technology

Sihwa Multi Techno Valley (MTV), Songsan Green City, and Busan Eco Delta City (EDC), etc.





The Journey of Digital Transformation

Driving step-by-step innovation, from R&D to standardization 77

M Al Water Treatment Pilot

- (Open) The first Al-driven water purification plant in Hwaseong
- (Effect) Chemical reduction 4%







- Simulates Sumjin Basin disasters; enables proactive water control.



[™] Global Lighthouse

K-water Al Water Treatment Plant:
 World's 1st water utility recognition



M DX Roadmap

- Formal Strategy launched focusing on Al, DT, SWNM







™ 5 River Basin DT

Digital Twin

Pilot for Flood

2021

Digital Twin, AI, SWN rolled out nationwide.



Global Collaborations

Jeddah ^{Saudi} Arabia: Phase 1 completion of DT Platform ^(Feb '25). Valley Water ^{CA, USA}: MOA of Guadalupe Basin DT Pilot ^(Oct '25~) Al WTP Building Tech ISO International Std Drft Finalized ^(June'25)





K-water HRD Institute (Academy)

It was established in 1982, as a hub where its water experts provide professional learning courses not only for in-house staffs but also for related government officials, private corporate employees and international participants.

We offer high quality educational contents based on the tech & know-how that we have accumulated over more than half the past century.



Educational Features

Hands-on Learning, Combining Theory and Practice

Excellent Infrastructure for Training



02 WB KGGTF Partnership Cases

Contribution to Partner Countries



Consulting & Capacity Building (Completed)

Training modules

Cyber materials by WB

Uganda's Climate Resilience in Water Resources Management

- Partner: WB Uganda (completed)
- ✓ Client: Uganda Ministry of Water Environment /Water Resources Institute
- ✓ Term: March `20 `Dec. `22 (34 months)
- ✓ Objectives: Training modules development and Training of Trainers



Hybrid Training



Training (up: KOR, down: UGA)

* Image Source: K-water (2022)

Lake-wide Water Quality Improvement in Lake Victoria Basin

- ✓ Partner: WB Water GP (completed)
- ✓ Client: East Africa Community Lake Victoria Basin Commission
- ✓ Term: 30 May 2 June, 2023
- ✓ Objectives: Firsthand learning for lake-wise WQ improvement, Discussions with diverse stakeholders



Forum with Korea WSS **SMEs**

* K-water (2023)



Visit to KECO (WWTPs Tele. Monitoring System)



Workshop with GCF



Knowledge Exchange & Capacity Building (ongoing)

Water Utility Digitalization

WB Water Digital Team





- Knowledge exchange and discussions on WSS secter
- ✓ digitalization Government officers, Enterprises & WB staffs of Interest in developing countries (Asia-Pacific, '24-)

Expert Exchange for WSS & WRM

WB Jordan, WB Kenya, WB Angola





- ✓ Knowledge exchange on river basin rehabilitation (Jordan, '25.10)
- ✓ Knowledge exchange on small WSS facilities (Kenya, '25.11)
- ✓ Knowledge exchange on water resources management (Angola, '26)



Consultation Case: Uzbekistan & Central Asia

1st Phrase: Uzbek Capacity Building & Water Academy ('22~24)



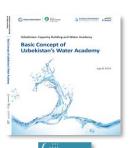
Dispatch of Experts T/F Team and Current Status Investigation



Academy Concept Designing,
Local Training System & Modules Outlining



Implementing Invitational, Local training and ToT(Training of Trainers)





2nd Phrase : Consulting Project based on the 1st Project Perform. ('25.8)

[Local Training Center Strengthening – Modul Develop]

[Young Professional Internship - Mentoring Program]

[Private Sector Partnership Facilitation]



Establishing Central Asia Regional Learning Platform

New Proposal for Learning Platform Expansion to Central Asia Countries ('26)



Active Collaboration & Friendly Cooperation

Strategic Hub & Coordinator







- Strategy
- Financial support(Fund Team)
- Project supervising(Local)





- Experience & knowhow
- Technological support
- High-quality program





Regional Water Service Provider

Cowork



O'ZSUVTA'MINOT

AKSIYADORLIK JAMIYATI

- Development & Implementation
- Participation
- Program Operational support





03 Scaling Up Through Strategic Collaboration

Green Growth: The Path to Sustainable Jobs



From Fund to Bank: Evolving Broader Collaboration

KGGTF Grant Projects

Innovation & Pivotal Role

WB GP Engagement

Strategic Alignment with Global Practices

Global Scaling

Mainstreaming into Global Operations

Water Digitalization Collaboration

- ✓ May. 2025, LOI between K-water & Water GP Digital Team
- ✓ Nov. 2025 1st Program Launched
- ✓ 1st quarter of 2026, 2nd Program (in discussion)

"Water GP + Digital GP + KGGTF KGID" Collaboration

- ✓ Special Session on Water Digitalization with Water GP
- ✓ Bilateral Meeting with Local Lead Teams(India, Mongolia, etc)
- ✓ Special Meetings with Digital GP

Physical Infra Development & Human Capital Enhancement

- ✓ (Infra) Water Project Expected
- * ex) Energy Infra Ongoing Project : Solomon Island Hydro Power
- ✓ (Human) Expansion of Knowledge Exchange & Capacity Building

KGGTF has evolved from a catalytic fund to a strategic enabler, fostering cross-GP collaboration and global impact.



04 Conclusion

Words for Wrap-up



Partnership & more

More Comprehensive & Sustainable Service Authenticity & Unwavering Commitment

" Embark on the Journey, Together!"

