Green Water Project Development
- Case study and Opportunity

Kyungjin SHIN, PhD
Director of K-water Europe Office (in Paris)
K-water (Korea Water Resources Corporation)
Korea Water Resources Corporation
World’s Best Comprehensive Water Platform Provider

Establishment
- In 1967
- Headquarters in Daejeon

Financial Highlights
- 100% Government-owned enterprise
- (Total Assets) USD 27 billion
- (Revenue) USD 4 billion
- (Credit Rating) AA2 (Moody’s)
  * based 2021

Employees & Offices
- (Employees) 6,600 (approx.)
- (Offices) 80 (approx.)

AA2
Track Records

Overseas Business - ODA Implement (grant, loan), PPP development and O&M

- 34 Countries
- 99 Projects
  (1994 ~ 2021)

- 13 Countries
- 29 Projects
  (based 2022)

Project Partners

Ministry of Environment

Investment
ODA projects
Liaison Office

Completed

Ongoing

K-water Overseas Office, 2023 (present)
ODA projects (grant) : Developing and Management

(Fund) IECC under MoE (Min. of Environment)
(Int’l Environment Cooperation Center)

Implementing Agency of **Green ODA**

**GHG Emission Mitigation**
- Hydropower, Micro-hydropower
- Floating photovoltaic system

**Energy Efficiency**
- Smart water management based ICT, NRW reduction
- Masterplan for Smart waterfront city

**Climate Changes Adaptation**
- IWRM (Integrated Water Resources Management)
- Early warning system for flooding
# Green ODA Process with K-water & MOE

## Demand Survey & Investigation

### (N-n) 01

- RC suggest K-water for their needs
- RC provide data & information to K-water (pre-FS report, etc.)
- K-water expertise survey site and RC support K-water
- RC and K-water make and submit a PCP together

## Application, Review & Approval

### (N-1) 02

- PCP & LOI submitted by every Feb.
- Review and approval process through Sept.
- Confirmed in Dec.

## Implementation

### (N) 03

- Project implementation
- Management
# Green ODA pipelines (2022, candidate)

<table>
<thead>
<tr>
<th>Classification</th>
<th>Project</th>
<th>Budget</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan</td>
<td>① Indonesian floating photovoltaic M/P</td>
<td>0.5 mil USD</td>
<td>Reduction type</td>
</tr>
<tr>
<td></td>
<td>② Carbon neutrality tap water and smart water management M/P in North Dabao State in Philippines</td>
<td>0.5 mil USD</td>
<td>Reduction type + Efficiency type</td>
</tr>
<tr>
<td>Investigate</td>
<td>③ Establish Indonesian carbon neutrality tap water</td>
<td>22 mil USD</td>
<td>Reduction type + Efficiency type</td>
</tr>
<tr>
<td></td>
<td>④ Floating photovoltaic in Frette, Cambodia and renovate old water reservoir</td>
<td>0.5 mil USD</td>
<td>Reduction type + Adaptation type</td>
</tr>
<tr>
<td></td>
<td>⑤ Low carbon smart water management in Kabankalan City, Philippines</td>
<td>0.5 mil USD</td>
<td>Efficiency type</td>
</tr>
<tr>
<td></td>
<td>⑥ Consolidated water management at basin of Sanke River, Cambodia</td>
<td>4 mil USD</td>
<td>Adaptation type</td>
</tr>
<tr>
<td></td>
<td>⑦ Flood forecast and alarming at Sebanghyiang, Laos (On-going)</td>
<td>5 mil USD</td>
<td>Adaptation type (On-going project)</td>
</tr>
</tbody>
</table>

**Total**: 45 mil USD
PPP Project (investment) in Water Sector

1. Grant Aid
2. EPCF Loan
3. EDPF Loan
4. PPP (K-water)

Grant & EDCF Loan (US$ 133 Mil.)
EDPF Loan (US$ 207 Mil.)
Conveyance Pipe (>50km)
Karian Dam

Unsolicited PPP* / K-water (US$ 165 Mil.)

Karian Bulk Water Supply Project (Indonesia)
Future Collaboration

K-water Global Division
- Europe Office (Paris) : Africa
- America Office (W.DC): North and Latin America
K-water Academy
- Human Resources Development Division

Europe Office (since 2022)
- (Kenya) Pre-FS study for NRW reduction and Smart Water Management in Nairobi (2023.11~)
- Co-work for developing Green Water Project and connecting water technology company

<NRW status in Nairobi, Kenya>
Thank you

Kyungjin SHIN

kjshin73@kwater.or.kr