

# Korea Water Resources Corporation ( K-water )



*Your partner for Guaranteed Success*

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# 1. General Information

## 1-1 Overview

- ✓ **Incorporated in 1967**
- ✓ **Headquartered in Daejeon, Korea**
- ✓ **State-owned water utility (government share 90.2%)**
- ✓ **Multi-disciplinary businesses of water, energy, and land development**
  - Water resources development & management
  - Bulk water and PPP-based water distribution & wastewater services
  - Electric power focusing on renewable energy
  - Industrial complex & new town development
  - Other professional services



## 1-2 Organization



Organization

4 Divisions, 7 Regional Headquarters, 73 Branches,  
5 Representative Offices (abroad)

Employee

4,064 (as of 2007)



# 1-3 Business Domain

Water Resources Facilities



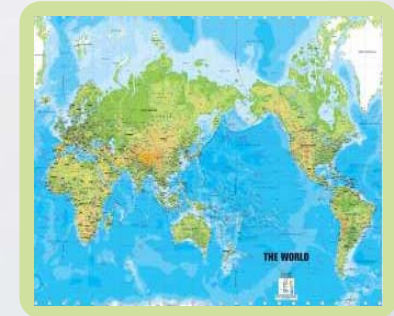
National Industrial Complexes



Bulk Water Service



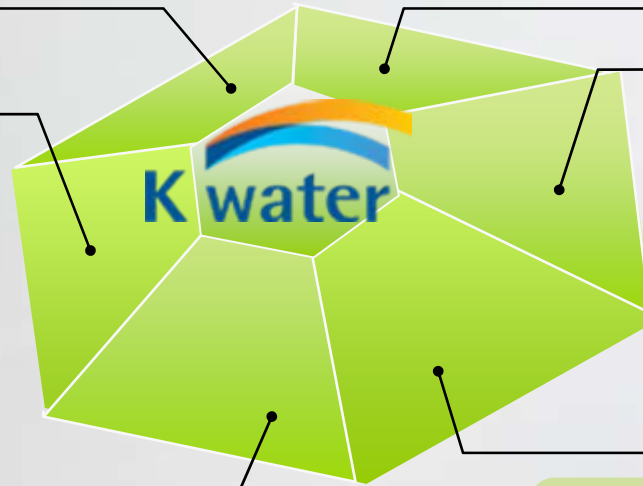
International Business



Sewage System



PPP-based Water Service



## 1-4 Business Scope

### ✓ Water Resources Management

- ▶ Dams
- ▶ Flood Control
- ▶ Hydropower
- ▶ River Basin Management

### ✓ Water Supply & Sanitation

- ▶ Water Source Development
- ▶ Wastewater Treatment
- ▶ Water Storage & Distribution System
- ▶ Water Treatment
- ▶ Sewerage

### ✓ Urban Development

- ▶ Industrial Sites Development
- ▶ New Town Development

### ✓ Environmental Services

- ▶ Environmental Impact Analysis
- ▶ Environmental Audits
- ▶ Environmental Management

### ✓ Water Business Management

- ▶ Economic & Financial Analysis
- ▶ Privatization of Water Sector
- ▶ Business Planning
- ▶ Training

### ✓ Consulting Service

- ▶ Master Plan
- ▶ Investigation & Survey
- ▶ Construction Supervision
- ▶ Feasibility Study, Design
- ▶ Tender Management
- ▶ Operation & Maintenance

# 2. Finance and Manpower

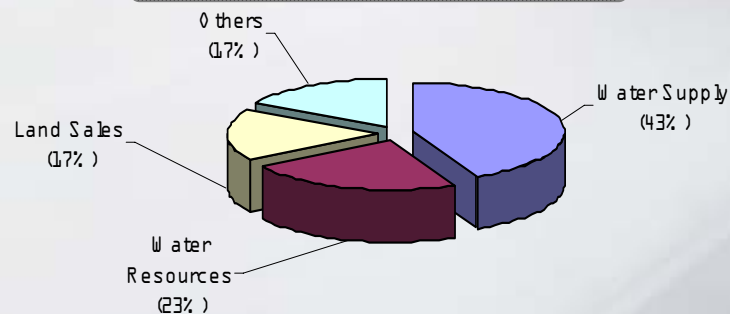
## 2-1 K-water's Finance

- ✓ **Strong financial performance and sound financial structure**
- ✓ **Easy Access to domestic & international financing with a high credit**
  - Higher credit ratings granted than sovereign ratings on Korea by **Moody's(A2) & S&P(A)**
- ✓ **Low debt ratio (16%) and high liquidity**

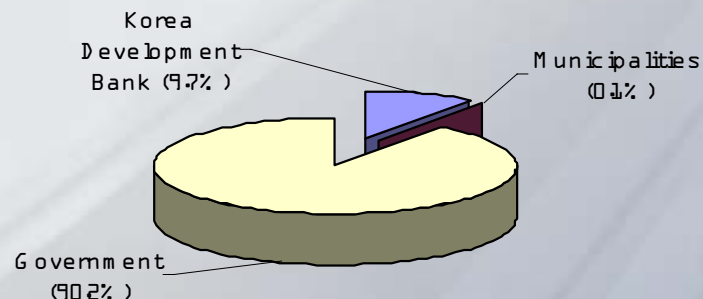
### Financial Highlights

US Dollars (in million)	2006	2005
<b>OPERATING PERFORMANCE</b>		
- Revenue	1,852	1,591
- Operating Income	313	298
- Net Income	234	219
<b>FINANCIAL STATUS</b>		
- Total Assets	12,261	11,121
- Total Liabilities	1,876	1,812
- Sharehold	10,385	9,307

### Revenue by Business



### Shareholders



## 2-2 Manpower

### ■ Permanent Staff

Specialty		Number
Engineers	Water Resources	192
	Water Supply	206
	Soil	22
	Forest	41
	Geotechnical	22
	Construction	80
	Mechanical	484
	Electrical	483
	Telecommunications	195
Specialists	O & M	343
	Water Planning	38
	Environmental	291
	IT	40
	Contract	33
	Accounting	20
	Training	43
Architects		40
Legal Experts		9
Financial Analysts		9
Economic Analysts		190
Water Quality Analysts		32

### ■ Staff's Academic Degree

Degree	Number
Doctorates	104
Masters	481
Bachelors	2,178

### ■ Staff's Licenses

License	Number
Professional Certified Engineer	132
Certified Engineer	1,782



# 3. Projects

## 3-1 Domestic Projects

### Water Resources Facilities

- **Dams : 15 sites**
  - Water Storage : 11,506 mil<sup>3</sup>
  - Power Generation : 1,042 thousand kW
- **Estuary Barrage : 1 site (18.7m X 2,230m)**
- **Under Construction : Dams – 7 sites**

### Bulk Water Service

- **Facilities : 26 sites**
  - Water Supply : 16.5 million<sup>3</sup>/day
  - Length of Pipes : 3,842 km
- **Under Construction : 18 sites**

### PPP-based Water Service`

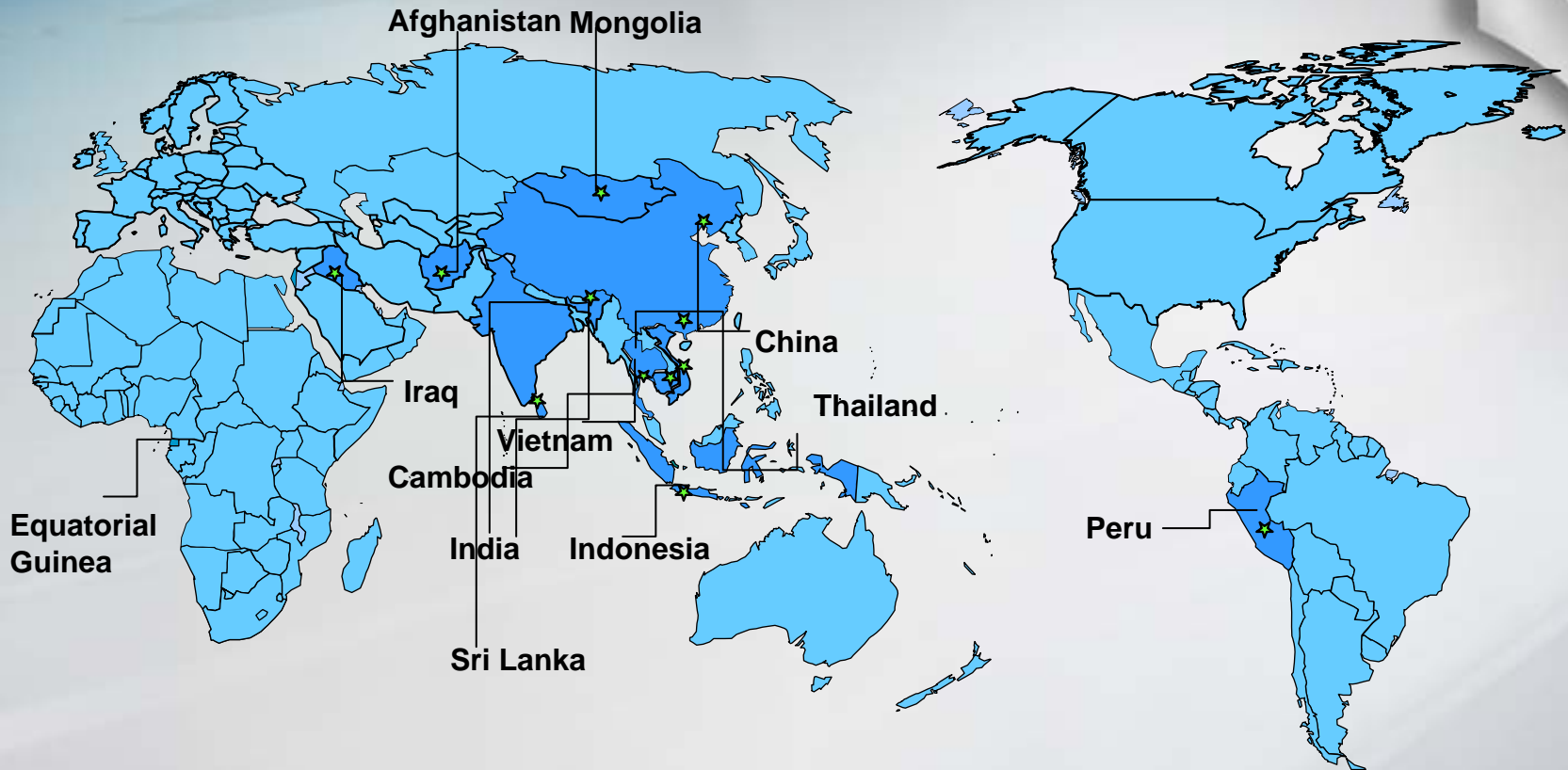
- **Facilities : 9 sites**
  - Water Supply : 446 thousand<sup>3</sup>/day
  - Length of Pipes : 3,800 km
  - Customers : 519 thousands persons

### Industrial Complexes and New Cities

- **Facilities : 4 sites**
- **Under Construction : 3 sites**



## 3-2 International Projects (1)



✓ Accomplished : *11 projects in 9 countries*

✓ On-going : *9 projects in 7 countries*

## 3-3 International Projects (2)

### Accomplished projects

Country	Project	Duration	Cost (1,000 \$)
<b>China</b>	<b>Comprehensive Management Study of the Upper Fenhe River Basin</b>	<b>Jul. 1994 ~ Jul. 1996</b>	<b>840</b>
<b>Vietnam</b>	<b>Flood Control Planning for Development of the Mekong Delta</b>	<b>Apr. 1999 ~ Sep. 2000</b>	<b>580</b>
<b>Nepal</b>	<b>Detail Design &amp; Preparation of Tender Documents for the Chameliya Hydroelectric Plant</b>	<b>Jul. 2000 ~ Jan. 2002</b>	<b>820</b>
<b>Cambodia</b>	<b>Tamouk Reservoir Rehabilitation Project</b>	<b>Jul. 2000 ~ Jan. 2002</b>	<b>800</b>
<b>Afghanistan</b>	<b>Istalif Micro-Hydropower Plant Project</b>	<b>Nov. 2004 ~ Oct. 2006</b>	<b>3,550</b>
<b>Cambodia</b>	<b>Feasibility Study on Multipurpose Water Resources Development in Krang Ponley River Basin</b>	<b>Sep. 2004 ~ Mar. 2005</b>	<b>800</b>
<b>Indonesia</b>	<b>Feasibility Study and Detailed Study of Karian Dam Project</b>	<b>Sep. 2004 ~ Aug. 2006</b>	<b>1,900</b>
<b>Peru</b>	<b>Feasibility Study on Amarilis Area Water Supply Project</b>	<b>Dec. 2004 ~ Feb. 2006</b>	<b>790</b>
<b>Iraq</b>	<b>Erbil Water and Sewerage System Improvement Project</b>	<b>Oct. 2005 ~ Mar. 2007</b>	<b>7,150</b>
<b>Mongolia</b>	<b>Construction of New Water Wells</b>	<b>Jan. 2006 ~ Mar. 2007</b>	<b>530</b>
<b>Vietnam</b>	<b>Feasibility Study on Hoabinh Water Supply Project</b>	<b>Dec. 2006 ~ Mar. 2007</b>	<b>160</b>

## 3-4 International Projects (3)

### ■ On-going projects

Country	Project	Duration	Cost (1,000 \$)
India	<b>EPC Supervision of the Doyang Stage II Hydropower in Nagaland</b>	<b>Dec. 2005 ~ Dec. 2008</b>	<b>2,000</b>
India	<b>Technical Assistance on operations &amp; Maintenance of Likimro Hydropower</b>	<b>Mar. 2006 ~ Dec. 2010</b>	<b>600</b>
Cambodia	<b>Establishment of Master Plan of Water Resources Development</b>	<b>Sep. 2006 ~ Aug. 2009</b>	<b>1,400</b>
E. Guinea	<b>Management &amp; Assistance Agreement for the Portable Water Supply System in Mongomo</b>	<b>Oct. 2006 ~ Sep. 2009</b>	<b>5,600</b>
Afghanistan	<b>Technical Assistance on Operation &amp; Maintenance of the Istalif Micro-Hydropower Plant</b>	<b>Dec. 2006 ~ Dec. 2007</b>	<b>200</b>
Sri Lanka	<b>Construction of Storm Water Drainage at Alalchchenai</b>	<b>Dec. 2006 ~ Oct. 2008</b>	<b>3,300</b>
Iraq	<b>Design &amp; Supervision of Construction of Micro-Hydropower Plant in Erbil</b>	<b>Jun. 2007 ~ Jun. 2009</b>	<b>1,200</b>
Rwanda	<b>Feasibility Survey of Water Resources I Nyabarongo River</b>	<b>Jul. 2007~ July. 2008</b>	<b>400</b>
Cambodia	<b>Detailed Design &amp; Supervision of Construction Works of Krang Ploey Water Resources Development Project</b>	<b>Jun. 2007 ~ Jun. 2011</b>	<b>2,500</b>

## 3-5 International Projects (4)

### ■ Technical Consultations & Assistance

Country	Project
<b>Laos</b>	<b>Assisted a hydroelectric power plant project</b>
	<b>Dispatched water resources specialists to the Mekong River Committee</b>
<b>Ethiopia</b>	<b>Assisted a drinking water development project</b>
	<b>Assisted a water resources development project</b>
<b>Slovak Republic</b>	<b>Provided technical consultations for an environmental system project</b>
<b>Nepal</b>	<b>Executed and assisted the feasibility study for a hydroelectric power plant</b>
	<b>Provided technical consultations for hydroelectric power plant project</b>
<b>Pakistan</b>	<b>Executed and assisted the feasibility study for a hydroelectric power plant</b>
<b>China</b>	<b>Dispatched specialists to evaluate a project supported by EDCF</b>
	<b>Dispatched specialists to conduct the feasibility study for a waterworks construction projects</b>
<b>Nicaragua</b>	<b>Dispatched specialists to evaluate a project supported by EDCF</b>
<b>Paraguay</b>	<b>Dispatched specialists to evaluate waterworks facilities expansion projects</b>
<b>Cambodia</b>	<b>Dispatched specialists to conduct the feasibility study for a hydroelectric power plant project</b>
<b>Ecuador</b>	<b>Dispatched specialists for a waterworks facilities expansion project</b>
<b>Afghanistan</b>	<b>Dispatched specialists for post-war rehabilitation works</b>
<b>Iraq</b>	<b>Dispatched specialists for post-war rehabilitation works</b>
<b>Jordan</b>	<b>Technical consultations for sewage treatment facility</b>
<b>Sri Lanka</b>	<b>Technical consultations for waterworks facility</b>
<b>Guinea</b>	<b>Technical consultations for waterworks facility</b>
<b>Vietnam</b>	<b>Technical consultations to evaluate a project supported by EDCF</b>



# 4. Strengths

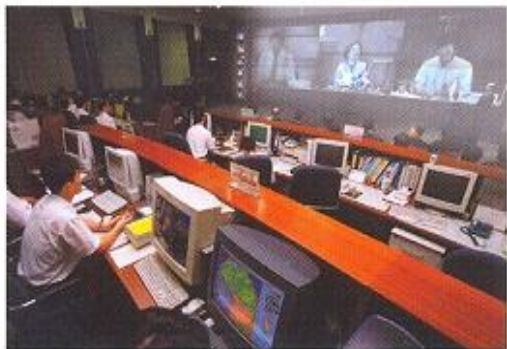
## 4-1 Provide Professional Service

- Specializing in environmental services, technical consultancy, and tailored training programs including :
  - Professional water quality services
    - Technical assistance and consultancy to municipal and local water utilities
    - Tailored and specialized training programs for local and international water industry employees (Trainees from the Middle East : 135 persons)
  - Professional research and development services



## 4-2 K-water's capabilities

- 40 years of experience and specialties in water business
- Comprehensive competence in the system design, construction management, operations of water and environmental infrastructures
- Experienced management and employees
- **Specialized in water resources & water asset management using a highly developed IT and manpower**





**K water**

***Your Partner for Guaranteed Success***



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