Session 4.5.3:
“Ensuring sustainability of water infrastructures by investing in Water Training Centers: it pays back!”
Wednesday 15 April, 14h40-16h40
Daegu EXCO, DEC_307, DAEGU - EXCO, 3F Room 321

Creation and sustainability of professional water training centers
LEE ByungKook
Korea Environment Institute, South Korea
bklee@kei.re.kr
Developing Water Training Programs in Korea

Byung Kook Lee*, JongHo Ahn**
Vice President / Chief Research Fellow *
Research Fellow**
Korea Environment Institute

bklee@kei.re.kr
http://www.kei.re.kr
Korea's Water Sector Achievements

- Water supply coverage: from 17% (1961) to 98% (2012)
- Wastewater services coverage: from 2% (1961) to 92% (2012)
- Proper accounting of all costs and revenues of the sector since early reform

(Key Success Factors)
- Government-initiated financial investment
- Importance of investing in human resource development to foster national economic growth

Korea Water and Wastewater Association (KWWA)

- Statutory and Mandatory Employee Training Programs (by Acts)
  - 11 courses on water works and 8 on wastewater works

- Perspective Professionals Course
  - Project Manager (PM) training course (Ministry of Environment)
  - Industrial environment course for the nation's infrastructure and strategic industries (Ministry of Employment and Labor)

- Others
  - Education commissioned by Seoul Metropolitan Government
  - Train overseas water-related government officials
  - Offer training consultations to developing countries
  - Enhance working ability

(Source) http://edu.kwwa.or.kr
“K-water Academy”

- Training programs for government officials, private corporate employees, and foreigners
- Practically on-site facilities and laboratory equipment, and utility-based education
- Global Partnerships: ADB, IWA, USAID, KOICA

External and Internal Relationships (as of 2013.12)

<table>
<thead>
<tr>
<th>Year</th>
<th>'97-'04</th>
<th>'05</th>
<th>'06</th>
<th>'07</th>
<th>'08</th>
<th>'09</th>
<th>'10</th>
<th>'11</th>
<th>'12</th>
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<tbody>
<tr>
<td>Course</td>
<td>16</td>
<td>9</td>
<td>14</td>
<td>11</td>
<td>18</td>
<td>20</td>
<td>18</td>
<td>23</td>
<td>22</td>
<td>27</td>
<td>178</td>
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<tr>
<td>People</td>
<td>265</td>
<td>125</td>
<td>147</td>
<td>115</td>
<td>182</td>
<td>205</td>
<td>200</td>
<td>223</td>
<td>299</td>
<td>299</td>
<td>73 countries 2,060 people</td>
</tr>
</tbody>
</table>

(Source) [https://edu.kwater.or.kr/english/main.do](https://edu.kwater.or.kr/english/main.do)
“Development of National Water Industry Cluster”

- Creating a Water Industry Hub

- Steady supply of manpower & robust industry-academic cooperation based on outstanding educational infrastructure

  - Development of Industrial Manpower (Technician 24,000; High-quality manpower 27,000)
  - Industry-Academic Cooperation (Universities, Company R&D center)
  - Water expert DB & Water Industry Academy (KWWA)

(Source) Water industry cluster brochure, Overseas Investment Promotion Team of Daejeon Metropolitan City Government
ODA Water Training Programs in Korea

- ODA Training of KOICA

  - Education
  - Industry & Energy
  - Health
  - Rural Development
  - Public Administration

- Programs
  - Water & Sanitation: 10%
  - Water Protection: 3%
  - Flooding: 14%
  - Hydraulic Power: 6%
  - Agriculture: 28%
  - Water Policy & Administration: 39%

- Participants
  - Asia: 25%
  - Africa: 24%
  - Middle-East: 20%
  - South America: 7%
  - etc.: 24%

(Source) A Study on developing water training program for ODA, KOICA, 2013.