



# KIWW2019

**Korea International Water Week 2019**

September 4 ~ 7. 2019 | EXCO, Daegu, Rep. of Korea

**Sustainable Water Management for Humans and Nature:**  
Smart Solutions for Integrated Water Management



**KOREA  
INTERNATIONAL  
WATERWEEK**





# KIWW2019

**Korea International Water Week 2019**

September 4 ~ 7. 2019 | EXCO, Daegu, Rep. of Korea

**Sustainable Water Management for Humans and Nature:**  
Smart Solutions for Integrated Water Management



**KOREA  
INTERNATIONAL  
WATERWEEK**



## KIWW 2019 Sustainable Water Management for Humans and Nature: Smart Solutions for Integrated Water Management

The Korea International Water Week (KIWW), where Korean government has led a core follow-up action of the 7<sup>th</sup> World Water Forum held in 2015, has been continuously developed and has derived various practical outcomes for resolving water challenges throughout the past editions.

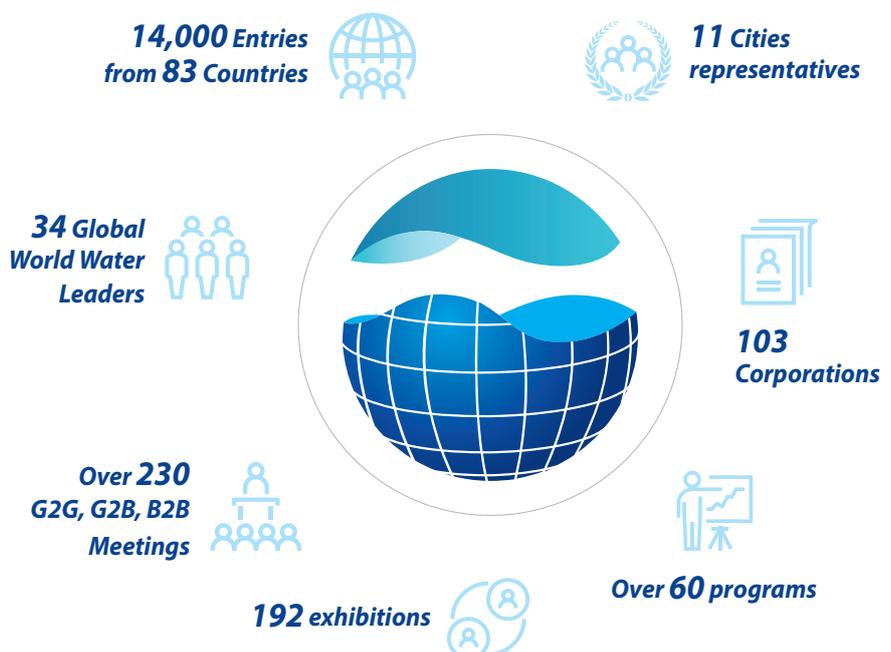
KIWW seeks for the roles of bridging between countries and partner organizations by sharing well-defined policies as well as advanced technologies along with connecting right partners in the right places to share knowledge and experiences with updated information on water based upon the core value of the KIWW, 'implementation of solutions to water challenges'.

This year, KIWW 2019 was held from September 7<sup>th</sup> at EXCO, Daegu, Republic of Korea co-hosted by the Korean Ministry of Environment, Ministry of Land, Infrastructure and Transport, Daegu Metropolitan City, and K-water, organized by Korea Water Forum. Over 14,000 water related multi-stakeholders including governments, international organizations, academia, corporations, civil societies, and media representing 83 countries gathered in Daegu to join the KIWW 2019. High-level participants including ministers from Senegal, Algeria, Sri Lanka and vice ministers from Oman, Vietnam, and Thailand from the government, and the presidents of the World Water Council, Global Water Partnership, and International Water Resources Association also actively joined and valued the 4<sup>th</sup> edition of the KIWW. Along with the heads of governments and international organizations, the representatives from the World Bank Group, Asian Development Bank, UNESCO, UN Office of Sustainable Development, China Institute of Water Resources and Hydropower Research, Korea Overseas infrastructure & Urban Development Corporation and PUB joined in the diverse programs of the KIWW.

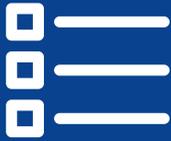
All participants, during three days of the KIWW, put their heads together to discuss and draw smart and wise solutions to the local and global water challenges under the one-year (2019) theme 'Smart Water Solutions for Integrated Water Management' considering the three-year (2019-2021) overarching theme 'Sustainable Water Management for Humans and Nature'.

More than 60 programs were actively organized by virtue of dedicated preparation and the participation of the international water experts. KIWW 2019 with the new overarching theme and the focus areas aiming at 'implementation' made another significant place for the colleagues in and outside of water sector and raised their awareness on local and global water agenda to bring feasible and practical solutions to water related problems we are facing. The efforts throughout the process of the KIWW are intended to make difference in water solutions in line with the path towards sustainable development for both people and planet.

## KIWW 2019 in Numbers







# CONTENTS

<b>OVERVIEW</b>	<b>05</b>
<hr/>	
<b>PLENARY PROGRAMS</b>	<b>09</b>
<hr/>	
Opening Ceremony . . . . .	11
Welcome Dinner . . . . .	12
Closing Ceremony . . . . .	13
<hr/>	
<b>PROGRAM HIGHLIGHTS</b>	<b>15</b>
<hr/>	
<b>Global Leadership for SDGs</b>	
Water Leaders` Round Table . . . . .	17
World Water Partnership . . . . .	22
World Water Cities Forum 2019 . . . . .	23
Asia Water High-level Meeting . . . . .	24
<b>Implementation of Solutions</b>	
TIP Platform . . . . .	27
World Water Challenge 2019 . . . . .	35
21 <sup>st</sup> Water Environment Policy Forum 2019 . . . . .	37
<b>Knowledge Sharing and Capacity Building</b>	
Water Culture and Citizen Forum . . . . .	41
Korea Junior Water Prize 2019 . . . . .	43
2019 Water Environment Policy & Technology Contest . . . . .	44
KIWW 2019 Wetskills South Korea 2019 . . . . .	45
<b>Socio-economic Value Creation</b>	
12 <sup>th</sup> Water Business Forum . . . . .	49
Water Partner Square . . . . .	50
2019 International Water Industry Business Workshop . . . . .	51
International Water Industry Conference 2019 . . . . .	52
1 <sup>st</sup> Water Industry Forum . . . . .	52
EXPO . . . . .	53
<hr/>	
<b>KIWW 2019 GALLERY</b>	<b>55</b>





---

## OVERVIEW



The logo for the Korea International Water Week 2019. It features a stylized blue wave icon to the left of the text 'KIWW2019'. Below this, the full name 'Korea International Water Week 2019' is written in a smaller, blue, sans-serif font.

**KIWW2019**  
Korea International Water Week 2019

# Korea International Water Week 2019

Date / Venue	Sep. 4 to 7, 2019 / EXCO, Daegu, Rep. of Korea
Co-Hosts	Ministry of Environment, Ministry of Land, Infrastructure and Transport, Daegu Metropolitan City, K-water
Organizer	Korea Water Forum (KWF)
Objectives	<ul style="list-style-type: none"> <li>» To set the local and global water initiative and share the vision for implementing water solutions based on water partnership and cooperation</li> <li>» To bridge between developed and developing countries throughout sharing of innovative technologies and well-developed policies</li> <li>» To raise awareness on water by providing water education and training programs</li> <li>» To develop and provide interface between water technologies and policies</li> <li>» To follow up and develop the results of the 7<sup>th</sup> World Water Forum in Korea</li> </ul>

Sustainable Water Management for Humans and Nature

Three - year  
Overarching Theme



Implementation  
of Solutions



Solutions for both  
people and planet



Achievement of  
SDGs

One - year Focus  
Theme

Smart Solutions for Integrated Water Management  
“Smart technologies and wise policies for advancing and promoting Integrated Water Management”



## KIWW 2019 Programs

Programs of the Korea international Water Week 2019 were designed to provide the right place and partners for problems owners on water and solutions providers to those problems. The programs also were planned to share most updated information and technologies with well- developed policies to the people in need.

KIWW have four major pillars (Global Leadership for SDGs, Implementation of Solutions, Knowledge Sharing and Capacity Building, Socio-economic Value Creation) supporting its three-year overarching theme 'Sustainable Water Management for Humans and Nature' and one-year focus theme 'Smart Solutions for Integrated Water Management'. Each categorized program below has been planned to draw results to develop each major pillar.

### Water Leaders' Round Table

World Water Partnership

World Water Cities Forum

Asia Water High-Level Meeting

### TIP Platform

(Technology, Implementation, and Policy Platform)

World Water Challenge

21<sup>st</sup> Water Environment  
Policy Forum



12<sup>th</sup> Water Business Forum

Water Partner Square  
(Global Business Matching)

2019 International Water  
Industry Business Workshop

International Water  
Industry Conference

1<sup>st</sup> Water Industry Forum

EXPO

Water Culture and Citizen Forum

Korea Junior Water Prize

Water Environment Policy &  
Technology Contest

KIWW 2019 Wetskills South Korea



---

## PLENARY PROGRAMS

Opening Ceremony

---

Welcome Dinner

---

Closing Ceremony



The logo for the Korea International Water Week 2019. It features a stylized blue wave icon to the left of the text "KIWW2019". Below this, the full name "Korea International Water Week 2019" is written in a smaller, blue, sans-serif font.

**KIWW2019**  
Korea International Water Week 2019

## Opening Ceremony

### Date / Venue

Sep. 4, 2019/  
Grand Ballroom A, EXCO

### *Beginning of the 4<sup>th</sup> edition of the KIWW with new overarching theme ‘Sustainable Water Management for Humans and Nature’*

The KIWW 2019 was opened with more than 900 participants including influential high level water leaders and water experts from more than 83 countries. Global multi-stakeholders including governments, international organizations, academia, corporations, and civil societies celebrated the beginning of the KIWW 2019 together.

Dr. Loic Fauchon, president of the World Water Council delivered an inspiring keynote speech titled “Digital Water for Humans and Nature” highlighting the roles of the humans in balanced water management considering nature.

*“Water Management for Humans and Nature” is the affirmation of a new paradigm: to give priority to this new balance between water for humankind and water for nature...”*

He also stresses the commitment and the actions of the political leaders to give real priority to water.

*“Water is politics, and we must raise awareness around the world among the political powers.”*

*(Dr. Loic Fauchon, President of World Water Council)*

In the plenary discussion among the International Steering Committee members of the KIWW 2019 shared their insights on the three-year overarching theme ‘Sustainable Water Management for Humans and Nature’. Four panelists: 1)Prof. Dong-il Seo(Chungnam University), 2)Callum Clench(Executive Director of International Water Resources Association), 3)Nidal Salim(Director General of Global Institute for Water, Environment and Health), 4)Danielle Gaillard Picher(Director of policy and programs of the World Water Council), and the moderator, Prof. Shabaz Khan(Director of UNESCO regional bureau for science in Asia and the Pacific), introduced the concepts of the KIWW signature programs based on the four major pillars of the KIWW. Panelists also discussed how the results of the KIWW could lead the each pillar more developed and contribute to carry out ‘sustainable water management for humans and nature’ based on the sincere partnership of different sectors and actors related to water.

\* Four pillars of the KIWW : 1.Global Leadership for SDGs, 2. Implementation of Solutions, 3. Knowledge Sharing/ Capacity Building, 4. Socio-economic Value Creation

After the panel discussion, 45 high-level participants had the EXPO tour to experience the up-to-date technologies and cases by the local and global companies of water.





## Welcome Dinner

### Date / Venue

Sep. 4, 2019/  
Grand Ballroom A, EXCO

### *Wishing successful and meaningful gatherings in upcoming programs*

With all participants, KIWW 2019 hosted the welcoming dinner for celebrating the first day of the KIWW 2019. Approximately 400 participants joined, celebrated the beginning of the KIWW 2019, and enjoyed the moment of wishing successful and meaningful gathering during the upcoming days of the KIWW 2019.

They also joined in the award ceremony of the Korea Junior Water Prize(KJWP) 2019 during the dinner. The awards (Prime Minister's Award, Minister of Environment's Award, Minister of Education's Award, Ambassador of Sweden's Award, President of Korea Water Forum's Award, and CEO of K-water's Award) were given to six winners. The prime minister awardee of the KJWP will join the World Water Week in Stockholm as a Korean representative of the Stockholm Junior Water Prize next year.

*"These days, Korea has been concerned about various perspectives on water issues to move forward a new management, particularly from a point of view of resources for development to harmony between humans and nature"*

*"...we could also witness social conflicts arising in some countries, like between keeping water in a certain area to meet human needs and keeping water flow in nature as it is"*

*"...we hope KIWW 2019 will take a role as a first step for sharing not just current nation's transitional situation but also its future plan."*

*(Mr. Hajoon Park, Assistant Minister of the Ministry of Environment, Rep. of Korea)*





## Closing Ceremony

### Date / Venue

Sep. 6, 2019/  
Grand Ballroom A, EXCO

### Sharing fruitful results of the KIWW 2019

The closing ceremony began by sharing the results of the KIWW 2019. The KIWW 2019 Steering committee chair Prof. Kyung Soo Jun (President of Korea Water Resources Association) delivered the brief report of the outcomes from the three days of the KIWW 2019.

### KIWW 2019 results summarized in numbers as follows.



Total entries: 14,000 attendees from 83 countries



34 high-level participants including ministers from the Rep. of Korea, Senegal, Algeria and Sri Lanka, vice-ministers from Oman, Vietnam and Thailand, president of World Water Council, chair of Global Water Partnership



70 youth participation made their voice to share their solutions to water challenges



Mayors and city representatives from 11 cities around the world



103 corporations in exhibition and sessions, over 210 G2G-G2B-B2B meetings



KIWW Water Leaders Action Declaration has been announced to call for reflection of all participants and the final draft of the declaration has been publicized on October 7th.

The closing ceremony finalized the KIWW 2019 with three award ceremonies of the programs identifying water solutions as follows.

World Water Challenge 2019 (3 winners)

2019 Water Environment Policy & Technology Contest (9 teams)

KIWW 2019 Wetskills South Korea (1 team)

The participants reviewed and valued the past three days of the KIWW 2019 by commenting

*“It was an effective channel and constructive gathering to understand regional and international water issues”*

*“KIWW has well offered a place to share the up-to-date technologies and policies for developing practical solutions for water”*

*“KIWW has become a significant milestone to develop bilateral and multilateral discussion on local and global water issues for governments, international organizations and corporations”*

The hosts of KIWW delivered a final message to the all participants that they have been committed to exerting efforts to make KIWW a better platform for water solutions for everyone even encompassing isolated sectors and actors, seeking to share vision, and paving a path towards the sustainable water management for humans and nature.





---

## PROGRAM HIGHLIGHTS

### Global Leadership for SDGs

---

Water Leaders' Round Table

---

World Water Partnership

---

World Water Cities Forum 2019

---

Asia Water High-Level Meeting



The logo for Korea International Water Week 2019 features a stylized blue wave icon to the left of the text 'KIWW2019'. The text is in a blue serif font, with 'KIWW' in a larger size than '2019'. Below this, the full name 'Korea International Water Week 2019' is written in a smaller, blue, sans-serif font.

**KIWW2019**  
Korea International Water Week 2019



**Global Leadership for SDGs** 

**Water Leaders` Round Table 2019**

**Date / Venue**  
 Sep. 4, 2019/  
 Korea Water Cluster Complex Int'l Conference Hall, Daegu

**Hosts**  
 Ministry of Environment, Ministry of Land, Infrastructure, and Transport, Daegu Metropolitan City, K-water

**Organizer**  
 Korea Water Forum

**Overview**

The KIWW Water Leaders' Round Table (WLRT), the signature gathering of the high-level participants of the KIWW, has been planned to build a consensus on actions amongst global high-level representatives on Water management for sustainable development and better implementation of water solutions. The distinguished high-level participants of the WLRT will share their insights and experiences on the theme of KIWW2019, 'Smart Solutions for Integrated Water Management' under the new three-year overarching theme from 2019 to 2021, 'Sustainable Water Management for Humans and Nature'. 'KIWW Water Leaders' Action Declaration 2019' will be one of the major results of the WLRT and KIWW 2019, and be embodied through the follow up activities of each participant and disseminated by the international water communities through diverse activities. The KIWW WLRT will continuously pay attention to what leaders should do for the further process of the sustainable development in water and set the global initiative of the high-levels' actions and their commitment to practical and tangible plans for water in the way of sustainable water management.

**Outcomes**

34 water leaders including ministers of water related ministries from Republic of Korea, Algeria, Senegal, and Sri Lanka and vice ministers of Vietnam, Oman, and Thailand as well as the

**Outcomes**

presidents from influential global water organizations including the World Water Council, Global Water Partnership, International Water Resources Association along with heads of corporations and NGOs shared their insights based on their expertise and local or regional based specialized knowledge and experiences on 'Sustainable Water Management for Humans and Nature'.

The result of the Leaders` Round Table Declaration, which was finalized by being circulated through all participants after the KIWW 2019 for two weeks, revised individually, and reflecting their opinions, is outlined as follows:

- | **For universal and equitable access to safe drinking water**, the leaders agreed upon the need for assigning a high priority to water and sanitation and allocating proper resources to the water and sanitation sector. . . .
- | **For nature-based solutions for water management**, high-level participants made a consensus on carrying out efforts to preserve and restore the water-related ecosystems. . .
- | **For economic, social, and ecological resilience**, they recommend the countries to realize the process of incorporating integrated water resources planning and management within the framework of national and regional and, socio-economic development planning processes. . . .
- | **For smart water management for sustainable communities and natural habitat**, they sympathized with the necessity of increasing access to technology and enhancing capacity development and knowledge sharing to promote various use of water and reducing adverse impacts from water-related risks and disasters on livelihoods and environments. . . .
- | **For financing the implementation of solutions to water challenges towards SDGs**, they shared the insights as to maximizing the value of existing assets by improving the operational efficiency and effectiveness of existing infrastructure in order to promote water security. . . .
- | **For water partnership and cooperation at all levels ensuring good governance**, they shared the necessity of catalyzing partnerships at all levels among different stakeholders, including public authorities, the private sector, civil society etc, to achieve the 2030 agenda for Sustainable Development. . . .

Global Leadership for SDGs  
 Implementation of Solution  
 Knowledge Sharing / Capacity Building  
 Socio-economic Value Creation

## WATER LEADERS ACTION DECLARATION 2019

### **Sustainable Water Management for Humans and Nature: Smart Solutions for Integrated Water Management**

We, as the heads of ministries, local authorities, international organizations, corporations, academia, civil society, and high-level representatives in the water community, having met at the KIWW WLRT 2019 in Daegu, Republic of Korea on September 4th, 2019; Recalling the significant contributions made in the past three years since the first Korea International Water Week in 2016 held in Daegu, Republic of Korea, a period in which there has been noticeable progress towards the water-related targets of the SDGs across different regions;

Emphasizing continued concern over the remaining gaps between the ambition to deliver internationally agreed upon post-2015 water-related goals included in the 2030 agenda for Sustainable Development, and the increasing threats to water security, such as climate change and disasters;

Recalling the United Nations General Assembly Resolution 71/222 of 21 December 2016, which proclaimed 2018 to 2028 as the International Decade for Action, “Water for Sustainable Development”;

Reaffirming the United Nations General Assembly Resolution 70/1 of 25 September 2015, entitled “Transforming Our World : The 2030 Agenda for Sustainable Development,” which reiterates the importance of ensuring availability and sustainable management of water and sanitation for all as a Sustainable Development Goal to be achieved by 2030, and the underpinning importance of water related issues in other goals and targets in order to reach the overall agenda and the heart of the “No One Left Behind” principle;

Emphasizing continued concern over the remaining gaps between the ambitions to deliver internationally agreed upon post-2015 water-related goals included in the 2030 agenda for Sustainable Development, and the increasing threats to water security, such as climate change, natural disasters, and increased rates of urbanization and population growth;

Reemphasizing the dynamic role of every stakeholder in water for development and management based on the participatory approach taken over the past three years of discussion in the KIWW on “Water Partnership for Sustainable Development,” involving users, planners, and policymakers, engineers at all levels, and recognizing that women have a pivotal role in the provision, management and safeguarding of water;

Continuing the recognition of the need to move from solutions to implementation with balanced, sound and well-functioning accountability mechanisms of local and water management;

Encouraging the global water community to pave the path forward together for “Sustainable Water Management for Humans and Nature” for the upcoming three years through smart and sustainable strategies for water management and meaningful cooperation through KIWW gatherings;

Hereby declare that countries should:

#### **Universal and equitable access to safe drinking water**

Assign high priority to water and sanitation in national agendas and allocate proper resources to the water and sanitation sector  
Commit to reducing inequalities in access to water and sanitation and ensure affordability of safe drinking water and sanitation services, which are basic human rights and essential to the well-being of all segments of the population, including rural and marginalized communities, in order to avoid any kind of discrimination or inequality in terms of access to water and sanitation

#### **Nature-based solutions for water management**

Promote sustainable lifecycle for water resource management, while considering basic human rights of safe drinking water, preservation of ecosystems and urban, industrial and agriculture water uses

Carry out efforts to preserve and restore water-related ecosystems and promote sustainable integrated water resource management in the development agenda including, wastewater management, reuse, green infrastructure and nature-based solutions for disaster risk reduction and restoration of water ecosystems

## WATER LEADERS ACTION DECLARATION 2019

### **Economic, social, and ecological resilience**

Enhance the process of incorporating integrated water resources planning and management within the framework of national and regional (basins) and socio-economic development planning processes, while supporting eco-friendly good practices

Promote actions to address water-related disasters by significantly decreasing costs attributed to loss of life and damage as a percentage of gross domestic product, treating investment in disaster risk reduction as an integral part of expanding capacity for socioeconomic development, integrating science into policy, substantially increasing investment in disaster risk reduction and sustainable finance and investment

### **Smart water management for sustainable communities and natural habitat**

Increase access to technology, enhance capacity development and knowledge sharing to promote various uses of water and reduce adverse impacts from water-related risks and disasters on livelihoods and environments

Promote sustainable consumption and production patterns by individuals and across all economic sectors by raising awareness through different means

Integrate sustainable water resource management practices in the education curricula of the different disciplines

Promote water accounting as a tool to enhance the sustainable management of water resources

Combine efforts to develop tools based on ICT, foster technology exchange and development, share knowledge, data and skills and enhanced scientific and technical know-how to contribute to a more efficient and sustainable water management system

Establish basic operational guidelines for Smart Water Resources Management at the national level, considering country-tailored means of implementation which ensure sound water cycle that supports social and economic development

Strengthen the interface between science, technology and policy, and provide inter-sectoral bridge between water-energy-food-land-health, etc. to local and regional water actors to improve their water management, adopting a comprehensive integrated water management approach

Promote innovative processes and technologies and the use of artificial intelligence (AI) to enhance efficiency in use and allocation of water in the different sectoral activities

Promote sustainable agriculture systems that enhance water use efficiency and profitability including irrigation systems, draught resistant crops, and the introduction of precision agriculture

Introduce regulations that ensure that all water service providers, whether private or public, include human rights sensitive standards

### **Financing the implementation of solutions to water challenges towards SDGs**

Maximize the value of existing assets by improving the operational efficiency and effectiveness of existing infrastructure in order to promote water security

Invest in long-term financing maintenances and necessary measures for climate change adaptation as well as soft measures, including governance and management capacities

Ensure synergies and complementarities with investments in other sectors, especially urban development, food, energy, land, health and education

Promote sustainable consumption and production for the efficient allocation and use of water resources

Promote policy coherence including regulatory framework and incentive measures

Promote the adoption of circular economy as a tool for sustainable water management

### **Water partnership and cooperation at all levels ensuring good governance**

Catalyze partnerships at all levels among different stakeholders, including public authorities, the private sector, civil society organizations and academia, with the engagement of women, youth, and local and indigenous communities to develop and implement actions that address problems related to water and sanitation, and to promote all societal engagement necessary to achieve the 2030 agenda for Sustainable Development

### WATER LEADERS ACTION DECLARATION 2019

Allocate and distinguish roles and responsibilities for water policymaking and implementation, operational management and regulation, and foster coordination amongst the responsible authorities at the different levels

Promote the adoption and implementation of innovative water governance practices across relevant agencies, levels of government and relevant stakeholders

Support the integration of scientific and engineering approaches with sociological, economic, and environmental perspectives, and the harmonization of well formulated policies with local and traditional knowledge, in water related activities

Encourage water governance frameworks that help manage trade-offs across water users, rural and urban areas, and that benefit current and future generations

Emphasize transboundary water cooperation in line with the appropriate principles of international law by strengthening inter alia the means of information and data exchange, encourage open and inclusive multi-level and inter-sectoral dialogue in order to foster mutually beneficial solutions and institutional arrangements, such as basin commissions and plans, among riparian countries, for the development of transboundary river basins, lakes and aquifers and for protection of ecosystems and recharge ecosystems

We, the leaders gathered today at the Korea International Water Week, agree to the above mentioned targets and pledges to make every effort towards achieving 'Sustainable Water Management for Humans and Nature'

We support our collective voice and shared vision discussed during the Water Leaders' Round Table this year in the Korea International Water Week 2019 and encourage the global water community to join our efforts to realize our vision with implementation

We express our sincere appreciation to the Government of the Republic of Korea for hosting the Korea International Water Week 2019 and the Water Leaders' Round Table with a warm welcome extended to all participants.

Daegu, Republic of Korea  
September 4, 2019

*Since its inception in 2016, the Korea International Water Week Water Leaders' Round Table (KIWW WLRT) has consistently been recognized as the signature gathering of influential water leaders from around the world. Through annual meetings, it has produced strong commitments on implementation measures to resolve global water challenges by identifying 12 action priorities. Based on the 12 priorities identified in 2016, there have been in-depth discussions the following two years on four focus areas. In 2017 the areas were: 1) the importance of science and technology in water management, 2) the improvement of sanitation and water reuse, 3) socio-economic development for implementing IWRM, and 4) strengthening partnership. In 2018 the areas discussed were: 1) develop financing systems, 2) enhance capacity building and raise awareness, 3) develop integrated smart water management, and 4) facilitate partnership. From 2016 to 2018, under the overarching three-year theme of "Water Partnership for Sustainable Development," all of the participating leaders in KIWW have collectively made significant contributions to the different initiatives in their respective regions and shared their cooperative action plans.*

*The conclusion of the Korea International Water Week Leaders' Round Table (KIWW WLRT) 2019 signifies the dawn of a new three-year period for KIWW, and the collective effort will refocus on the new overarching theme of "Sustainable Water Management for Humans and Nature." From 2019 to 2021, discussions will center on sustainable, healthy and integrated water management for both people and the planet through commitment and action. Building upon the insight and experiences from different parts of the globe and diverse sectors, approaches to sustainable water management will aim to galvanize mutual cooperation amongst different stakeholders and offset any challenges that may arise.*

KIWW Water Leaders Declaration 2019 has been reviewed by the all participants of the KIWW 2019 and edited by the leaders participated in the Water Leaders' Round Table with the special contribution by the moderator, Dr. Hussein Abaza, Senior Advisor of Egyptian Ministry of Environment.



Global Leadership for SDGs

Implementation of Solution

Knowledge Sharing / Capacity Building

Socio-economic Value Creation



**Global Leadership for SDGs**



**World Water Partnership 2019**

**Date / Venue**

Sep. 5, 2019/ #306, EXCO

**Host**

Ministry of Environment, Rep. of Korea

**Organizers**

Korea Water Forum, World Water Council



**Overview**

The World Water Partnership (WWP), a follow-up activity of the 7th World Water Forum, is the annual cooperative gathering and official dialogue between the World Water Forum which brings the key actors of the previous and next World Water Fora in cooperation with the World Water Council. The actors include high-levels from governments, leading actors of the public organizations and relevant partners together. WWP seeks to set its prioritized water related agenda and share practical cases to have further discussion for ‘implementation’ of actions that is also the core value of the KIWW. The participants build consensus on cooperation for the next World Water Forum by sharing common vision based on lessons learnt and the recommendations.

**WWP 2019 Objectives**

- | To build a consensus and make an initiative by setting the recommendation to the international water community through the process of the World Water Forum
- | To share best practices of the host countries on selected focus areas in contribution aligning with the SDGs
- | To promote action act on primary water agenda discussed in the process of the WWP

**Outcomes**

The participants from the previous and the next host countries of the World Water Forum including Morocco, Japan, Turkey, France, Rep. of Korea, Brazil, Senegal along with the World Water Council strived for building a consensus on deriving the best ways of contributing to the global water community through the World Water Forum process. All high-level participants discussed the pragmatic path to make a contribution based on accumulated know-hows and lessons and learnt from the previous World Water Forum to the next World Water Forum in Dakar, which will be boiled down to working with focal points of each of the host countries who have participated in the World Water Partnership 2019. In addition, Korea Water Forum, the secretariat of KIWW, and the co-host of the Forum, the World Water Council will jointly take a role as a coordinator for this process in order to strengthen the partnership and draw the results out of the discussion between the host countries.

The future direction of World Water Partnership will be more specified through discussion with the World Water Council and WWP 2019 participants after sharing of the result and collecting additional opinions until the next World Water Partnership in 2020.

**Global Leadership for SDGs**



**World Water Cities Forum 2019**

**Date / Venue**

Sep. 5, 2019/ #323, #325, EXCO

**Host**

Daegu Metropolitan City

**Overview**

The World Water City Forum, which marks the fifth time this year, was joined by various stakeholders of governments, cities, academia and other water-related organizations from 12 countries to share knowledge and experiences, and also, invited representatives and experts from advanced cities of the water industry to share know-hows, such as cases for promoting water industry clusters and policies by forming practical networking with water cities.

**Outcomes**

Water experts and local government representatives from five organizations from 12 cities in 10 countries, including the United States, France, the Netherlands, China and Taiwan, shared their current policies and future strategies in water and environmental industries in each country and city, and provided knowledge by presenting practical and useful case studies.

| Daegu metropolitan city, Montpellier, Ditech Institute and Aqua Valley's four-way MOUs have been established to further strengthen the water industry cooperation network.

| Under the theme of 'Building Sustainable Water City Partnership', we have prepared a useful venue for sharing water resource policies of cities around the world through a presentation session under the theme of 'Water Security and Water Welfare', including a round table meeting where representatives from each city discussed in depth the direction of water-related policies and future development measures.

| By preparing an action plan for establishing a water city partnership, we have prepared a stage to strive, implement, and set up new challenges for the ongoing forum.



Global Leadership for SDGs

Implementation of Solution

Knowledge Sharing / Capacity Building

Socio-economic Value Creation



**Global Leadership for SDGs**



**Asia Water High-level Meeting**

**Date / Venue**

Sep. 4, 2019/ #326, EXCO

**Host**

K-water

**Overview**

The World Water City Forum, which marks the fifth time this year, was joined by various stakeholders of governments, cities, academia and other water-related organizations from 12 countries to share knowledge and experiences, and also, invited representatives and experts from advanced cities of the water industry to share know-hows, such as cases for promoting water industry clusters and policies by forming practical networking with water cities.

**Outcomes**

- | Introduced the current water resource management issues and the status of water management projects in each country

---

- | Discussed ways to cooperate with Korea in accordance with issues of water management (water disaster management, shared stream, hydropower, agricultural water, etc.)

---

- | Requested for cooperation in water management technologies, including ICT, satellite and RADAR systems by Vietnam, Malaysia, etc.

---

- | Agreed upon holding 'High-Level Meeting of Asian Nations Water Management' every year as a venue for discussions on solutions to water issues
  - Hosted in 2020: 1 to 2 days before the Korea International Water Week 2020 / the World Water Congress (WWC)





---

## PROGRAM HIGHLIGHTS

### Implementation of Solution

#### TIP Platform

(Technology, Implementation, and Policy Platform)

#### World Water Challenge

#### 21<sup>st</sup> Water Environment Policy Forum



The logo for the Korea International Water Week 2019. It features a stylized blue wave icon to the left of the text "KIWW2019". Below this, the full name "Korea International Water Week 2019" is written in a smaller, blue, sans-serif font.

**KIWW2019**  
Korea International Water Week 2019



**Implementations of Solutions**

**TIP (Technology, Implementation, Policy) Platform**

**Date / Venue**  
Sep. 4 ~ 6, 2019/ #321, #322, EXCO

**Hosts**  
Ministry of Environment, Ministry of Land, Infrastructure and Transport, Daegu Metropolitan City, K-water

**Organizer**  
Korea Water Forum

**Session organizers**  
21 organizers from governments, international organizations, universities and academies, research institutes and association, public and private organizations, and NGOs

**Overview**

The Technology, Implementation, and Policy (TIP) Platform was designed to promote global discussion on practical solutions to water challenges at various scales and to provide practical and innovative guidelines for those who seek for practical know-hows and lessons, resulting from successful implementation of water policies. The TIP Platform also aims at providing opportunities to share cutting-edge technologies and well-developed policies for resolving water challenges.

**Three Key Words**

- TIP Platform seeks to be based upon three core elements, **technology, implementation, and policy.**
- | **Technology** in Feasibility study, Design, Construction, Operation, Maintenance, Monitoring, Treatment, Restoration, ICT including Artificial Intelligence (AI), Big Data, etc.
- | **Policy** linked with technologies and implementation promoting efficiency, sustainability, partnership, governance, green economy, culture, and environment
- | **Implementation** by sharing best practices, strategies, and the processes based on well-defined policies and both appropriate and developed technologies



Global Leadership for SDGs

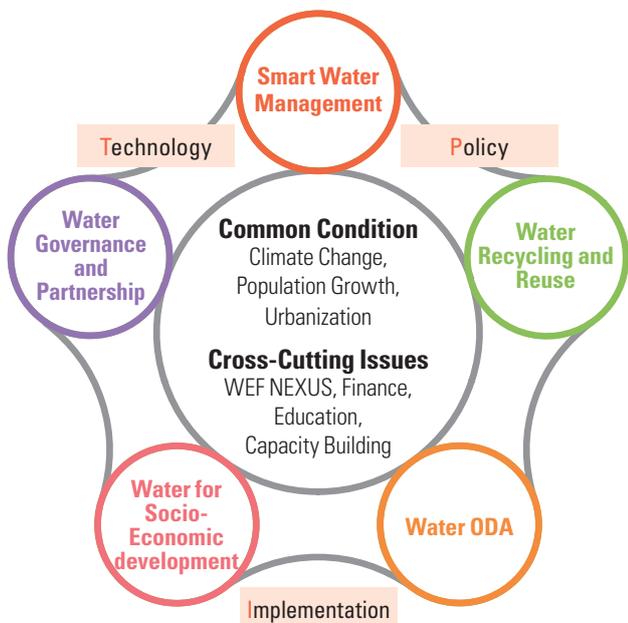
Implementation of Solution

Knowledge Sharing / Capacity Building

Socio-economic Value Creation

| **Focus Areas** |

Focus Areas are aimed to define practical solutions for achieving Sustainable Development Goals on water and consequently provide action tools and tangible strategies.



**Smart Water Management**

Keywords : Urban Water, Agricultural Water, Industrial Water, Water Disaster, Floods and Droughts, Water related Big Data

**Water Recycling and Reuse**

Keywords : Sustainability, Climate Change, Green Infrastructure, Carbon Emission, Energy Recovery, Resilience, Wastewater Treatment, Water Reuse

**Water for Socio-economic Development**

Keywords : Water Resources Management, Ecosystem, Economic Valuation of Water, Opportunities for Green Job

**Water Governance and Partnership**

Keywords : Trans-boundary Water Issues, Public Policies, Sound and Comprehensive Water Governance, Gap Bridging with Science and Technologies

**Water ODA**

Keywords : Water Aid Projects, Sustainability, Water Development, Appropriate Technologies, Policies, Monitoring System, Financing

| **Outcomes** |

21 organizers held 15 qualified sessions with more than 160 speakers. All TIP organizers and speakers actively shared their expertise and solutions to imminent local and global water challenges by introducing applicable and innovative technologies and well developed policies to boost implementation of solutions.





\* Detailed reports of each session are available at the TIP Platform page on the KIWW 2019 website.

### Smart Water Management

#### **New strategies on Urban Flood Management under Climate Change** Korea Water Resources Association, Kyungpook University

##### **Presentations**

By sharing of new, innovative developments in typhoon and flood risk reduction methodologies especially in large urban areas, participants explored countermeasures to sustain balance between structural and nonstructural approaches.

- Assessment of flood hazard zoning for disaster mitigation
- On the estimation of flood damage occurred by heavy rainfall and storms
- Overcoming lack of data for flood hazard assessment: Cost effective high quality DEM and rainfall proxies
- Urban flash flood warning system using X-band dual-polarization radar
- Development of a distributed hydrological model for near real time flood forecasting using extended Muskingum method

##### **Discussion & messages**

- Qualitative and quantitative methods for rainfall/flood forecasting, mapping and mitigating the flood-related disasters are very important for enhancing flood resilience against climate change.
- Integrated flood management should be established for building a resilient society.
- Combination of engineering measures with social, financial and legal aspects for flood mitigation are should be made within interconnected social system.
- New technologies should be continuously adopted for preparing, forecasting and managing flood disasters.

#### **Smart Water Grid technology with diversification of water resources** National Smart Water Grid Research Group, Sungkyunkwan University

##### **Presentations**

It was able to share the latest technologies and methodologies and to share best practices and research advances in the field of SWG technology.

- Prospects for Developing “Smart Water Grid” Projects in the Northern Area of Vietnam
- Potential for Smart Water Implementation in Indonesia(future plan, policies, strategies and priorities set by the Indonesian government)
- A Brief History of Water Resources Policy in Japan, and its Recent Developments
- Ongoing and proposed projects in Indonesia with multi-water resources usage and ICT Technologies, annual water sector investment amount and finance source
- Strategy and Implementation of Smart Water Grid in Korea, and Korea's Water Management Outlook and Role of the Government

##### **Discussion & messages**

- It is agreed to develop smart water networks for collective action based on international cooperation and provided practical advice for the future projects and collaborative works.
- It is also highlighted of the issues on SWG implementation with possible solutions in developing and managing water resources, and agreed on significance of common responsibilities of all stakeholders in contribution to SWG field and its implementation.

## Smart Water Management

### **Smart Water Management Platform: IoT-Based Precision Irrigation for Small and Medium Scale Farmers** **Agricultural Engineering Research Institute, Agricultural Research, Education and Extension Organization**

#### **Presentations**

There was a presentation about Implemented IoT meeting the needs of small and medium-scale entrepreneurial farmers to increase water productivity in agriculture, and increasing income and food security to have secured water access for agriculture production and become more resilient to climate change.

- Advantages of IoT by examples and application in Urmia River Basin
- Introduction to FruitLook: eLEAF & PiMapping, A services to improve the water use efficiency
- The use of smart technologies and institutions for small-scale irrigation schemes in Southern Africa

#### **Discussion & messages**

- Agricultural is the main water user in all the countries and must be considered in any activity regarding less water use and improving water use efficiency.
- An important message for policymakers considering investing in new irrigation schemes or rejuvenating existing schemes is that simply addressing technical issues and investing in hardware will not resolve the issues related to underperforming irrigation schemes. It is critical to also resolve the other issues which present barriers for farmers to increase their productivity and profitability such as market access, transport, knowledge, and finance.
- For people intending to introduce smart water management technologies in developing countries the introduced projects illustrate the importance of introducing smart institutions parallel with smart technologies to ensure that the technologies are adopted, used and maintained so they have intended impact both for the individual and institutional users.

## Water Recycling and Reuse

### **Youth Perspectives: Water Research and Initiatives**

#### **Indonesian Green Action Forum (IGAF), IPB University, Youngsan University, and Barilla Center for Food and Nutrition Young Earth Solutions, UN Environment South East Asia Youth Environment Network**

#### **Presentations**

- Water Security should include three components, such as human security, socio-economic security, and ecologic security.
- The human right based approach (HRBA) to water should comprise participation, accountability, non-discrimination and equity, transparent, and empowerment.
- There are three legal systems in ROK on regulating water, such as up, down, and in the middle.
- Youth presented some initiatives and projects on water such as 'partial nitrification by using PVA/alginate immobilized-cells', 'the economic value of Begnas Lake by using travel cost method', 'Nusa Dua Beach erosion', 'water purification method by utilizing carbon nanoparticles blended with electrospun chitosan polymers', 'the utilization of bamboo for water preservation', and 'the importance of chitosan/carbon nanoparticles to remove heavy metals and to kill bacteria'.

#### **Discussion & messages**

- Water research and initiatives of young people must be actualized in the ground, and not only just solutions.
- Private and public sectors must invest young people's research and initiatives, and help translate these regards into implementable actions beneficial for better future.

## Water Recycling and Reuse

### The way from Non-conventional to Conventional Sources in Jordan Case

#### Jordan Wastewater Reuse Organization

##### Presentations

There were three presentations; 'Jordan Water Recycling and Reuse Stagey', 'Wastewater Reuse Building a Secure World', and 'Wastewater reuse for community livelihood enhancement'.

##### Discussion & messages

- Wastewater reuse can be considered as conventional source in scarce water countries.
- Efficient utilization of reuse water can contribute to development of rural communities and improve the environment.
- Awareness on reuse as an important source of water supply will contribute to acceptance of more users in the local communities.
- Wastewater reuse become worldwide contributes to world security.
- More efforts needed in countries with limited sources to use reuse water and invest in wastewater treatment.
- Countries need to modify their regulations to allow for use if reuse water in irrigation and landscaping and to save fresh water sources for other purposes.
- Invest in new technology and smart systems to improve reuse efficiency and quality monitoring.

### Unconventional water resources in dry areas for sustainable development

#### United Nations University Institute for Water, Environment and Health, United Nations Office for Sustainable Development

##### Presentations

- Unconventional Water Resources(UWR) include 'Used water', 'Desalinated water', 'Groundwater', 'Atmospheric water capture', Transported water, iceberg towing'.
- There are fully operational fog water collection plants in the dry areas, the largest being in Morocco. However, there are no policies to promote or facilitate fog water collection in dry areas where fog events and intensity are conducive for fog collection systems. Community and gender mainstreaming in fog collection systems bring positive outcomes for women and girls.
- There are more than 15000 desalination facilities in more than 100 countries. Half of the global desalination capacity is in the MENA region.

##### Discussion & messages

- The conventional water resources are not enough to meet water demand in water-scarce areas. Water-scarce and communities need to consider alternatives to narrow demand-supply gap.
- The rate of population using at least basic water supply increased on the 2000-2015 period, however there is need to accelerate progress.
- For instance, Turkey is already experiencing less rainfall and wastewater is considered an alternative resource for water supply. Pakistan has one of largest irrigation system in the world, yet the country also experiences a serious problem with water scarcity. Groundwater is major water source and the country lacks water storage.

### Capacity building of water reuse

#### K-water, Korea Environment Corporation

##### Presentations

- Sustainable solutions are 'Incentives', 'Innovation', 'Information', and 'Integration'.
- Strategies to Increase Rate of Industrial Usage are 'High Industrial Water Tariff & Industrial Water Demand', 'High Quality Industrial Water Demand', 'Renewable Energy & Waste Resource Utilization', 'Municipalities Incentives', and 'Government Subsidies'.
- Future Direction of Rainwater Use & Gray-water Reuse Facilities is establishment of sustainable water circulation system through integration management by each watershed, diversification of water reuse according to demand characteristics, and Improvement of public relations and education in Water reuse.
- The presentation on Water Reclamation in sustaining Singapore water security in the climate change Era highlighted Energy efficiency for future water reuse.
- WBE may be able to provide more direct measures of population health, by measuring biomarkers of food, diet and health in SMART CITY.

## Water for Socio-economic Development

### Improving Water Security for the Sustainable Development Goals UNESCO International Centre for Water Security and Sustainable Management, International Water Resources Association

#### Presentations

- UNESCO IHP and its VIII (2014-2021), 'Improve knowledge and innovation to address water security challenges applying IWRM principles' were introduced.
- Global Water Security Issues (GWSI) was released. It was about 'Water Security and the Sustainable Development Goals' covering wide range of water security issues related to the SDGs including the academic theories and international and regional case studies.
- Strategies for Sustainable Water Security are 'Diversification', 'Decentralization', and 'Integration'.
- It is underlined that integrated development plans should be developed in the water-land nexus and climate action should be mainstreamed.
- Silo-based policy-making & implementation led to inefficient use of resources, resource waste & detrimental impacts on the environment. Nexus based policy framework is needed.

#### Discussion & messages

- NBS is more efficient comparing to the existing solutions.
- Current challenges of NEXUS can be solved by participating of non-water experts, being dealt with local context from wide a range of fields.
- Gender equality and Africa priority are considered for all process of publications.
- Confronted with the on-going water-related challenges, addressing water security can be a practical approach to deal with the complex and interconnected challenges and enhance sustainability, development and human welfare.

### Global Support for Victims: Africa`s Rising Water Crisis and Mitigation Desertification

#### Africa Union Economic Social and Cultural Council, African Centre for Human Advancement Social and Community Development

#### Presentations

Three presenters shared as follows;

- Africa Rising water Crisis and Mitigation Desertification
- The Role of Community and Civil Society in Water Management
- The Impact of Climate Change on Water Resources

#### Discussion & messages

The discussion topic was about water desertification as capital intensive project, Water allocation (Cooperation). Cooperation like Lake Victoria trans-border organization, Zambezi in south Africa. Speakers also adhered to the collective framework of African Union Agenda 2063 and the Nile River Basin initiative. South Africa is planning iceberg, there were tossing questions if it has Economic Benefit. In conclusion water reservoirs are owned by farmers –Agricultural and the domestic supply.

### Towards the 9th World Water Forum: why is water quality such a crucial component in the water security equation?

#### International Water Resources Association

#### Presentations

- What needs to be done in order to connect information between basins and their water bodies by introducing IStorms (Integrated Storm water Runoff Management System)' case study.
- The extent of pharmaceuticals pollution was discussed, and the need to target early stages of pharmaceuticals lifecycle was highlighted.
- Status of drinking water and a roadmap to achieve drinking water security in Pakistan were presented.
- Quality Unknown shows that urgent attention must be given to the hidden dangers that lie beneath the water's surface.

#### Discussion & messages

- Encouraging and enabling information and its sharing are critical to getting water pollution under control.
- Legislation, implementation and enforcement are also crucial to scrub the world's waterways of pollution. Information and transparency must be coupled with well-designed, effectively implemented and scrupulously enforced regulations for firms and individuals to adhere to water quality guidelines.
- Pollution that cannot be prevented must be treated. Wastewater treatment has a vital role to play.

## Water for Socio-economic Development

### The Revolutionary Sustainable Finance Scheme to Tackle Water Crisis in Lombok, Indonesia World Wild Fund Indonesia

#### Presentations

Population and scarcity of productive land along with social and economic pressure have forced people to encroach on the forests, including in Mount Rinjani, in Indonesia. This threatens the integrity of ecosystems and their hydrological and ecological functions, severely reducing the quality and quantity of freshwater in Lombok. WWF Indonesia has the initiative to launch a revolutionary Payment for Watershed Services (PWS) project focusing on maintaining water supply which covers the southern slope of Rinjani. In 2009, the local decree was issued and the total fund of USD 65,300 collected to restore 2,100 ha degraded lands by planting 660,000 trees and giving the financial benefit to local communities. Water Lex presented about the roles of private sector or local NGO for water conservation.

#### Discussion & messages

- Advocating a “pro poor” policy framework to sustain the collaborative and multi-stakeholder.
- Strengthening and provide local capacity building of multi stakeholder forum
- Share lessons – learned among the sites and provincial level.

## Water Governance and Partnership

### Global Implications and Lessons for Good Water Governance Systems at the River Basin Level in Korea K-water Research Institute

#### Presentations

- A major feature of the Mekong River is the transboundary river basin so that it needs to coordinate each benefit. Six countries agreed to establish an institution to adjust potential conflicts and the institution which has a critical role in economic development as well as water governance in the region.
- Sri Lanka has tried to build a policy-making process which multi-layer governments are able to participate in. However, a concrete structure for the policy-making process with all stakeholders has yet to be settled in Sri Lanka.
- Indonesia is characterized by decentralization and religion based governance.
- Korea has just started with Integrated Water Resource Management based on Korea’s Basic Laws since last year. It shows the tendency of a decentralized water governance system through the Basin Water Management Council.

#### Discussion & messages

Successful water governance should include all stakeholders from the central government to civil society. Domestically, public and private participation is very important and in terms of the public sector, multi-level governments should be included in decision-making process. Internationally, institutions that coordinate interests among countries play a significant role in good governance. Countries need to build institutional capacity to discuss different interests and to foster cooperation.

### Regional Collective Action on “Cooperation” towards the 9th World Water Forum Korea Water Forum

#### Presentations

Water Cooperation in the Process of the 9th World Water Forum was introduced. The case on the Mekong River explained how water cooperation and policy Impact in Asia. There are benefits and hurdles from concerted efforts for Water Cooperation in Asia. Good Governance and Capacity Building for Water Cooperation in Asia Pacific Region was shared.

#### Discussion & messages

Understanding that cooperation is not merely the opposite of conflict, but the beginning of the development of effective policy, meaningful collaboration to achieve equitable outcomes is important. It also requires an interdisciplinary approach, combining bio-physical and geo-political aspects with engineering and decision-making as well as other relevant disciplines. It also requires working at different scales, with local, regional, or international actors. Finally, the process of promoting “cooperation” will be expected to have meaningful and influential outcomes to deliver both to water and non-water actors.

## Water Governance and Partnership

### Using SDG 6 Policy Support System (SDG-PSS) to facilitate Countries in the Asia region for water-related sustainable development

**Korea Environment Corporation(K-eco), United Nations Office for Sustainable Development(UNOSD), United Nations University Institute for Water, Environment and Health(UNU-INWEH), Ministry of Environment, Rep. of Korea(MOE)**

#### **Presentations**

- Reliable and credible data on water and sanitation can play a key role in informing decision-making and promoting political commitment at all levels. In this regards, the UN-Water Integrated Monitoring Initiative (IMI) was introduced and the SDG 6 Data Portal is IMI's key products.
- SDG 6 Policy Support System helps bringing data and information from multiple international and national tools and translating them into a 'fit-for-policy' evidence framework.
- A key learning from work done by Republic of Korea on the implementation and use of the SDG-PSS is to conduct the necessary analysis on already existing policies and programmers and adapt them to the requirements of tool.

#### **Discussion & messages**

- All participants recognized and praised the development of the SDG-PSS tool, its role in providing the platform to work together, and monitor the progress of the enabling environment for achieving SDG 6.
- During the workshop, participants highlighted:
  - The importance of nominating a focal point not only for national implementation of the tool but also for building and strengthening regional cooperation.
  - The need for regular follow-up to share challenges and practices beyond the scope of the regional workshop.
- Making the right policy decisions in the SDG era can be quite complex, requiring policymakers and development practitioners to assess and combine many pieces of evidence from different agencies and sectors.
- SDG-PSS provides a strong foundation for countries to advocate for a rational, rigorous and systematic approach to inform their policy processes and support decisions to achieve SDG 6 by 2030.

## Water ODA

### Revising Water ODA in view of Sustainability

**UNESCO International Centre for Water Security and Sustainable Management**

#### **Presentations**

- The key points to achieve sustainability are 1. Diversification of finances focusing on MFD(Mobilizing Private Financing), 2. Better Technology, Better governance, Policy, and Regulation, etc.
- The essential element of a successful PPP project is that mitigating the gap between 'expected return on investment' and 'actual return on investment'.
- It is important to make great effort to adopt cutting edge technologies for developing countries with synthetic cooperation and coordination between public, private sector, and R&D industries.
- To respond to the changes in engineering consulting services demands in the water infrastructure sector, it is most important to revise acknowledgment on climate change finances with active investment for developing countries.
- To response to climate change and local demand, it is crucial that the local community's capacity building and resilience of ecosystem-based on consistent infrastructure management.
- GCF introduces strategies to promote a paradigm shift towards low-emission, climate-resilient sustainable development in the Water Sector.

#### **Discussion & messages**

The answer on how water ODA and Technology, Finance, and Cooperation need to be considered holistically was that the synthetic approach could be a leverage point for improving efficiency and long-term sustainability.



**Implementations of Solutions**

**World Water Challenge**

**Date / Venue**  
Sep. 5, 2019/ #320, EXCO

**Host**  
Ministry of Environment, Rep. of Korea

**Organizer**  
Korea Water Forum

**Overview**

The World Water Challenge(WWCH) 2019 is an international contest for water solutions. The WWCH was introduced as the special program of the Science and Tehcnology Process of the 7th World Water Forum in 2015, which has been annually held in conjunction with the Korea International Water Week(KIWW). The WWCH is aiming at identifying water problems and finding feasible solutions to them.

The 5<sup>th</sup> edition of the WWCH with its new procedure of selecting the water problems made its results even more practical. From this year WWCH began to open to the policy experts recognizing the policy pillar as the most important element of the solutions to water challenges with the technological solutions. Based on more diversities on solutions and balanced angles to see the problems and solutions at the same time, the WWCH 2019 has been evaluated by the participants of the KIWW participants as a solid bridge connecting the problem owners and solution providers through the in-depth discussion on the relevancy of suggested solutions to the imminent prioritized water solutions. This year, as well as the previous version, the evaluation committee has carefully evaluated all solutions submitted and had a very hard discussion to select the awardees.



**Outcomes**

WWCH 2019 attracted 67 solutions from 37 countries. Ten prioritized challenges were carefully selected by the international steering committee of the WWCH 2019 before 'call for solutions process'. A total 67 solutions were submitted from all over the world and only nine solutions were selected for the final round, and those solution providers were invited to the final round of the WWCH during KIWW 2019.

The selected nine solutions were evaluated by their oral presentations and the interviews during the final round at the KIWW 2019 and the three winners of WWCH 2019 were decided according to the criteria: comprehension, contribution, feasibility, challenge and impact. "The BEST" prize winner was granted 10,000,000 KRW (Approx. 9400 USD) for the solution titled 'A water kiosk at school', and other two winners were awarded "OUTSTANDING" prizes for the solutions titled 'Novel Fertilizer Production from Human Urine in Membrane Distillation Process', and 'Sponge-An Innovation in irrigation for sustainable farming'. Two outstanding awardees also received 3,000,000 KRW (Approx. 2,600 USD) cash prize with trophies.

Global Leadership for SDGs

Implementation of Solution

Knowledge Sharing / Capacity Building

Socio-economic Value Creation

Challenges	Solutions	Award
<b>Efficient Water Management</b>	<b>A water kiosk at school</b> Mr. Venuste Kubwimana, Secretary General, International Transformation Foundation, Rwanda	The Best
	<b>Sponge – An innovation in irrigation for sustainable farming</b> Mr. Sanjay Prasad, Project Leader, IVL-The Swedish Environmental Research Institute, INDIA	Outstanding
	<b>Smart Technology for Integrated Management of Diversified Water Resources</b> Ms. Wala'a Mhammad Khalaf Bani-Mostafa, Researcher, Water Authority of Jordan, Jordan Dr. KukHeon Han, Researcher, Sungkyunkwan university, Republic of Korea	
<b>Resource Recovery from Water and Wastewater System</b>	<b>Novel Fertilizer Production from Human Urine in Membrane Distillation Process</b> Ms. Ruth Habte Hailemariam, PhD candidate, University of Science and Technology (KICT School), Ethiopia	Outstanding
	<b>Improving Water Security through Water-Energy Nexus Approach in Danang city of Vietnam</b> Dr. Pham Ngoc Bao, Senior Water and Sanitation Specialist, Institute for Global Environmental Strategies (IGES) Japan, Vietnam	
	<b>Solar Dew – Solar Water purification and desalination for households and communities</b> Mr. Alexander Francois Marie Van der Kleij, Head, Solar Dew, The Netherlands	
<b>Water and Natural Disasters</b>	<b>Rejuvenation of Lake Mahadevapura using Nature Based Systems</b> Mrs. Rohini Pradeep, Project Manager, CDD Society, India	
	<b>Exploiting the synergies between sustainable urban drainage systems(SUDS) and urban farming</b> Ms. Bui Thi Hong Hieu, Researcher, Ministry of Construction (MOC) - Vietnam Institute for Urban and Rural Planning (VIUP), Vietnam Mr. Hoang Anh Duc, Project Engineer, Ministry of Construction (MOC) - Vietnam Institute for Urban and Rural Planning (VIUP), Vietnam	
<b>Smart Water Technologies</b>	<b>AgriHydro A Smart Technology to Better Irrigation Management in IWRM platform</b> Dr. Hossein Dehghanisanji, Associate Professor, Agricultural Engineering Research Institute (AERI), Agricultural Research, Education and Extension Organization (AREED), Iran	



**Implementations of Solutions**



**the 21<sup>th</sup> Water Environment Policy Forum**

**Date / Venue**

Sep. 4, 2019/ #321, EXCO

**Host**

Ministry of Environment, Rep. of Korea

**Organizers**

- Nine Water Environment Academic Societies
- Korean Society of Environmental Engineers
  - Korean Society of Water & Wastewater
  - Korean Meteorological Society
  - Korean Society on Water Environment
  - The Ecological Society of Korea
  - Korea Wetlands Society
  - Korean Society of Limnology
  - The Korean Society for Environmental Analysis
  - Korean Society of Soil and Groundwater Environment.

**Overview**

In response to the changing water environment conditions and the need to establish a demand-oriented water environment policy, a group of experts in the water environment was formed to prepare a forum for dialogue to discuss integrated water environment policies.

**Outcomes**

Based on the theme of the 4th Water Environment Policy Forum this year, "Activation of the Water Industry in Connection with the Fourth Industry," the three topics were announced and a comprehensive discussion was conducted to find ways for experts to analyze and respond to the changing water environment.

Delivered presentation on major conflicts and issues in each of the four major rivers by the president and delegate of the Vision Forum.

Discussed the current state of the national water industry cluster and the ways to promote the water industry.

Presented the application of simulation, machine learning and smart sensing technologies for optimal operation of water and sewage facilities.

Presented by K-water Senior Researcher on the status and improvement of water supply network operation management.

Conducted a comprehensive discussion based on the topic of three subjects.







---

## PROGRAM HIGHLIGHTS

### Knowledge Sharing / Capacity Building

---

Water Culture and Citizen Forum

---

Korea Junior Water Prize

---

Water Environment Policy &  
Technology Contest

---

KIWW 2019 Wetskills South Korea



The logo for the Korea International Water Week 2019. It features a stylized blue wave icon to the left of the text "KIWW2019". Below this, the full name "Korea International Water Week 2019" is written in a smaller, blue, sans-serif font.

**KIWW2019**  
Korea International Water Week 2019



**Knowledge Sharing / Capacity Building** 

**Water Culture and Citizen Forum**

**Date / Venue**  
Sep. 4 to 6, 2019/ #211, #306, #322 and Hallway(3F), EXCO

**Hosts**  
Ministry of Environment, Ministry of Land, Infrastructure and Transport, Daegu Metropolitan City, K-water

**Organizer**  
Korea Water Forum

**Program organizers**  
Green Future, TheARC, Daegu Green Environment Center, Korea Water Forum

**Overview**

The Water Culture and Citizen Forum is designed for better understanding on local and global water issues and identify citizen's water agenda by close communication among citizens, civil organizations and water experts from public and private sectors. It is an open platform to provide a ground for communication and discussion that will encourage citizen's participation and action for the water challenges.



**Outcomes**

Programs were ‘Water education activity for children and teachers’, ‘River Basin Management in the view of civic activists’, ‘Special talk on action on water’ and ‘Youth water talk concert’.

About 100 children and NGOs activists learn more about water and water education. 155 youth and Daegu citizen enjoyed sharing stories and experiences related to water.



Program	<b>River Basin Management in the view of civic activists</b>
Organizer	<b>Green Future</b>

Watershed water management is being pushed forward with the implementation of the Integrated Water Management Policy, but from the water activist’s point of view, this is not working properly. As a result, discussions were set up to suggest the correct watershed management direction and to prepare specific plans.

- Regarding the launching of the National Water Management Committee, the issue of barrage is the biggest issue and how to solve these problems and how to resolve conflicts among stakeholders with different positions will be important.
- Capacity Building is the key for civil society organizations to develop specialties and to prepare to lead the group by gathering voice on policies. For future generations, civil society organizations need to focus on environmental education and nurture instructors. NGOs cooperate and communicate with local governments, and water quality management and watershed management in cooperation with local governments are the points of success.
- Sustainable water management is about discussing how to use water without breaking the flow of the watershed. I think the Watershed Management Committee will be a forum for public discussion and communication.

Program	<b>Water education activity for children</b>
Organizers	<b>Green Future, TheARC</b>

Water education lessons for children to help them understand water properly and to practice it at home through scientific experiences and experiments. About 100 children experience hands-on learning about various topics related to water.

- Increasing the value of water and ecological susceptibility in ecosystems by raising terrarium, hydroponic plants.
- Using globe ball play to understand earth's water distribution (clouds, soil, sea, rivers, lakes, animals, plants, etc.) and creating droplet bracelets to understand the earth's water circulation system.
- Learning about the principles of environmentally friendly water bottles and the severity of plastic pollution. Learning how to reduce plastics.

Program	<b>Youth water talk concert</b>
Organizer	<b>Daegu Green Environment Center</b>

The 2019 Youth ‘Water’ Talk Concert was aims to provide young people with the opportunity to recognize global water issues, such as global water shortages and water pollution, and to find solutions for them to use sustainable water.

- There were two presentations about Sustainable Water uses and the activities of Water Industry Supporters.
- Youth raised Sustainable Water and Awareness of Global Water Issues.
- It was the opportunities for youth to raise awareness of national water industry cluster and water industry.

Program	<b>Water educator workshop</b>
Organizer	<b>Korea Water Forum</b>

To educate water educators for continuous water and environmental education by utilizing the educational program of the Project WET (Water Education for Teachers) Foundation, which provides easy and fun water education programs.

- Students are able to express the flow of water flowing through rivers and basins as a whole, while learning about the amount of water that varies with season and climate, and explain the major components of the watershed.
- Understand the harmful effects of aquatic alien species arising from climate change on existing native ecosystems and gain a deeper understanding of alien species that threaten biodiversity.

Program	<b>Special talk on action on water</b>
Organizer	<b>Green Future</b>

After listening to the experience of water movement from senior activists, it is possible to reflect on the current water movement.

- Prof. Jang-Chul Chin, Co-chair of Five Rivers Basin Council : Civil movements have more to be addressed by social science than natural science, and water also needs a social science approach. In order for the civil movement to succeed, it is necessary to establish good governance. I think good governance is governance that can only be achieved by forming rational persuasion and emotional consensus among the people.
- Prof. Gye Woon Choi, Professor of Incheon University: In order to have a competitive edge in water, a characteristic water culture forum should be conducted. In each region, specialized water cultures should be developed and held in forums, and international competitiveness should be built around specialized forums.



**Knowledge Sharing / Capacity Building**



**Korea Junior Water Prize**

**Date / Venue**

Sep. 4, 2019/ #320, EXCO

**Hosts**

Ministry of Environment, Korea Water Forum

**Supported by**

Ministry of Education, Embassy of Sweden in Korea, K-water, Coway

**Overview**

The Korea Junior Water Prize(KJWP) is a scientific competition for the youth that has been held annually since 2009 so that the teenagers can contribute to solving international social water problems with creative ideas by developing their own creativity and ability to develop by presenting innovative solutions to secure competitiveness in the highly competitive international arena and to establish a position as a leading position. The KJWP provides a foundation for young leaders to develop creative thinking and explore water technologies for making their solutions to water challenges through the angles from the youth. The awardee of the Prime Minister's Award will be the Korean youth representative at the Stockholm Junior Water Prize.

**Outcomes**

**Call for Participants**

A total of 60 teams (120 people) participated in with a study plan that presented creative solutions to water-related free issues for high school students nationwide, and 18 teams were selected for the finals through preliminary screening.

**Incubating Program**

The participants were provided opportunities to further develop their research mentored by experts in research content, discuss with the other participants, even were given special lectures and field trips to the teams advancing to the finals.

**Finals and Award Ceremony**

The results of the research paper (Korean) and poster interviews(English) were reviewed. As a result, the best team (Prime Minister of Republic of Korea's Award) and five outstanding teams (Minister of Environment of Republic of Korea's Award, Minister of Education of Republic of Korea, etc.) were awarded, through screening on the research paper.

**KJWP 2019 Winners**

**Prime Minister of Republic of Korea's Award**

Team **HONAM**

The Separation of metal ion from Heavy Metal Ion Mixture by "Alginate-Liquid Filter"

**Minister of Environment of Republic of Korea's Award**

Team **RUSTY NAILS**

Preparation and Characterization of Iron Oxide Using Acetic Peroxide and Nails, and Removal of Heavy Metals in Water

**Minister of Education of Republic of Korea's Award**

Team **W.C (water cleaner)**

Microplastic Collection Modeling of Sewage Treatment Plant Using Pacman Colloid and Manta Ray Filter

**President of Korea Water Forum's Award**

Team **Upconversion**

Utilizing silver nanoparticles, lanthanides and TiO2 to make a water-purifying-system in sunlight

**Swedish Ambassador to the Republic of Korea's Award**

Team **#AQUARIUS**

Seawater desalination and renewable energy storage technology using "electrochemical cell with channel type flow electrode unit"

**CEO of K-water's Award**

Team **You & Kimberly**

Sustainable development diatomite water collector

**Knowledge Sharing / Capacity Building**



**Water Environment Policy & Technology Contest**

**Date / Venue**

Sep. 6, 2019/ #320, EXCO

**Host**

Ministry of Environment

**Organizer**

Korea Environmental Preservation Association

**Overview**

The 6<sup>th</sup> Water Environment Policy & Technology Contest is a national contest to encourage university students on their research for creative ideas on water environment policy and technology and further to lead the water environment field in the future.

**Outcomes**

On its 6th edition this year, 10 finalists were chosen through the preliminary round and Final presentation of 10 teams, participating in the 6th Water Environment Policy & Technology Contest hosted by the Ministry of Environment to find fresh ideas and foster future talent among college students who are interested in water environment policies, were given to the audience. In the final competition, four outstanding projects were rewarded, evaluated by their final reports and presentations.

**The Best :**

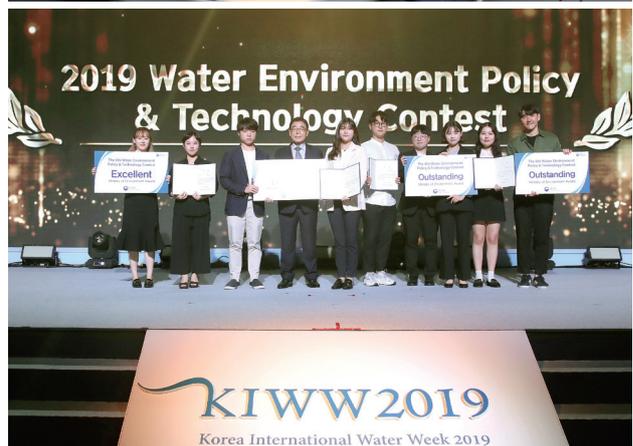
Team CHANG-E2, 'The way to remove Rust and scale removal of water pipes and industrial piping using food and cosmetics materials'  
\* Ministry of Environment of Republic Korea's Award and a chance to visit international water environment management facilities

**The Most Outstanding :**

Team Naci, 'Make Water Safe'  
\* Ministry of Environment of Republic of Korea's Award and 200,000 KRW

**Outstanding :**

Team Pill Water, 'Improvement of water environment through treatment and recovery system of waste medicine among PPCP using application', Team Reducing Water, 'A Study on the Application of Aquaponics and Efficient Application to Improve the Water Environment', Team Y-GARD, 'Mechanical Reduction Solution', Team Algae, 'Energy-saving, mobile (boat-type) bird removal device using CAF technology and solar energy'



**Knowledge Sharing / Capacity Building** 

**KIWW 2019 Wetskills South Korea**

**Date / Venue**  
Sep. 6, 2019/ #323A, EXCO

**Host**  
The Netherlands Wetskills Foundation

**Organizer**  
Daegu Metropolitan City

**Overview**

The Netherlands Wetskills Foundation travels around the world to find more creative water solutions through the 'Wetskills Water Challenge' program, which involves young engineers from the Netherlands and visiting countries.

**Outcomes**

Participants from the Netherlands and the visiting countries formed five teams to discuss specific water-related topics for about two weeks under the auspices of the Case Manager before presenting them in the final (headings: 5).

The Water Essence team, which was in charge of the case in Priscan state, was named the winner of the Wetskills Water Challenge at the closing ceremony of the KIWW.

- The "Water Essence" team came up with a water collector that plays K-pop music whenever it rains, and thought about ways to create a cultural awareness of climate change by making music loud as it rains.

\*The name of members: Kim Dam-mi (Korea), Sanne de Smet (Dutch), Sandeep Basukala (Nepal), and Amber van der Meijs (Dutch)

For urgent water problems facing the world, students from various cultures and young professionals helped solve various water problems around the world through a two-week team of students and experts looking for innovative and readily available solutions.







---

## PROGRAM HIGHLIGHTS

### Socio-economic Value Creation

---

12<sup>th</sup> Water Business Forum

---

Water Partner Square

---

2019 International Water  
Industry Business Workshop

---

International Water Industry Conference

---

1<sup>st</sup> Water Industry Forum

---

EXPO



The logo for the Korea International Water Week 2019. It features a stylized blue wave icon to the left of the text 'KIWW2019'. Below this, the full name 'Korea International Water Week 2019' is written in a smaller, blue, sans-serif font.

**KIWW2019**  
Korea International Water Week 2019

**Socio-economic Value Creation**



**12<sup>th</sup> Water Business Forum**

**Date / Venue**

Sep. 5, 2019/ Hall 3, EXCO

**Host**

Ministry of Environment

**Organizer**

Korea Water Forum

**Overview**

The Water Business Forum (WBF) is particularly designed as a global platform of governments, public and private sectors mainly aiming at catalyzing collaborative projects by both sharing up-to-date technologies and information and finding possible opportunities for financing.

This year's 12th forum collected all possible resources to design the particular networking platform for multi-stakeholders building a future-oriented water partnership under the theme of the first session "Water Management Improvement through Smart Technology" consisting of four sub-topics and presentations.

**i) Boosting Global Competitiveness**

- Roles of the KECO for Strengthening the Global Competitiveness of Water Industry

**ii) Water Management Trends and Innovation**

- Water and Sanitation Household-Based e-Survey : a lesson learned from Indonesia
- Investment in Water Solutions & Sustainability in Egypt
- Smart Water Grid in China
- Trends and Innovations in Managing Foreign Investment in Water Infrastructure : A Country Specific Experience from Pakistan

**iii) Smart Technology for Global Water Business**

- K-water's Support Program for Water Industry

**iv) Best Practices : Water Technology Development and Global Business by company**

- Advanced River Basin Planning in Viet Nam using Decision Support System
- Trenchless rehabilitation of water mains
- Digital Technologies for Smart Water Management
- The Startup who saved the most lives on earth
- Smart UT Solution by Coogy's Technologies
- Smart Water Grid Technology & it's Collaboration with Global Water Industry

The second session had following three sub-topics under the theme of "Global Water Industry and Financing".

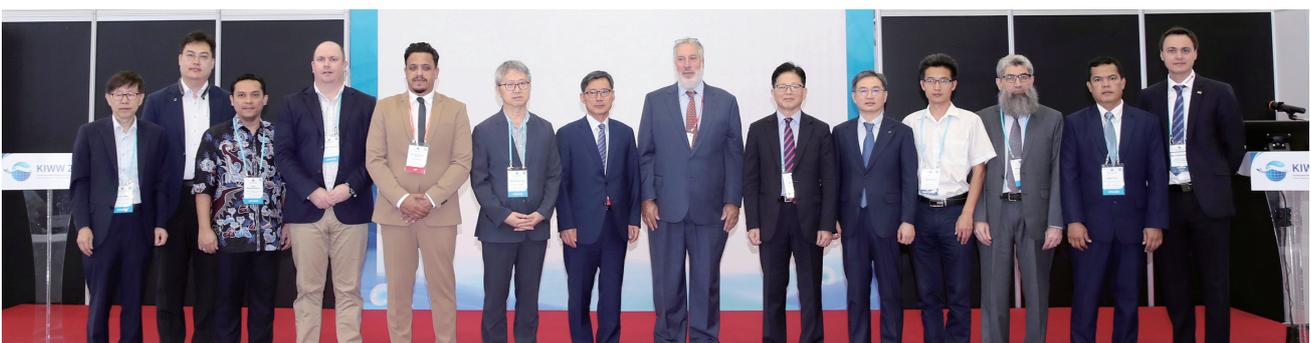
- Maximizing Finance for Development : Water Infrastructure
- Global Water Industry and Finance
- Enabling Financing of the Infrastructure Projects in Indonesia

**Outcomes**

In the 12th WBF, public-private corporations from 6 countries (Indonesia, Egypt, China, Pakistan, Germany, Australia) along with the host county of the KIWW, Rep. of Korea and a Multilateral Development Bank (World Bank), and a public organization (Korea Overseas Infrastructure & Urban Development Corporation) attended. Approx. 50 participants including 16 speakers and moderators from 7 countries and organizations joined the forum to build and strengthen their strategic partnership.

The 12th edition of the WBF provided the right place for sharing cutting-edge technologies and knowledge with up-to-date information based on insightful analysis and on-going researches. It also offered the opportunities for networking among key decision-makers seeking for cooperation on the projects.

The forum contributed to enforcing strategic relationship with nations, regions, international organizations, and enterprises by discovering potentially cooperative issues of water industry.



**Socio-economic Value Creation**



**Water Partner Square**

**Date / Venue**

Sep. 4 to 6, 2019/ Hall 3, EXCO

**Host**

Ministry of Environment

**Organizer**

Korea Water Forum

**Overview**

In conjunction with the Water Business Forum, the Water Partner Square was organized for whole three days of the KIWW 2019. It was designed for matching the solutions providers and solution buyers. Water Partner Square, the global business-matching program has been recognized as the place for developing water projects, business, and future investment. The business consultations at the Water Partner Square opened the door for new business opportunities to firstly achieve sustainable development and better management of water, secondly foster public-private dialogues, and lastly catalyze win-win partnerships and alliances e.g. global expansion, marketing, technology transfer, joint development in the water sector.

- Pre-Survey has been conducted by Korea Water Forum in order to figure out the timely needs from participating companies both in the initial stage of global business and the next stage of that.

**Outcomes**

- | Participants who are willing to set up a global business network with their targeted partners as well as to promote the products and services with pin-point meetings gathered around.
- | During the three-day KIWW 2019, about 230 bi- and multilateral business meetings were arranged for their current and further cooperation in business.
- | Plus, to boost active business networking atmosphere, KIWW organized another linked program named **Technology Demonstration** - which gathered 15 promising national SMEs and start-ups as well as a global renowned company, Xylem to share their up-to-date technology by lively presentations.



**Socio-economic Value Creation**



**2019 International Water Industry Business Workshop**

**Date / Venue**

Sep. 4, 2019/ #323, EXCO

**Host**

Daegu Metropolitan City

**Organizers**

DYETEC, Daegu Environment Corporation

**Overview**

The Workshop kicked off with the presentations of introducing primary businesses and water projects from each supporting organization from Korea, Vietnam, Laos, Russia, the Netherlands, and France.

The Workshop is generally referred to as one of the industrial exchanges programs, and it tries to create new business needs in the water sector.

This Workshop aims at small group match-making, which drives sustainable and mutual exchanges via technology introduction and product promotion.

**Outcomes**

- | 46 attendees from 8 countries for presentation - Korea (30 companies and organizations), China (3 government organizations), Malaysia (1 consulting company), Laos (1 research institute), Vietnam (2 associations), Russia (1 research institute), the Netherlands (2 organizations), France (1 company)

---

- | Approx. 100 audience attended from companies and supporting organizations home and abroad in the field of water.

---

- | Discussion made on the possibility of
  - i) contract for becoming an exclusive distributor between Korea-the Netherlands
  - ii) export channel development between Korea-France
  - iii) construction of local manufacturing facility between Korea-Vietnam
  - iv) technology consultation on sewage-waste water treatment plant between Korea-Laos
  - v) system applicability and successful localization between Korea-China etc.



**Socio-economic Value Creation**



**International Water Industry Conference**

**Date / Venue**

Sep. 3 to 6, 2019/ #324, EXCO

**Host**

Daegu Metropolitan City

**Organizer**

Advanced Institute of Water Industry

**Overview**

The conference plays a key role as a global platform with the purpose of interacting internationally embracing many businesses, academic institutions, and governments. The conference originally planned to support domestic companies especially located in the water cluster(Korea Water Cluster Complex) to expand its business at global scale. For those companies, the best priority of the International Water Industry Conference is strengthening external exchanges with diverse sectors of above, as well as public in Daegu city in order to make a big step forward national water industry hub.

**Outcomes**

- | A total of 83 research presentations have been delivered – consisting of 50 oral presentations (12 Keynote Speeches, 38 oral presentations) and 33 poster presentations.
- | Approx. 220 people from 22 countries participated.
- | The presentations given by emerging young researchers and graduate students from Korea, Italy, and Spain was very outstanding and noticeable.
- | Giving a chance for attendees to visit the Korea Water Cluster Complex attained satisfactory feedback.

**Socio-economic Value Creation**



**1<sup>st</sup> Water Industry Forum**

**Date / Venue**

Sep. 4, 2019/ #211, EXCO

**Host**

Ministry of Environment

**Organizer**

Korea Water Partnership

**Overview**

Two main objectives of this Water Industry Forum include  
 i) strengthening communication among diverse industry sectors  
 ii) Building and operating a comprehensive network platform for industry-academia-research fields that focused on becoming a policy-making think tank.

**Outcomes**

- | Approx. 100 people attended from government, public-private corporation, NGOs.
- | Presentation topics include
  - i) introducing EPA(Environment Protection Agency) program and the case study
  - ii) commercialization of water technology as well as investment in its potential
  - iii) need to secure R&D budget for water industry and technology development
  - iv) construction of database of water technology
- | Discussion was followed with 5 participants from university, ministry, institute, and company under the theme of sustainable finance for water technology innovation.



**Socio-economic Value Creation**



**EXPO**

**Date / Venue**

Sep. 4 to 6, 2019/ Hall 3, EXCO

**Hosts**

Ministry of Environment, Ministry of Land, Infrastructure and Transport, Daegu Metropolitan City, K-water

**Organizer**

Korea Water Forum

**Overview**

KIWW 2019 EXPO was designed as a government-led global business boosting platform and the place for exchanging up-to-date information and innovative technologies for their future partnership so as to bring government officials and decision makers from affiliated organizations of a project contractor together, as well as business representatives home and abroad.

Every year, the KIWW EXPO tries to expand the volume of exhibition, diversify participating countries, and to maximize exhibitors' needs by carefully investigating participants' needs and offer chances of business exchanges using diverseness of KIWW programs.

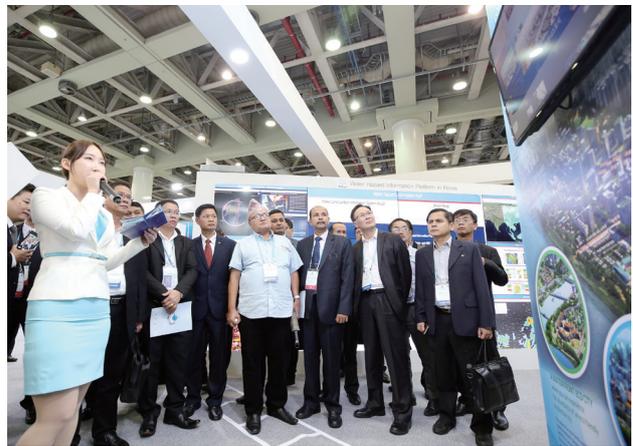
**Outcomes**

KIWW 2019 EXPO took a role in promoting new opportunities for business and industry cooperation for their future projects and contribution to the global water community.

This year, total 65 exhibitors (192 booths) from public-private sectors categorized by sub industrial sectors such as operation, manufacture, construction, R&D, Education, Policy fields, not just by showing off their tech-savvy products and technologies, but also by exchanging recent information on R&D projects and outcomes.

EXPO established ties with 15 speakers of the Water Business Forum, more than 210 business matching and consulting partners, and 15 tech-companies of the Technology Demonstration.

EXPO also collected and harmonized market trends, investment and potential partnership opportunities, so that it has been evolving into the right place encompassing recently growing water technology.



Global Leadership for SDGs

Implementation of Solution

Knowledge Sharing / Capacity Building

Socio-economic Value Creation

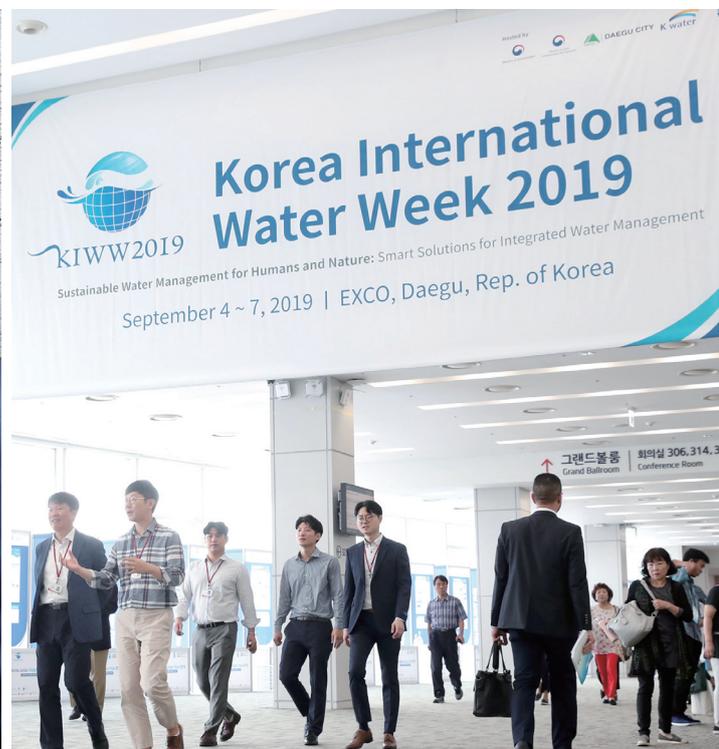
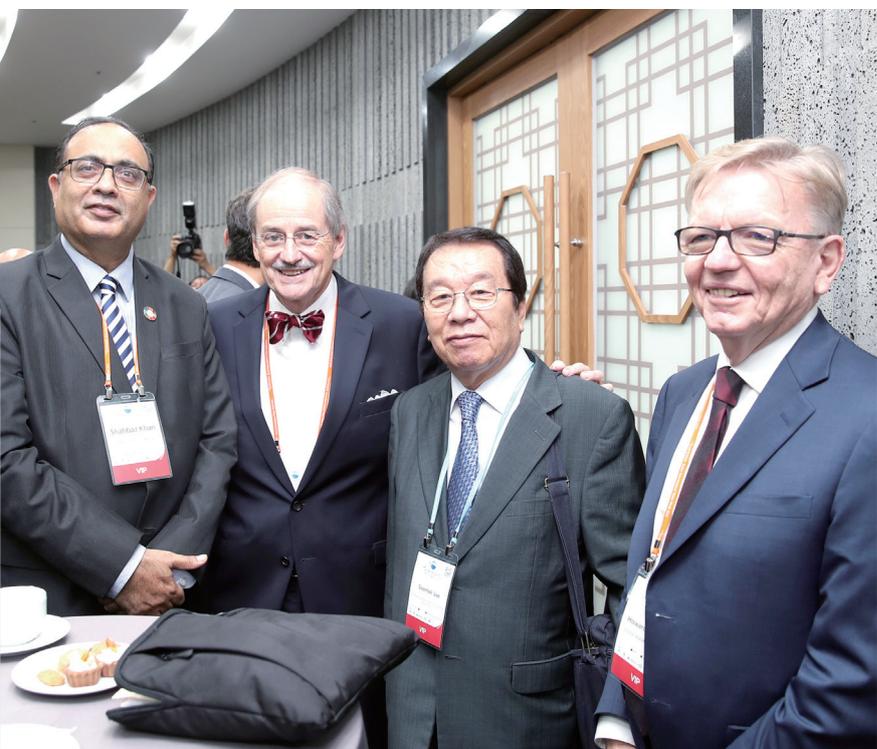
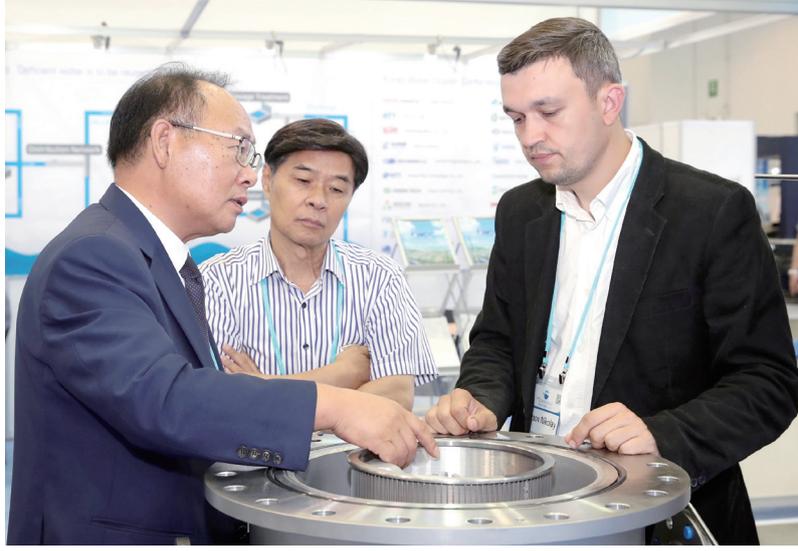




# KIWW 2019 GALLERY













**KIWW2019**  
Korea International Water Week 2019

Hosted by  Ministry of Environment  Ministry of Land, Infrastructure and Transport  **DAEGU CITY**  **K water**

Organized by  **KOREA WATER FORUM**  **KIWW Website** [www.kiww.org](http://www.kiww.org)

 <https://www.facebook.com/kwfwaterforum>

 [https://www.youtube.com/channel/UChaZfrqES4PS\\_kJlejOhcAg](https://www.youtube.com/channel/UChaZfrqES4PS_kJlejOhcAg)