KOREA INTERNATIONAL WATER WEEK

Guideline for World Water Challenge 2024

Ministry of Environment

KWF

Contents

1. OVERVIEW

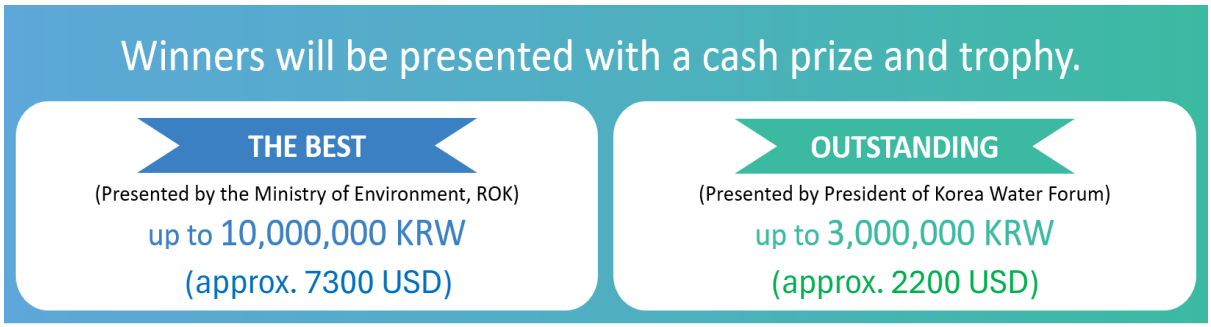
The World Water Challenge is an international contest hosted by the Ministry of Environment of Korea and organized by Korea Water Forum for water solutions. It was created as a special program of the Science and Technology Process in the 7th World Water Forum to identify imminent global water issues and to find feasible solutions based on the core value of “Implementation”.

Attracting great attention in the 1st edition in 2015 at the 7th World Water Forum, the program has become one of the symbolic platforms of implementation which has been followed up in the Korea International Water Week (KIWW) over the past 9 years, focusing on the roles of science and technology in solving water challenges.

The 10th edition of World Water Challenge 2024 is expected to serve its role as an important platform to share **not only innovative scientific/ technological methods but also policies** towards solving specified water problems around the world and to build a broad network among experts and stakeholders in the water sector as well as solution providers.

2. BENEFITS

Up to 10 selected solution providers will be invited to the final round of the WWCH in Daegu, Korea. The final presentation and award ceremony will be held on Nov 14-15th during the KIWW 2024. ‘THE BEST’ prize winner will have a chance to speak at the WWCH 2025 the following year.



- One recipient of ‘THE BEST’ award and two recipients of ‘OUTSTANDING’ award will be selected.
- The title of the awards and the amount of prize money are subject to change.
- If there is no qualified solution for the “THE BEST” prize based on the decision of the evaluation committee, there may not be a winner of the year and/or type of award and prize money may change.

3. ELIGIBILITY

Anyone (as an individual or on behalf of an organization) who is interested in contributing to resolving water-related challenges with creative/applicable solutions is welcome to submit solutions to WWCH 2024's designated main topics.

∗ Persons (including winners) who participated once (and more) in the previous WWCH are allowed to participate in the WWCH 2024 with different (or updated) subjects and ideas. (Same contents or ideas with the previous contents, will not be considered.)

4. PROCESS

Solution Submission	→	***Solution Selection***	→	***Final Presentation***
(May 17-Aug 11)		(Aug 12-Sept 16)		(Nov 14)

A. APPLICATION

The candidates are requested to submit solution proposals through the web-based system (on KIWW Official website) using the provided application form.

- It is strongly recommended that all candidates read carefully and follow the submission instructions indicated on the provided template.
  ** The application form for WWCH 2024 can be downloaded on the KIWW website.*
- Solution proposals can only be submitted via the web-based system. E-mail submission will not be considered.
  ** It is requested to create an account first on the sign-up page in order to submit your proposal through the website.*
- Solution proposals must be filled out only in English.
- A graphical abstract visually summarizing your solution (e.g., schematic diagram, picture, animation, etc.) should be submitted as a separate file.
- One person (or organization) can submit more than one proposal with different solutions.
- Please note that all materials submitted for entry will not be returned and they might be used or published partially or wholly by the secretariat.

Solution Submissions: Due by **August 11, 2024**.

B. MAIN TOPIC LIST

This contest is open to recent (less than 10 year) original innovative ideas, addressing local or global issues in the following areas with considering the water-related sustainable development goals (SDGs) from UN.

Reflecting on the urgency of regional and global water issues in each water sector, WWCH 2024 calls for innovative solutions in accordance to the following list.

Main Topic	SDGs links	Examples of Keywords
Water and Wastewater Treatment	**6.1 & 6.2**	Water and wastewater treatment technology, Safe and clean technology for drinking water, Sanitation and Health Science, Sea Water Desalination, WASH[1)] for public health, Energy production, Nutrients recovery system in Water Treatment, Wastewater Surveillance etc.
Water Resource Management	**6.4**	Water-cycle security, Groundwater development, Policy for integrated water management, Governance for transboundary and shared water resources, Citizen Participatory Governance, Water-energy production Technology, Technology for achieving Water-energy-food Nexus, Hydropower Technology etc.
Water and Natural Disasters	**11.5**	Flood prevention, climate change scenarios and prediction, Drought Analysis and Management, Risk Assessment and Adaptation, Water and Disasters, Groundwater Development, Water related Composite Hazards, Drinking water shortage by Earthquake, Coastal Disaster and Tsunami, Portable Water Treatment System etc.
Smart Water Technologies	**6.5**	Water and Creative Economy, Smart Water Management, Smart Disaster Management, Smart Agricultural Water Management, Standardized Smart Water Grid, Water Management Information Systems, RS and GIS applications for securing Water Resources, Best management practices of IWRM, Advanced Water Governance through Multi-directional Information System, NRW[2)] etc.
Ecosystem and Water	**6.6**	Wetland Conservation and Restoration, Environmental Flow, River Restoration, Ecosystem Service, Utilizing LID[3)] and GI[4)], Resilience Cities, Ecological Flow, Water and Health etc.

[1)]WASH: Water, Sanitation and Hygiene / [2)]NRW: Non-Revenue Water / [3)]LID: Low Impact Development / [4)]GI: Green Infrastructure

C. EVALUATION CRITERIA for SOLUTIONS

Each submission will be judged based on five different criteria as below and can earn a maximum of 100 points. At most, 10 finalists will be selected and the final presentations will be also evaluated by the committee during KIWW 2024.

Evaluation Items	Detailed Contents of Evaluation	Score
Fact-finding	• If the solution provider exactly understands the problem including background, objectives, scope, cause and effect, and impact on the global water issues.	**5**
Contribution to "Sustainability"	• If the solution provider clearly understands the meaning of sustainability. • If the solution sufficiently demonstrates the contribution to achieving sustainability in development. • If the solution provider considers possible alternatives in achieving sustainability in the solution.	**25**
Feasibility	• If the solution sufficiently satisfies the requirement of the problem owner in a feasible manner, such as economic, technical, legal, and political feasibility in its implementation. • If the solution is suitable for the implementation and easy for approaching its circumstance. • If science and technologies applied to the solution are practically applicable to the field. • If the local resources are efficiently used in the solution. • If the solution is designed to have a lasting impact on the problem.	**30**
Originality / Novelty	• If the solution is original and novel that has not been reported or implemented previously. • If the solution provider proposes innovative methods in solving the problem.	**25**
Impact	• If the solution provider well describes the expected effects of the solution on the lives of plants, animals, and human beings. • If the effects of activities in solving the water problems are obviously described.	**15**