Rain School Initiative through the activities of BiTS and Skywater Committee

Rain For All (Non-governmental organization (NGO))
#SDGAction49565

Description

In rural areas in developing countries where a centralized water supply system is not connected, groundwater is contaminated by saltwater intrusion or heavy metal, or depleted, rainwater harvesting can be a good water supply alternative. The limitation of current rainwater harvesting technology such as poor water quality and water shortage during dry seasons can be solved by technical innovations such as including treatment at Rainwater Harvesting and proper hydrological modeling.

Rainwater harvesting at the individual house level has problems in operation and maintenance due to technical and financial limitations. To avoid these problems, a community-based Rainwater harvesting system is suggested where the community members can monitor the performance and make a democratic decision. Although the community can be schools, health care centers, and religious places, school is considered the first target to utilize the power and energy of the students.

A special science group named BiTS can be involved in the construction and design. And during the maintenance period, they can also do decoration, cleaning, and monitoring.

Description

Community-Based Rainwater For Drinking (CBRD) system at Schools

Rainwater harvesting and treatment systems are constructed at schools to supply water to the students (more than 1 liter/per person /day) for their health. Additional benefits can be expected by involving students in their school curriculum and activity by organizing a special group in the school, the name of which is called BiTS which stands for Bi (Rain in the Korean language) Teacher and Student. Sustainable management can be insured by a Skywater Committee which consists of the teachers, students, parent and local authorities.

Expected Impact

Students can drink safe water.

Implementation of the Project/Activity

After the successful demonstration of several CBRD systems in one country and other countries, it can be suggested to the local and central governments to implement the regulatory framework,

Arrangements for Capacity-Building and Technology Transfer

The sharing of experience and experiences from BiTS from each country can be made through online and offline conferences and get together. Also, the experience of the Skywater committee will be exchanged.

Capacity

1. The CBRD system at 2 Rain schools in 2023, 5 Rain schools in 2024, and 5 Rain schools in 2025.
2. The online conference with BiTS and Skywater Committee will be made 1 time/a year and offline meetings will be made once a year.

Action Network

Share

Timeline

03 January 2022 (start date)

31 December 2025 (date of completion)

Entity

Rain For All

SDGs

6 4 13

Region

Asia and Pacific

Geographical coverage

Rural Schools in Developing Countries where water supply is not met.

Other beneficiaries

Schools in rural areas in developing countries and schools in developed countries as well.

Governed

Rain For All is responsible for the overall process of the CBRD at schools. The design and monitoring will be made by the academic sector at SNU. The funding will be found from MKCF and AKCF. The result of the project will be shared by the publication of scientific papers and blog articles to the water experts.

Evaluation

The evaluation of performance of the CBRD system and project will be evaluated by both quantitative and qualitative questions and analysis by the indexes used in technical aspects.

Partners

Mekong Institute, ASEAN-Korea Center, Seoul National University

Quantify

The capacity of the CBRD should supply 1 liter of water/per day per student.
And should meet the national drinking water quality standard.

Additional information

There are good examples of such activities in schools in Vietnam, Thailand, and Cambodia.

BiTS students from each country can make a good network with each other by exchanging and sharing information about water and rainwater at an international online conference.

Although developed countries may have less chance of water shortage, it will be better for the students to be prepared for such cases. Regardless of the development, all BiTS can exchange some common knowledge and wisdom such as site-specific water culture in different regions.

More information

rainforall.org

Countries

- Republic of Korea
- Thailand
- Vietnam
- Lao People's Democratic Republic
- Vanuatu
- Cambodia

Headquarters

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Contact Information

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