

## 6 CLEAN WATER AND SANITATION

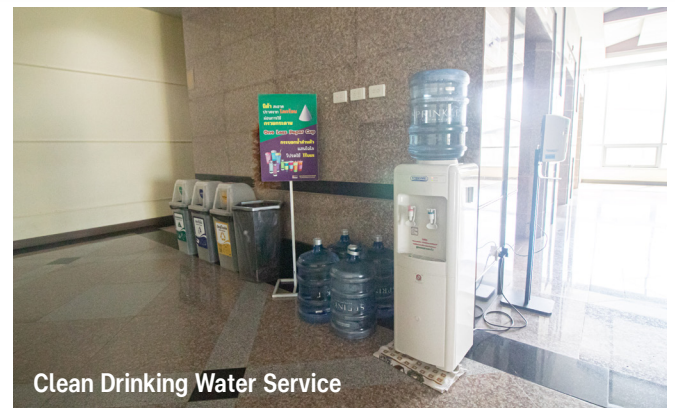


### Manage Water Sustainably for Utilization and Consumption for All

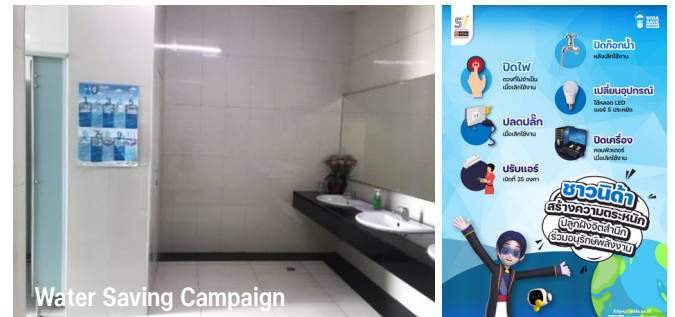
NIDA sustainably manages water on campus and in the surrounding communities. This includes water for general utilization and consumption that is sufficient and of good quality since water is an essential resource for life and work.

#### Free Drinking Water

To promote accessible, clean, and sanitary drinking water, the Institute provides free clean drinking water sufficiently in every floor in every building for students, personnel, and visitors. Moreover, the Institute constantly encourages its faculty, personnel, and students to save water in order to foster environmental mindfulness.



Clean Drinking Water Service



Water Saving Campaign

#### Wastewater Treatment & Water Reuse

To promote the treatment of wastewater, NIDA built a cluster wastewater treatment (rotating biological contactor) treating water with a closed aerator system in every building before releasing the water into Pattanantara Pond, which is an important habitat for various fish species and frogs. In the pond, there are two solar-powered water turbines which increase oxygen in the water. The pond also has a drainage system that carries the water into the pumping station before releasing it into Sansaeb Canal. Water is also treated to be reused for gardening purposes. The entire process is a systematic water management that helps increase efficiency, sustainably protects, and revitalizes the eco-system on and off campus.





Pattanatara Pond



Treated Water for Gardening

## Community United for the Return of Brightness to Sansaeb Canal Project

NIDA has been implementing the project on treating polluted water in Sansaeb Canal for more than 20 years in hopes of bringing back the cleanliness and brightness of the canal. The effort focuses on the participation of all parties from local communities to various organizations, such as department stores, hotels, hospitals, schools, temples, and private companies. This participatory approach emphasizes the cooperation in the entire process including the planning, implementation, monitoring, assessment, and shared accountability and responsibility for the outcome. This is a key driver in the ongoing and sustainable development. The activities under the project involve disseminating information and knowledge, experience and opinion exchange, attitudinal adjustment, and raising awareness in keeping the canal clean, especially of those living by the canal. This process also fosters leadership in the communities. The Institute additionally provides and installs the solar-powered water turbines, complete with the demonstration of how to produce and utilize fermented bio-extract water for water treatment to increase oxygen in the water, all of which are done for the communities living along the canal.



Pouring the fermented bio-extract water into the canal



## Community United for Water Exhibition 2023 (Ruem Jai Pueh Sai Nam)

NIDA's School of Environmental Development Administration offers academic programs in environmental management and conducts research on many issues related to environment, and these include: Legal Study on Republic of Korea's Groundwater Laws; A Possible Model for Developing Thai Groundwater Law; the Legal Concept of The legal Concept of Han River Conservation and Development in Republic of Korea: A Model for Developing Thai Water Resources Law; and Legal Study on Water Allocation and Use: A Conceptual Framework of Japanese Water Law and the Scope of Application of Thai Water Law.

### Related Academic Services

NIDA places great significance on SDG 6 and therefore has consistently strived to achieve the goal. This includes the effort in educating the public and disseminating academic articles through NIDA Digest, which is published on the Institute's website. Examples of these articles are Lessons Learned from Return of the Brightness to Sansaeb Canal written by Asst. Prof. Dr. Tang-on Munjaiton and BCG Sufficiency Economy Series EP12: at the Natural Agricultural Center in the Nan Province Community with "Living a Circular Lifestyle" in Tha Wang Pha District, Nan province.

