
Environmentally Friendly Process of Products and Services

To align with global and Thai economic development trends emphasizing the Green Economy concept, the Company is transforming production and consumption patterns towards Sustainable Consumption and Production (SCP) and reducing greenhouse gas emissions.

The company is conscious of and prioritizes environmentally friendly production processes to promote the manufacturing and consumption of Eco-Products. Initiatives include Green Procurement practices, the use of alternative and recyclable resources, waste-free production processes (e.g., no discharge of pollutants), and ensuring the safety of workers and stakeholders. The Company establishes policies for quality and environmental considerations as part of its organizational environmental management practices, adhering to international standards such as ISO 14001:2015 for effective environmental management systems within the organization.

Quality and Environmental Policies

as detailed on the website :

<https://www.ttwplc.com/storage/about/policy/policy-environment-en.pdf>

ISO 14001:2015 TTW Public Company Limited

as detailed on the website :

<https://www.ttwplc.com/storage/business/structure/ttw/20240425-ttw-iso-14001-2015.pdf>

ISO 14001:2015 Pathum Thani Water Company Limited

as detailed on the website :

<https://www.ttwplc.com/storage/business/structure/ptw/20240425-iso-14001-ptw-2024.pdf>

Objectives on Environment

1. Waste separation directly according to specified containers is not less than 98%.	Once a Week
2. No leakage of sludge into the adjacent community.	Every 6 Month
3. No environmental complaints from external communities.	Once a Year
4. No leaking of lubricants or hazardous chemicals.	Once a Week
5. Environmental conditions during operations comply with legal standards.	Once Every 6 Months
6. Safety Data Sheets (SDS) for all chemicals used are complete.	Once Every 6 Months
7. Energy consumption is controlled. 7.1 Water production and supply system : <ul style="list-style-type: none"> • Bang Len Water Production Plant (BLN) < 0.74 kWh per cubic meter • Bang Pa-In Expansion Project (BIE) < 0.19 kWh per cubic meter 7.2 Wastewater treatment system : <ul style="list-style-type: none"> • Bang Pa-In Expansion Project (BIE) < 0.27 kWh per cubic meter 	Once a Month
8. Emergency drills are conducted at least once per year according to the plan.	Once a Plan

Changes and Key Developments in Environmental Policy, Practices, and Eco-Friendly Product and Service Production Processes Over the Past Year

The Company has revised the quality and environmental policy of TTW Public Company Limited by adding a policy on the procurement of environmentally friendly products and ser-vices. This was presented to the Management Representative of the ISO 9001 Quality Management System and the ISO 14001 Environmental Management System and was officially announced on August 23, 2024

Tap Water Production without Loss of Water

The Company realizes the importance of products and services quality, along with taking into account the environmental impacts may arise from the Company's business operations, both directly and indirectly, by environmental management with ISO 14001 : 2015 systems combined with the tap water production with Zero Discharge model. In addition, the residual sludge from the tap water production process was dewatered and returned to the new production process, this means throughout the process, no wastewater is released into natural water sources. **As a result, 6,866,685 cubic meters of water recycled in new production processes in 2024.**

Wastewater Treatment

In addition to operating business of production and distribution tap water to the Provincial Waterworks Authority (PWA) in service areas; Nakhon Pathom, Samut Sakhon and Pathum Thani Province, the Company also operates a tap water and wastewater management business in Bang Pa-in Industrial Estate area in Ayutthaya, Amata City Industrial Estate area in Chonburi Province and Amata City Industrial Estate area in Rayong Province. The amount of treated wastewater since 2020-2024 are as follows :

Treated Wastewater Volume (Cubic meter)				
2020	2021	2022	2023	2024
5,091,565	5,324,544	6,670,175	6,039,527	5,616,000

Application of Membrane Technology in Tap Water Production Processes

The Company realizes the importance of risk management from continual declining quality of raw water and may affect the Company's business operations, therefore, membrane technology was used in production process at the Krathum Baen Water Treatment Plant, Samut Sakhon Province. Membrane technology has higher filtering properties than conventional filtration and effectively removes contaminants that are pathogens such as viruses and bacteria. As a result, the quality of tap water is better and can reduce the cost of using chemicals in the tap water production process.

Air Pollution Control

The Company emphasizes to air pollution control no less than other operations due to currently, air pollution affecting the people's quality of life in the community and the environment greatly, in addition to the problem of particulate matter size 2.5 microns (PM 2.5) that is now intensifying in Thailand. The Company realizes to the supervision and control of the air quality emitted to the environment and focuses on the environmental management system in accordance with the international standard ISO14001:2015 without affecting the employees, contractors working in the Company's area, including the community surrounding the Company's water treatment plant and the Company's operations area to sustainable business operation and balance of economy, society, and environment. The Company defines the air pollution control are as follows :

1. Establish an environmental quality inspection plan, for example, dust emissions from the exhaust chimneys of standby generators.
2. Establish measures and procedures for vehicle inspection from contractors or third parties entering and exiting the Company's operating area such as checking the exhaust fumes and various availability conditions.