

# Water & Environment

The product lineup of the Water & Environment Division includes pipeline infrastructure products (ductile iron pipes, plastic pipes, valves for the public sector, formed and fabricated materials, spiral welded steel pipes, air-conditioning equipment, etc.) and environmental products (environmental plants, pumps, valves for the private sector, etc.).

## The Kubota Group's major products



**Ductile iron pipes**

used in infrastructure, including water, sewage and agricultural water pipelines.

**Pumps**

used to pump water in water and sewage lines, agriculture and forestry, and in the rainwater market.

**Valves**

used to control the flow of fluids or gases in water, sewage, agriculture, etc.

**Johkasou**

used to treat wastewater in areas where there are no sewage lines.

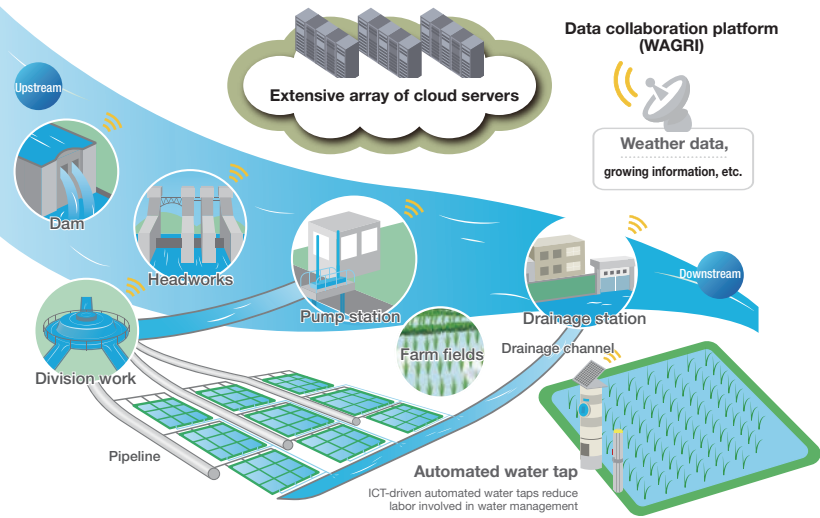
**Waste incinerator plants and ash and melting furnace plants**

used to incinerate and reduce the volume of municipal waste, as well as to contribute to decarbonization of society by using the large quantity of waste heat to generate electricity.

## Kubota's Innovation

### Kubota aims for IoT-monitored water and environment infrastructure

Kubota has developed the Kubota Smart Infrastructure System (KSIS), a new service utilizing IoT in the water and environment field. At present, R&D projects in partnership with the NTT Group, including facility diagnosis using AI, are underway, and planned to be released as a practical service. KSIS offers comprehensive solutions covering everything from individual products and plant devices to systems and after-sales services, thereby helping customers inside and outside Japan solve their problems.



### Farm Water Management System WATARAS

WATARAS is a farm water management system developed by Japan's National Agriculture and Food Research Organization (NARO) that allows users to remotely and automatically control water flowing in and out of rice paddies while monitoring water levels on a smartphone or PC.



## TOPICS

### Contributing to the sustainability and development of water infrastructure through participation in DBO projects for water treatment plants

While the recent trend has been to mobilize the resources of the private sector in designing, building and operating key infrastructure for sewage treatment and rainwater drainage as well as for water supply systems including water purification facilities, the Kubota Group contributes to sustainability and development of water infrastructure through PPP\*1 projects such as those based on DBO\*2.

For example, in March 2020 an agreement was concluded with Bizen City, Okayama Prefecture, on the construction of the Sakane Water Purification Plant and the Mitsuishi No.1 Pressure Pump Station. In this DBO project for water supply facilities (including UV treatment facilities), which is the first of its kind in Japan, the Kubota Group will undertake civil and construction work for water purification facilities and pressure pump station, in addition to the designing, building and installation of mechanical equipment as well as operation and maintenance of municipal water supply systems.



Rendering of the Sakane Water Purification Plant

Another agreement was concluded in March 2020 with Hirosaki City, Aomori Prefecture, on the renovation of the Hinokuchi Water Purification Plant, the Iwakigawa Intake Pump Station and the Tokiwazaka Booster Pump Station. Each one of these locations needs to be renovated immediately due to dilapidation and poor earthquake resistance. Specifically, the Kubota Group will undertake designing, building and installation of mechanical equipment at the water purification plant and the pump stations as well as operation and maintenance of the municipal water supply system to ensure long-term, stable and efficient operation of Hirosaki City's water project as a means to safeguard and secure water supply. The Kubota Group will continue to mobilize its resources in solving social challenges as a total solution provider for water management, offering various products, technologies and services related to water supply and sewage.



Rendering of the new Hinokuchi Water Purification Plant

\*1 PPP: Public Private Partnership  
\*2 DBO: Design, Build and Operate