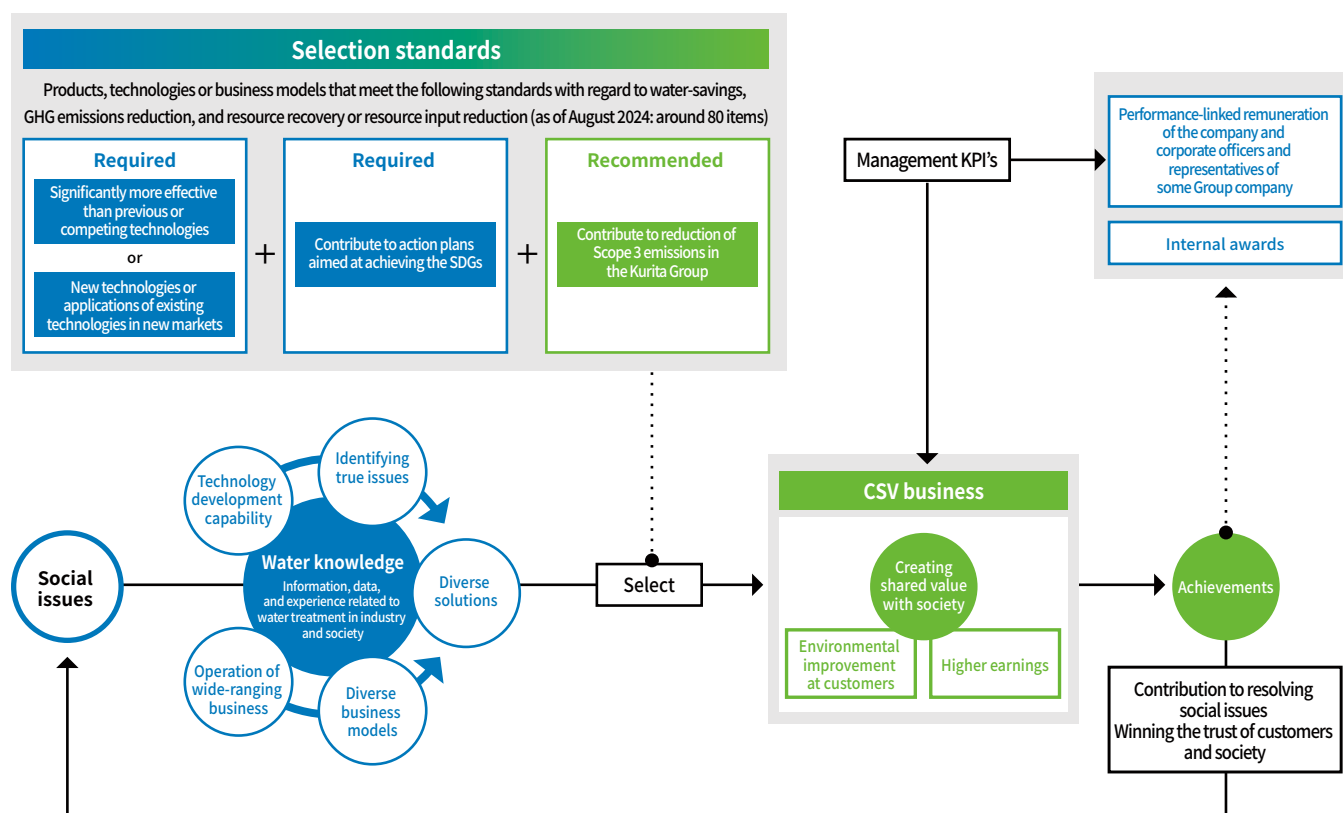


CSV Business

The Kurita Group has defined products, technologies, or business models that contribute significantly to water-saving, greenhouse gas (GHG) emissions reduction and resource recovery or reduction of resource inputs compared to previous levels as the “CSV business,” and has expressed these advantages as respective coefficients. The reduction of environmental impact from customers’ operations is calculated based on these CSV business coefficients and application results. The CSV business is also constantly reviewed in light of the development status of more competitive products, technologies, and business models.

The CSV business is an initiative that links the indicators for Shared Value Themes of the Kurita Group’s materiality—solve issues related to water resources, contribute to the realization of a decarbonized society, and contribute to building a circular economy society—with the financial targets for PSV-27. Meanwhile, metrics indicating the contribution of our CSV business to customer performance in water saving, GHG emissions reduction, resource recovery or reduction of resource input are used to evaluate the performance of personnel eligible for performance-linked remuneration, such as the executive and corporate officers of the Company and the representatives of some Group Companies.



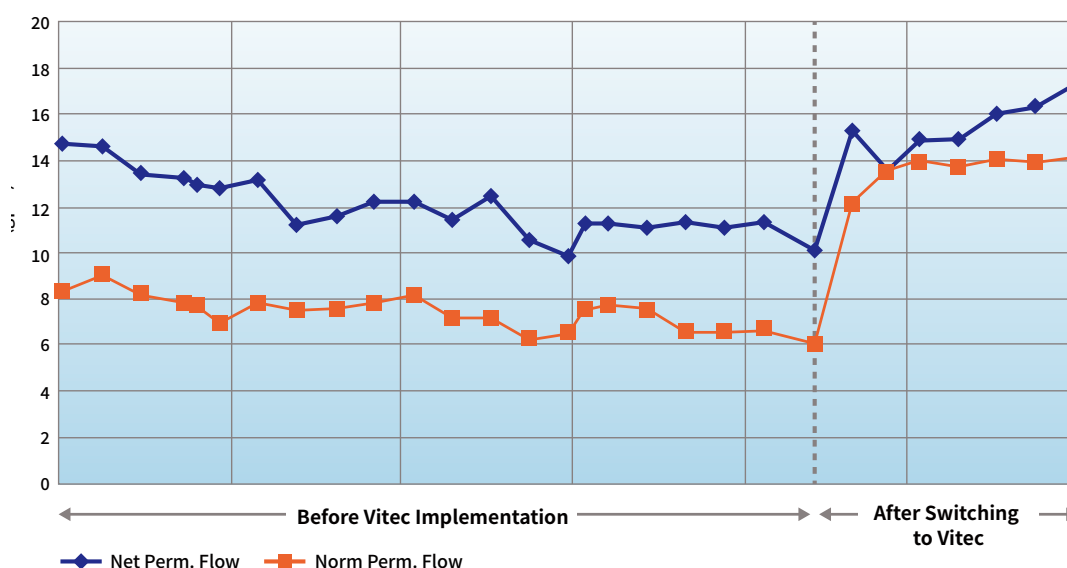
CSV Business

Representative Examples

Water Savings/Vitec series

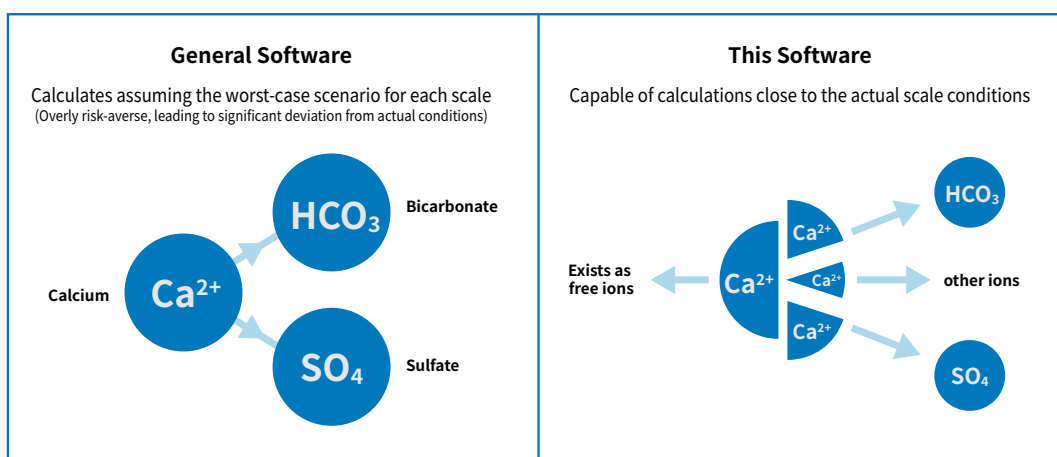
In removing impurities contained in water, RO membranes (reverse osmosis membranes) are essential functional materials and are used in a wide range of applications in water treatment, such as the production of ultrapure water and wastewater reclamation. When treated with RO membranes, the dissolved components in the water are concentrated and precipitated, adhering to the membrane surface, which increases the pressure required to permeate the raw water through the membrane. The Vitec™ series exhibits superior performance in preventing the precipitation of various dissolved components compared to conventional RO membrane treatment chemicals by optimally used based on analysis results from simulation software. This contributes to water conservation by improving the amount of treated water per unit of raw water (recovery rate) and also helps reduce GHG emissions by lowering the increase in operating pressure, thereby reducing electricity consumption.

Perm. Flow (reclamation rate) increased due to Vitec



Features of the Simulation Software

- Input water quality and operating conditions to calculate the optimal concentration of scale inhibitors
- This software calculates and predicts the complex bonding of ions



CSV Business

GHG Emissions Reduction / Kurita Dropwise Condensation Technology

The production process at many manufacturing plants uses heat exchangers to heat substances with steam. The steam transfers its heat to the treated substance via the metal surface of a heat transfer plate and then condenses, forming a film of water on the metal surface, which is known to be a factor in blocking heat transfer. Kurita Dropwise Condensation Technology induces water-repellent properties in the heat transfer surface of the heat exchanger, thus preventing the formation of a water film and boosting heat transfer efficiency. This in turn improves productivity and reduces the volume of steam required, which contributes to energy-saving. As the technology works by simply adding water treatment chemicals to the steam, it allows manufacturers to reduce GHG emissions without needing to stop production equipment or make a large-scale investment.

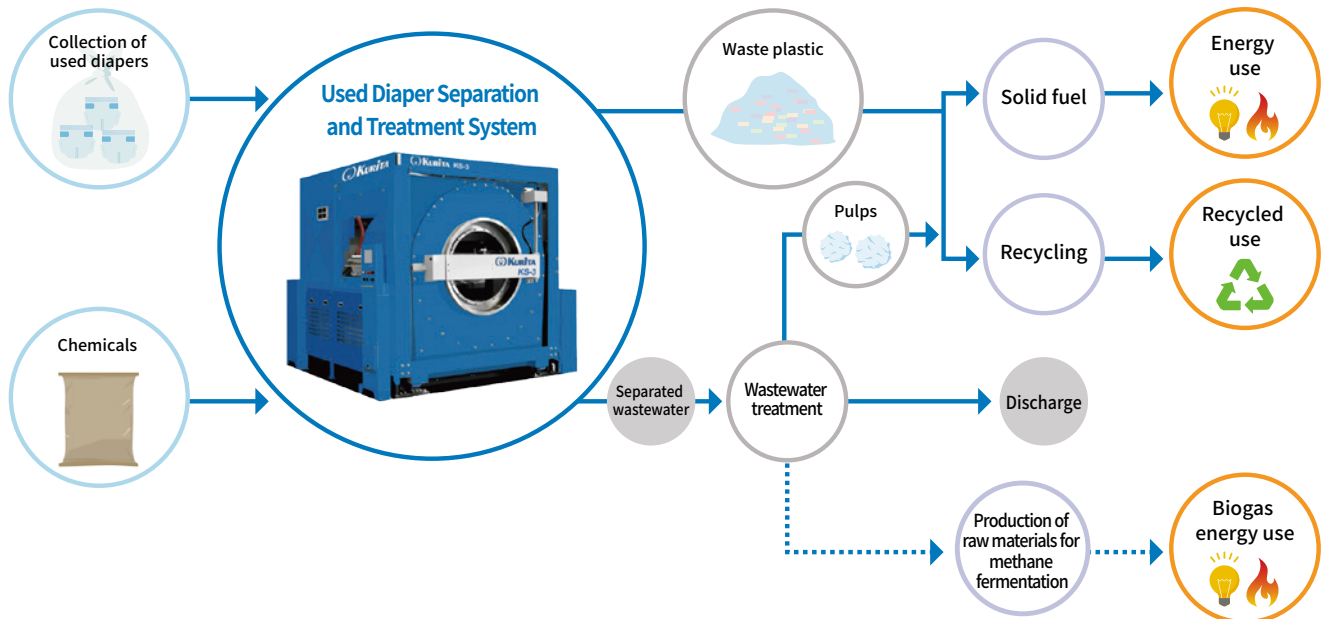
Mechanism of Kurita Dropwise Condensation Technology



CSV Business

Resource Recovery or Reduction of Resource Inputs/Used Diaper Separation and Treatment System

Used paper diapers in Japan are mainly disposed of as general waste by incineration facilities operated by waste disposal companies and local municipalities. As Japan becomes a super-aged society, the volume of waste is expected to increase. The company developed a system that washes and separates used diapers for recycling. By adding a bag-tearing function to the system, it is able to process used paper diapers that are sealed inside plastic bags, improving hygiene and operating efficiency. Used paper diapers are washed and disintegrated by the device, then plastics are separated out from the treatment water, which contains pulp. The separated components can be used for application such as solid fuel or recycling plastic.



For details on Used Diaper Separation and Treatment System, please click on the link below.

[Used Diaper Separation and Treatment System | Initiatives toward Innovation >](#)

Furthermore, we are promoting initiatives such as signing an agreement to begin full-scale business development and demonstration experiments in fiscal 2024.