

# Water Resources

Reflecting the growing interest from a global perspective in water-related problems, Mitsui & Co. stipulates efficient utilization of water in Mitsui’s environmental policy and engages in water projects and various initiatives which promotes the conservation and the sustainable use of water resources. In addition, we conduct investigations with experts for new business investment projects that are likely to have a significant impact on the environment. For risk assessments in water-stressed areas, in particular, we use the portal site Aqueduct from the World Resource Institute (WRI) to monitor and analyze water risks, not only for new business but also for our existing business, with the aim of reducing water stress.

## Long-term Supply of Water through Power Generation and Desalination Independent Water and Power Producer (IWPP) Project in Qatar

Activity

Mitsui is participating in the Ras Laffan C power and water desalination (IWPP) project in Ras Laffan Industrial City, located 80 km north of Qatar’s capital of Doha. The project was initiated in response to demand increase of electric power and water as a result of Qatar’s rapid economic growth. Qatar uses seawater desalination to produce 99.9% of its water supplies. In this project, energy efficiency will be optimized through the use of a desalination process designed to utilize waste heat from power generation.

With a power generation capacity of 2,730 MW and desalination capacity of 290,000 tons per day, this project will operate seawater desalination facilities for a period of 25 years starting in 2011. It will supply water and electric power to the Qatar General Electricity and Water Corporation (Kahramaa), accounting for around 24% of Qatar’s electricity supply and approximately 14% of its water supply.



The Ras Laffan C water desalination plant

### Mitsui’s Business Initiatives Relating to Water Resource

Business	Country	Wet weather capacity
Tap Water Supply	Thailand	1,000,000t/day
Sewage Treatment Plant	Mexico	3,600,000t/day
Power and Water Desalination	Qatar	290,000t/day
Desalination and Conveyance	Chile	Under construction

## Support through an NGO for the Development of a Rainwater Reuse System to Supply Safe Drinking Water

Activity

In mountainous areas and on remote islands in Bohol Province in the Philippines, it is difficult to access safe drinking water and water stress is high. Water from wells in coastal areas and on remote islands is unsuitable for drinking because of seawater contamination. Boat trips to buy water are a part of everyday life for island residents, imposing a heavy burden in terms of both costs and time. The Mitsui & Co. Environment Fund has provided a grant to Ikaw Ako, an NGO to fund an initiative to provide rainwater storage and treatment facilities so that residents in this region can have easier access to safe drinking water. To create sustainable water supply systems, tanks with the optimal size for each community will be designed and built by the residents, allowing the facilities to be maintained and managed locally.



A rainwater storage tank (November 2019)

## Caring for Water Resources During Shale Gas Extraction

Activity

Through its investee, Mitsui E&P USA LLC, Mitsui is engaged in the Marcellus shale gas development and production project and the Eagle Ford shale oil/gas development and production project. The gas and oil are extracted using hydraulic fracturing (fracking), and Mitsui E&P USA gives consideration water resources by ensuring that water for hydraulic fracturing (fracking water) is properly used (including the recycling of wastewater), managed, and discharged.