MEDIA RELEASE

Keppel to explore low carbon solutions for water desalination and treatment

Singapore, 20 October 2022 - Keppel Infrastructure[1] has signed Memorandums of Understanding (MOU) with subsidiaries[2] of Keppel Infrastructure Fund Management Pte Ltd (KIFM), the Trustee-Manager of Keppel Infrastructure Trust (KIT), to jointly partner on advancing innovations and the development of low carbon water solutions, among other initiatives. These research activities will be undertaken and piloted at KIT-owned facilities, SingSpring Desalination Plant and Ulu Pandan NEWater Plant.

Under the MOUs, the parties will explore the sequestration and utilisation of carbon, in combination with the capture and utilisation of hydrogen, from seawater. The pilot project will investigate the potential enhancement of electrochemical processes used in water treatment, where by-products such as chlorine and precipitates can be respectively re-used for water disinfection and to produce green construction material. The softened seawater can then be desalinated using less energy and chemicals.

In addition, the parties will explore technologies that can help to improve the efficiency and sustainability of the plants' operations in desalination, water reuse and wastewater treatment. These include the use of both non-membrane and membrane technologies that can help respectively to improve the quality of feed water for more efficient downstream processing and reduce the energy consumed in treating water.

Er Goh Eng Kwang, Executive Director, Water Services of Keppel Infrastructure said, "As a leading provider of design and engineering solutions for environmental infrastructure and an experienced operator of water treatment plants, Keppel Infrastructure is pushing the envelope for low carbon water solutions. We are exploring the use of advanced technologies at three projects, Ulu Pandan NEWater Plant, SingSpring Desalination Plant as well as Keppel Marina East Desalination Plant, to significantly reduce the environmental impact of producing clean water.

"Through Keppel's concerted efforts to research and explore innovative solutions, not only can we help our customers reduce their carbon footprint, while increasing the efficiency of their assets, but we are also contributing to sustainable development and climate action in line with our Vision 2030 strategy."

Mr Marc Liu, Head of Asset Management, KIFM said, "We are pleased to partner our sponsor Keppel Infrastructure in developing energy-saving, low-carbon solutions that will premiere at our water treatment plants. Through this collaboration, we aim to make the operations and maintenance of our assets more efficient, while significantly reducing their overall energy consumption and emissions. This collaborative effort reflects our ESG commitment to contribute towards decarbonisation and provide greener solutions in support of our customers and communities."

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[1] Through its wholly owned subsidiary, Keppel Water Services Pte Ltd
[2] SingSpring Pte Ltd (as trustee of SingSpring Trust) and Keppel Seghers NEWater development co Pte Ltd (as trustee of Ulu Pandan Trust)

About Keppel Infrastructure Trust
Keppel Infrastructure Trust (KIT) is a diversified business trust listed on the Singapore Exchange with approximately S$4.6 billion in assets under management as at 30 September 2022**.** Its goal is to deliver sustainable and growing returns to Unitholders, through a combination of recurring distributions and capital growth.

KIT's portfolio of strategic infrastructure businesses and assets provide essential products and services to a wide array of customers including government agencies, multinational corporations, commercial and industrial enterprises as well as retail consumers.

The Trustee-Manager for KIT is Keppel Infrastructure Fund Management Pte. Ltd., a wholly-owned subsidiary of Keppel Capital Holdings Pte. Ltd., a premier asset manager with a diversified portfolio in real estate, infrastructure, data centres and alternative assets in key global markets. KIT is sponsored by Keppel Infrastructure Holdings Pte. Ltd., which invests in, owns and operates competitive energy and infrastructure solutions and services.

KIT owns SingSpring Desalination Plant which utilises cost and energy-efficient reverse osmosis (RO) technology to supply up to 136,380 m3 of desalinated potable water per day. KIT's Keppel Seghers Ulu Pandan NEWater Plant has the total capacity to produce 162,800m3 of NEWater daily with an initiative by Keppel to expand the plant with a third Stage RO system to push the RO recovery to 90% since 2017. The plant features a solar photovoltaic system on its rooftops to offset the house load, which helps lower the carbon footprint of the plant and contributes to the national effort to reduce dependency on non-renewable sources of energy.

About Keppel Infrastructure
Keppel Infrastructure (KI) is a wholly-owned subsidiary of Keppel Corporation, a Singapore flagship multinational company providing solutions for sustainable urbanisation. KI provides solutions for some of the world's most pressing challenges through its power & gas, environment and new energy businesses by leveraging its proprietary technology, strong technical expertise and proven operating capabilities.

KI has a track record of developing energy and environmental infrastructure end-to-end, including power generation assets, waste-to-energy (WTE) facilities, large-scale district cooling systems, as well as NEWater and desalination plants. In Singapore, it operates a 1,300-megawatt high efficiency gas-fired combined cycle power plant and a utility pipe rack and pipe line network in Jurong Island. It is also Singapore's leading electricity retailer, and the first and largest district cooling systems developer and service provider. Globally, through Keppel Seghers, it is one of the leading WTE technology providers with more than 100 project references in 20 countries.

KI is expanding its presence, in Singapore and overseas, in areas such as power generation, waste management, district cooling, renewables and energy storage, electric vehicle charging infrastructure and other clean energy opportunities.

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