

INTERNATIONAL ENTERPRISE SINGAPORE

Waste Management

World-class environmental and waste management services



Driving
Singapore's
External
Economy

With fast-growing urban populations around the world, there is an increased focus on making cities clean, sustainable and more liveable. Rising to the challenge, Singapore has developed a range of advanced waste management technologies and strategies.

Singapore-based companies continue to pioneer new waste management techniques, and collaborate with partners worldwide to deliver their solutions.

Advanced practices

With its limited land area and dense population, it is important that Singapore has an efficient system for the collection and disposal of waste. To meet this need, Singapore has developed an advanced waste management system that minimises land use.

In Singapore, 92 per cent of waste is incinerated, while the remaining is landfilled at a unique offshore solid waste facility. Singapore's four incineration plants serve as a land-efficient method of waste management, and they provide 3 per cent of the island's electricity needs.

Overall, Singapore's integrated waste management system focuses on three areas: collection, recovery and treatment.

Core strategies for the sustainability of Singapore's waste management include:

- Minimising waste through reducing, reusing and recycling (more than 50 per cent of Singapore's waste is recycled)
- A push towards Zero Landfill
- Developing the waste management industry and positioning Singapore as a centre for waste management technology in the region



Senoko Waste-to-Energy Plant, Singapore

Owned and operated by Keppel Integrated Engineering (KIE), the Senoko Waste-to-Energy Plant has the capacity to treat 2,400 tonnes of waste a day, generating over 55 MW of energy. Together with Keppel Seghers Tuas Waste-to-Energy Plant, KIE will be able to treat up to 47.6 percent of the total volume of waste that was sent for incineration¹ in Singapore.



Biomass Cogeneration Plant, Singapore

Carbon credits generated from energy recovery activity in ecoWise's biomass cogeneration plant in Singapore were sold to Kansai Electric of Japan.

¹ According to the Ministry of Environment and Water Resources, 2.45 million tonnes of waste were sent for incineration in 2008.



Semakau Landfill, Singapore

Located 8 km south of Singapore with an area of 350 hectares, Semakau Landfill is the world's first offshore landfill created entirely from the sea space. Beyond being a site for waste disposal, through planting and landscaping, western coast of Semakau is now a scenic and idyllic recreational destination with pristine water, fresh air and a green natural environment thriving with vibrant and rich biodiversity.

Customised solutions

Building on their experience gained in Singapore, local companies have been bringing their comprehensive suite of cost-effective value-add services to clients around the world. Companies looking to tap into Singapore's capabilities will find partners that are experienced, international and able to customise solutions to meet clients' needs.

Singapore-based companies operate across the entire waste management value chain, from collection and recycling, to waste treatment, energy recovery and landfill management. They offer integrated services to optimise efficiency and deliver long-term, sustainable solutions.

Examples of overseas projects involving Singapore-based companies include:

- **ecoWise:** The company's wholly owned subsidiary, Bee Joo Industries Pte Ltd is the first Singapore-based company to successfully register a Clean Development Mechanism project and complete the Emissions Reduction Purchase Agreement. The carbon credits generated from its energy recovery activity in the biomass cogeneration plant in Singapore were sold to Kansai Electric of Japan. ecoWise also has urban waste recycling and carbon credit-eligible biomass power projects in Singapore, China and Malaysia.
- **Keppel Seghers:** The company is designing and building the Domestic Solid Waste Management Centre in Qatar, the first integrated waste management plant in the Middle East. The facility will handle and treat domestic solid waste for the whole of Qatar.



Image courtesy of Keppel

Domestic Solid Waste Management Centre, Qatar

As the first integrated waste management plant in the Middle East, the facility will handle and treat domestic solid waste for the whole of Qatar.

International Enterprise Singapore

International Enterprise (IE) Singapore is the government agency driving Singapore's external economy. We spearhead the overseas growth of Singapore-based companies and promote international trade.

With our global network in over 35 locations spanning many emerging markets, we connect businesses with relevant Singapore-based companies for their business expansion. Renowned worldwide for their dedication to quality and innovation, Singapore-based companies make ideal business partners.

We also position Singapore as a base for foreign businesses to expand into Asia in partnership with Singapore-based companies. Singapore's unique advantages of strategic location, stable government, competitive workforce and pro-business environment make it an ideal launch pad to the region.

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