

SPOTLIGHT



NEA's Circular Economy Approach in Waste Management

On 22 April 2020, NEA awarded the Keppel-led consortium a \$1.5 billion contract to develop a new Integrated Waste Management Facility (IWME¹) in Tuas. The concept of the IWME came about when NEA was reviewing Singapore's incinerator capacity in 2011. NEA Chief Executive Tan Meng Dui said: "The IWME is the first greenfield project that involves the development of two mega waste treatment facilities located side-by-side to exploit co-location synergies, and one that will spin off many similar circular economy developments in the years to come." With IWME, the amount of waste sent to Semakau Landfill will be reduced, prolonging its lifespan beyond 2035, as well as contributing to the reduction of waste in the Southeast Asia region.

1   Read [more](#) >>



Image: NEA CEO Mr Tan Meng Dui, NTU President Prof. Subra Suresh and Minister (Environment and Water Resources) Mr Masagos Zulkifli.

Redefining Waste: NEWSand™

Putting the new in waste reduction and management, NEWSand transforms treated Incineration Bottom Ash (IBA) and slag into literal building blocks of life. The results of the NEWSand project has resulted in the building of a concrete footpath linking One Tampines Hub to the Darul Ghufuran Mosque and to pave a footpath right in front of the Environment Building along Scotts Road. NEWSand is one of the many innovations developed in a bid to reduce the average daily amount of waste sent to Semakau Landfill by 30 per cent from 0.36 kg/capita in 2018 to 0.25 kg/capita by 2030. With the landfill's lifespan shortening by the minute, it is imperative to close the waste loops and adopt more resource efficient strategies.

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Image: Replanted mangrove at the Southern plot of Semakau Landfill.

The Road Less Known: A Defining Eco-Vision

2019 marked the 20th anniversary of Semakau Landfill. In November 2019, NEA was awarded the 2019 Hassib J. Sabbagh Award for Engineering Construction Excellence by the World Federation of Engineering Organisations, for its outstanding engineering feat in the development of Semakau Landfill. This prestigious international award affirms NEA's efforts to leverage technology to manage our country's waste effectively and sustainably. Semakau Landfill is Singapore's first – and only – offshore landfill. Today, it is not only a landfill, but a coastal and marine biodiversity haven. With the ways forward, it can be featured as an illustration of sustainable development which addresses many of the United Nations Sustainable Development Goals to achieve a better and more sustainable future for all by 2030.

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Image: Zero Waste SG's Founder, Mr Eugene Tay, and manager, Ms Pek Hai Lin, at their BYOB pre-launch media event together with MP Louis Ng.

COVID-19 Circuit Breaker: Cutting Down on Plastic Disposables

Recent calls from the government to encourage the public to "Bring Your Own container" for takeaways during the COVID-19 circuit breaker is beyond environmental reasons – with lockdowns ensued across the world, manufacturing, transportation and distribution of essential goods such as medical supplies and food are severely affected. The crisis has brought to light the importance of collaboration efforts by Zero Waste SG (ZWSG) in partnership with the government and companies to encourage the general public in cutting down on plastic disposables.

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STAY UPDATED



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20 - 21 Dec
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OPPORTUNITIES

Our team welcomes you to join us in our journey of transforming Singapore into a zero-waste nation, together with its people - you. Do you have a burning question? Want to share your views or an interesting piece of information?



Share with our team [here](#) >>



STAY TUNED...

Here's a sneak preview of some interesting reads coming in ENVISION Issue 18!



The COVID-19 has certainly contributed to uncertain times. Not just to daily life, but also to environment. With increased demand for online food deliveries, there has been a rise in use of disposable plastic. NEA Jaren Soo reports on the efforts put in place by various OFDs in creating a more sustainable consumption chain.



Researchers have found that art is capable of engaging people on an emotional level. Using art to advocate is not new, but what could it do for a safe and sustainable environment? NEA Chew Li Hong applies an artistic approach on NEA's Project Wolbachia:

*A whirlwind romance ensues,
almost as quickly
Lady Aedes is expecting an
entomological fete -
"Finally I'll be a Mom!"*
Read the full eco-poetry in Issue 18!