FACT SHEET

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NTU SPIN-OFF SUPPORTS SINGAPORE’S PUSH TOWARDS BECOMING
GLOBAL ENVIRONMENTAL TECHNOLOGY HUB

About IESE

The Institute of Environmental Science and Engineering (IESE) was established as A

IESE acts as a receptacle for innovative environmental technologies (ET) and provides
value-added research, development and deployment of these ET through its four
research centres – Water & Membrane, Clean Energy, Marine & Resource Recovery
and Environmental Engineering.

The aim of IESE is to create, innovate and conduct basic research to accelerate
commercialisation that will establish Singapore as an ET hub for environmental science
and engineering.

Its services include:

- Technology Demonstration and Commercialisation
- Contract Research for industrial clients
• Wastewater Treatment, APC Systems Engineering & Design
• Feasibility Studies and Consultancy
• Conferences and Workshops

For more information, please visit www.ntu.edu.sg/IESE

About Environmental Technology

Environmental Technology (ET) refers to technologies concerned with preserving the natural environment by recycling waste products produced by human activities. It could refer to hardware-based systems or methods or techniques used for pollution prevention, pollutant reduction, or containment of contamination.

As environmental impact of business activities become an increasingly important consideration worldwide, companies and governments will increasingly look to environmental technologies to achieve sustainable growth.

About MoUs signed on 3 Aug 2005

1. Ferrate Treatment Technology (USA)
   - FTT (USA) is an international US-based technology company
   - Successful research collaboration between IESE and Ferrate Treatment Technology (USA) to demonstrate the application FTT’s technology on shipboard ballast water treatment. Both companies will set up a JV to explore commercialisation of this application, as well as potential water & wastewater applications

2. Norwegian University of Science and technology, Norway (NTNU)
   - A University with academic eminence in technology
   - IESE and NTNU will work on a collaborative project that aims to develop technologies to treat the liquid waste generated onboard ships, and ultimately aims to help prevent marine pollution caused by shipboard activities

3. Industrial Technology Research Institute, Taiwan (ITRI)
   - ITRI is an R&D organization engaged in applied research and technical services, with focus on technological needs of Taiwan's industrial development.
   - IESE is currently pursuing four environmental projects in the region together with ITRI and local environmental companies. Part of the revenues from these projects will be used as the working capital for the JV unit which will specialise in providing design and engineering services to local and regional industries
4. **Ecotech Environmental Pte Ltd, Singapore**
   - A local environmental company with diverse interests in environmental and waste management, which has been working on the recovery of used motor oil in the past few years
   - IESE developed a patented technology to recycle used lubricant oil to recover near-base oil quality products. IESE will work with Ecotech and other parties to commercialise the technology in Singapore, Southeast Asia and China

5. **Green Gas Generators Pte. Ltd., Singapore**
   - Green Gas Generator Pte Ltd (GG) has developed a cost-effective hydroxyl generator for the application of metal cutting and welding. IESE has developed several applications while under R&D contract to GG
   - Currently, GG and IESE are working together to commercialise the patented technology for the regional air pollution control market

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