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Technology

In Singapore, SembEnviro Technology is engaged in the development and marketing of technological solutions for the environmental management industry. Notable developments include a **pneumatic waste conveyance system** marketed under the SINGMATIC brand name, a dedicated chute system for recyclables (known as RICH), a customer-recognition on-board weighing system, and Global Positioning System for fleet tracking, amongst others.



Singmatic System

The SINGMATIC System is a high-end **pneumatic waste conveyance system** that caters to property developments with complex and challenging waste storage and handling requirements. Under this fully closed system, refuse is sucked from concealed storage tanks through a network of pipes. Pest and odour problems commonly associated with the manual collection of refuse from bins and bin centres are eliminated. The system can be retrofitted into refuse chute chambers or bin centres of existing buildings. The SINGMATIC System is the ideal solution for those who demand the highest standards of hygiene and cleanliness, in their living/working area.

Roll On-Off Suction Equipment (ROSE)

ROSE is locally developed mobile-type pneumatic waste collection system. The ROSE is a self-sufficient unit that is compatible with most hook-lift trucks. Programmable logic allows customised solutions in different applications, both as mobile and stationary system. This unit enhances reliability and facilitates export or both overseas applications

Customer Recognition On-board Weighing System (CROWS)

The answer to waste tracking, CROWS realizes the concept of "pay per throw" with real time information on customer's tonnage, travelling time data and the location of the vehicle in any part of Singapore.

The technology incorporates on-board weighing capability, Radio Frequency Identification (RFID), Wireless Data Transmission and Global Positioning System. This is a unique "Smart Waste" technology that allows clients to monitor their collection patterns daily, without any hassle.

The Recyclables Intermediate Chute Storage System (RICH)



RICH, a separate chute for commingled recyclables is an innovative method of storing recyclables within the chute. It is the first of its kind and a potent recycling infrastructure that enables 24 x 7 recycling for multi-storey housing in Singapore. With a design suited for retrofitting to existing buildings, RICH is able to reach out to a wide market comprising ready-built HDB flats, condominiums, offices and other high-rise buildings. This capability would aid the nation in reaching its goal of 60% rate of recycling by 2012.

Enviro-EZ

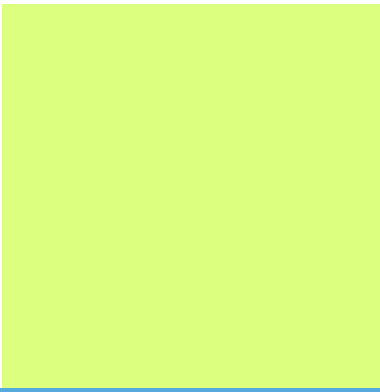
The Enviro- EZ, the revolutionary OMO chute bin collection vehicle, is a hygienic, efficient & versatile alternative to the conventional mode of refuse collection in mature housing estates. Coupled with hydraulic tipping, vacuum suction and compaction capabilities, it eliminates the need for manual lifting and tipping of chute bins in HDB flats with individual refuse chute system.



Enviro-EZ sets new standards for hygiene and productivity in waste management for mature housing estates.

GPS

This vehicle tracking system enhances the monitoring and



control management of the vehicles in the area of operation. The system captures vehicle location data and transfer data wirelessly through GPRS network at a defined time interval. With this system, supervisors can view and track the equipped vehicles on an electronic map at the control centre anytime at the click of a mouse.

This vehicle tracking system is fully customized specially for SembEnviro operation. It will enable SembEnviro to monitor the movement of their vehicles more efficiently, resulting in positive improvements in resource productivity and customer satisfaction.



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JTC offers innovators opportunity to develop new ideas at one-north

By Johnson Choo, Channel NewsAsia

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SINGAPORE : Budding technopreneurs now have a new playground at one-north to try out their ideas - even the unproven ones.

It is part of a programme called Excite@one-north that has just been launched at the Biopolis.

The new 7-block Biopolis in one-north will eventually house some 2,000 researchers, but unlike a HDB precinct of the same size, you will hardly see a single cleaner sweeping up - and there will not be rubbish bins at every corner that need to be emptied.

What the landlord, JTC, has done is to outfit the entire property with a **pneumatic waste collection system.**

It is just one of the experimental projects being tested.

The system links refuse designated disposal points through a network of steel pipes - which are completely hidden.

Rubbish from every corner of the complex is sucked to a centralised collection point.

Instead of an army of cleaners going around collecting rubbish, a suction motor is able to suck rubbish from up to one kilometre away, and bring it all to the rubbish collection centre.

This rubbish collection system was tested four years ago in a block of HDB flats in Choa Chu Kang, but commercial interest then was lukewarm.

Teo Ming Kian, Chairman, Economic Development Board, said, "Many of us are quite risk-averse. We always look for proven products. Same with innovators, who have new ideas, they'll find it tremendously difficult for their, especially break-through and unproven ideas, to be adopted at all. So this Excite@one-north provides that opportunity for these ideas to be tested, and if they're successful, to enjoy the track-record, so that they could then be able to market to other people."

One such project which has been tested at Biopolis and is now going to be rolled out commercially is the District Cooling System.

Although it does not feature any new technology, its innovative operating system makes it 30 percent cheaper to operate than a conventional cooling system.

And by chilling water during off-peak periods, electricity bills can be cut by up to 20 percent.



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Lee Soon Eng, CEO, First DCS, said, "We have skeptical people out there, (who are) not able to grasp what we're saying. So the best way is to prove it in a real life test case, and more importantly on a commercial basis."


Chong Lit Cheong, CEO, JTC Corporation, said, "The tenants and lessees, and people who live and work and play here find that this is very vibrant - a place for them to do business, a place for them to come up with new ideas."

Under the excite@one-north programme, technopreneurs or researchers who want to test-bed their ideas can even seek funding and help to protect their intellectual property rights.

A committee, chaired by officials from the JTC and EDB will assess all applications. - CNA

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