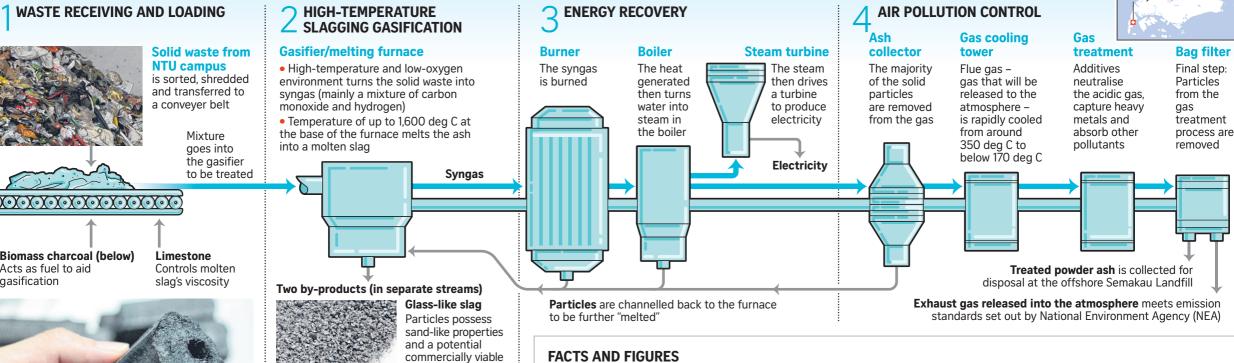
Not gone to waste

Singapore's first waste-to-energy research facility converts solid waste to a usable synthesis gas (syngas), electricity and other useful by-products using a cleaner and more efficient method known as gasification. Here is how it works.



\$40 million project

Jointly funded over 10 years by the National Research Foundation, Economic Development Board, NEA and Nanyang Technological University

9 to 10

Operational personnel, excluding researchers. at the waste-to-energy research facility

11.5 tonnes

Amount of waste that the facility is able to handle daily

0.7ha

Size of land leased from JTC

About 97%

Reduction in the weight of the waste to be disposed of after the process

Up to 30 kilowatts

and play features enable the testing of innovative technologies in the waste-to-energy and waste-to-materials domains

The facility's plug

facility

Power output

diameter NOTE: Final forms are the result of natural water cooling

Recyclable beads

of up to 5mm in

construction

Metal alloy

material

Source: NTU PHOTOS: LIM YONG, NG SOR LUAN STRAITS TIMES GRAPHICS