



## **Representative Project**

**75 to 100 ton per day TOPS w/ Power**

**Mixed waste (liquid and solid) system able  
to handle regular and hazardous waste.**

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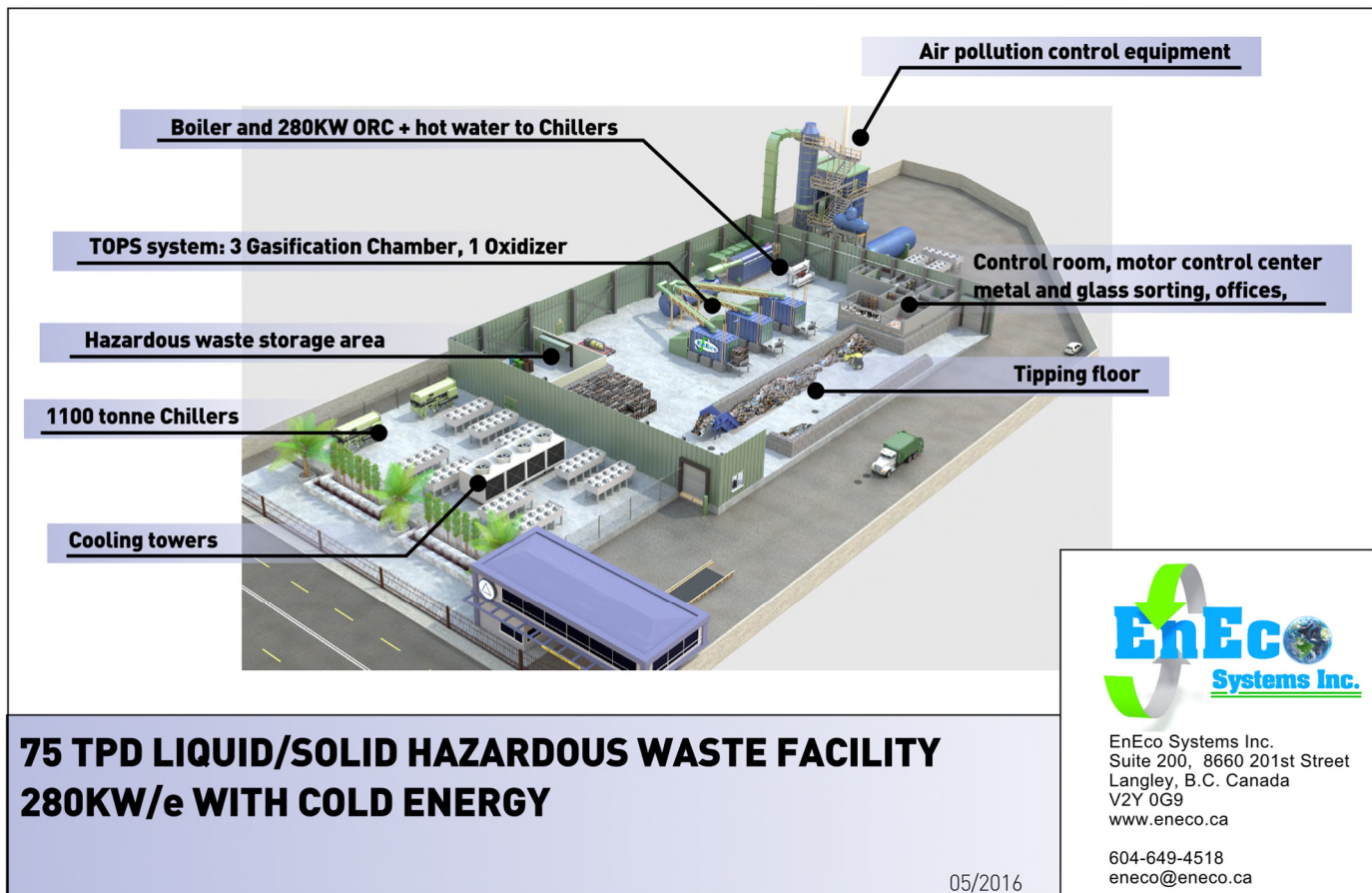
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## Philippines TOPS Installation (in progress):



### PROJECT FEATURES

This is a unique plant design in that both liquid and solid hazardous waste generated by multi-national companies will be processed safely to EU Standards under one roof. Renewable energy in the form of electricity and cold water will be produced. (Cold water is used to provide cooling to a neighboring semi-conductor manufacturing plant.)

Waste is weighed on scales and unloaded inside the building on the Tipping Floor. This area of the building is kept under negative pressure. All air-borne organic compounds are processed in the TOPS Gasifiers or Oxidizer. This means that if a load of waste with odour was received, the odour would be contained in this area of the building until the compounds causing the odour were drawn into the TOPS units.

Hazardous wastes received are tracked with a bar-code system. Information as to when each load is received, where it is stored prior to processing, when it was processed and the status of the plant at the time of processing is kept and provided to each client. The waste generator, by using this service, is released from all liability with respect to hazardous waste related disposal.

The TOPS equipment is also capable of processing medical and clinical waste, tires, commercial and industrial waste together with regular municipal waste. Even municipal sludge may be accepted.



# TOPS Installation (Estimated completion: Q3—2017)



Entrance to the Cebu Light Industrial Park: home to the project site.

## Tour of Hazardous Waste Plant

(Operational: Q2 2017)



**Boiler and 280KW ORC + hot water**

**TOPS system: 3 Gasification**

**Hazardous waste storage area**

**1100 tonne Chillers**

**Air pollution control equip**

**Control room, motor control center metal and glass sorting, offices,**

**Tipping floor**



Syngas Oxidizer



Scale



Arial View



# TOPS Installation (in progress - June 2017): Philippines



Entrance to the Cebu Light Industrial Park: home to the project site.



Left: Picture of site taken from Knowles Building (above). Knowles will purchase cold water generated by the TOPS plant using the absorption chillers shown above.



TOPS Gasifiers on foundations (Left) together with Boiler and Secondary Syngas Oxidizer (Right)



Air Pollution Control System

