Keppel Seghers is a leading provider of comprehensive environmental solutions, and provides consultancy, design and engineering, technology development, construction, operation and maintenance of plants and facilities, as well as investments in large-scale environmental projects.

Keppel Seghers’ advanced technology solutions address a wide spectrum of environmental issues for both solid waste and water.

To date, Keppel Seghers has executed more than 100 waste-to-energy projects and more than 350 water and wastewater projects in more than 25 countries worldwide.

Keppel Seghers is a wholly-owned subsidiary of the Keppel Infrastructure group, which is a division of Keppel Corporation Limited, a leading company listed on the Singapore Exchange.
Since joining the European Union (EU) in 2004, Poland is committed to the implementation of EU Landfill Directive which involves reducing landfilling of biodegradable waste.

Offering its proven Waste-to-Energy (WTE) technology and extensive experience from implementing its solutions in more than 100 WTE projects around the world, Keppel Seghers was part of a consortium that won the Engineering, Procurement and Construction contract for the 372 tonnes per day waste-to-energy combined heat and power project in Białystok, Poland.

Keppel Seghers will supply its proprietary WTE technology, including its air-cooled grate and vertical boiler, which are designed to achieve efficient energy recovery and operational reliability.

When complete, the plant will process approximately 120,000 tons of waste per year, reducing the amount of municipal waste sent to the landfill site in Hryniewicze from over 90% to about 12%.

The facility will generate approximately 8.6 MW of electricity during summer, while during winter, it will supply 17.5 MW of thermal energy to the Białystok’s district heating and generate 6 MW of electricity to the grid.

Keppel Seghers is privileged to be in the position to leverage its top-quality, technologically advanced and sustainable waste management solutions to support Poland in achieving its environmental goals and meet its EU obligations.

### General Information

**Client**

Przedsiębiorstwo Usługowo-Handlowo- Produkcyjne “LECH” sp. z o.o

**Scope**

Design, equipment supply, installation, testing and commissioning of furnace (air cooled grate), vertical boiler, conditioned dry flue gas cleaning system, DCS, bottom ash handling, and solidification of boiler ashes and air pollution control/ash.

**Planned start-up**

End 2015

**Project partners**

Budimex S.A and Cespa Compania Espanola de Servicios Publicos Auxiliares S.A

### Technical Data

**Fuel**

Municipal Solid Waste

**Waste throughput**

15.5 t/h or 120,000 t/year

**Incineration grate**

Keppel Seghers air-cooled grate

**Number of process lines**

1

**Primary air preheating**

60 °C – 200 °C

**Calorific value of waste**

7.5 MJ/kg (designed for a range of 6 – 12 MJ/kg)

**Thermal capacity**

32.3 MWth (design value)

**Boiler type**

Vertical radiant / convection section

**Steam pressure and temperature**

40 bara; 400 °C