



COMPANY PROFILE

Nehlsen Ghana Limited

In October 2011, Nehlsen GmbH of Germany in partnership with a Ghanaian local engineering company (HEHOA Project Engineering Co. Ltd) established Nehlsen Ghana limited. This company, which was a subsidiary of the parent company Nehlsen AG of Germany but now a 100% Ghanaian owned company, employs all the technology and operation methods of Nehlsen to transfer the know-how of Nehlsen to Ghana and other West African countries. Main activities being undertaken by Nehlsen Ghana then, were sewage sludge and septic waste collection and safe disposal from private and industrial clients such as Nestle Ghana, Fanmilk Ghana and Wilmar Foods Africa Ghana a few years ago, but the company has diversified and changed its objects to focus on Thermal and Renewable Energy generation as well as Waste treatment for value addition. One of the subsidiaries of Nehlsen Ghana Ltd is Nehlsen Ghana WtD Plant Ltd which is developing a project to build the first waste-to-diesel (WtD) plant in Africa at 240 million litres per annum capacity. More information can be obtained from www.nehlsenghanalimited.com.

Nehlsen GmbH, an internationally operating German waste management company, has extensive experience in the collection, treatment and management of a broad variety of municipal and industrial waste, either of non-hazardous or hazardous nature. For more than 8 decades Nehlsen strives to suit the clients' needs and to carry out professional and sustainable services. Being among the 5 biggest waste management companies in Germany, Nehlsen now operates from more than 60 locations in Germany, Europe and Africa. Around 4,000 employees generate an annual turnover of approximately EUR420 Million (2018).

In the field of municipal solid waste management, Nehlsen covers today the entire range of services necessary to cope with the most recent challenges with respect to technical standards and legal requirements.

Nehlsen collects waste not only in densely populated urban centres but in very remote areas, too, including some islands in the North Sea. As well as in the field of sorting and treatment of waste, Nehlsen is experienced in the whole set of technologies available to deal with municipal and industrial waste (except radioactive material). Plants operated by Nehlsen include, sorting plants, mechanical-biological treatment units, fermentation plants, power plants and waste incinerators. Additionally, to the above-mentioned services, Nehlsen offers to industrial clients to take care of their internal waste management and provides services from the cradle of waste generation in industrial processes thus guaranteeing an utmost high recycling rate of materials.



VISION

To be champions and part of the pioneers working to ensure that waste in Ghana in particular and West Africa as a whole has a value and no more considered as waste or nuisance causing entity.

MISSION

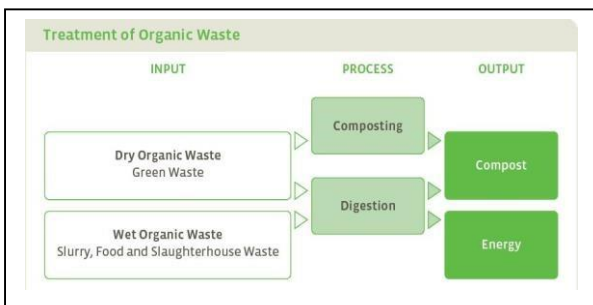
Nehlsen Ghana limited is a company that is based on the traditional values of its founders and has a forward-thinking approach to achieving environmental sustainability; offering cutting-edge solutions and providing services to clients for waste and resource management. From collection through treatment to safe disposal, plant planning, engineering, procurement, construction and operation.



SOLUTIONS AND SERVICES

Collection and Treatment of Organic Waste

The treatment of organic waste, such as green waste, food waste or animal by-products, represents an important aspect of our closed-loop waste management concepts. The process of treatment begins with the collection of waste. The waste can be in either of two forms: wet organic waste (Slurry, Food and Slaughterhouse Waste) and dry organic waste (green waste). The collected waste now goes through the process of either composting or digestion. The end product of this process then yields to a compost or energy.



From Waste to Energy

Our approach to integrated waste management involves recovering materials from waste where possible and closing the loop by finding ways to utilize residual waste and to substitute primary resources.

Some waste-to-energy technologies we use include Waste-to-Energy by incineration, Waste-to-Diesel using chemical catalytic conversion, and Waste-to-Energy by digestion of organic materials to produce bio-methane.



PROJECTS UNDER DEVELOPMENT

1. Waste-To-Diesel Plant

A Waste-to-Diesel project of **255 million litres** a year is being developed at **Kpone-Katamanso** in the **Republic of Ghana** in collaboration with the municipality. In this project, 650,000 tons of municipal solid waste and waste cooking oil collected from food joints, restaurants and hotels will undergo a chemical catalytic conversion process to produce synthesized high-grade diesel (EN590).

2. Waste-To-Diesel Plant

A waste-to-diesel project of **255 million litres** a year is being developed at **Asokwa – Kumasi** in the **Republic of Ghana** in collaboration with the municipality. In this project, 600,000 tons of municipal solid waste and waste cooking oil collected from food joints, restaurants and hotels will undergo a chemical catalytic conversion process to produce synthesized high-grade diesel (EN590).

3. Waste-To-Diesel Plant

A waste-to-diesel project of **40 million litres** a year is being developed at **Sekondi** in the **Republic of Ghana** in collaboration with the municipality. In this project, 225,000 tons of municipal solid waste and waste cooking oil collected from food joints, restaurants and hotels will undergo a chemical catalytic conversion process to produce synthesized high-grade diesel (EN590).

4. Waste-To-Diesel Plant

A waste-to-diesel project of **40 million litres** a year is being developed at **Kasoa** in the **Republic of Ghana** in collaboration with the municipality. In this project, 230,000 tons of municipal solid waste and waste cooking oil collected from food joints, restaurants and hotels will undergo a chemical catalytic conversion process to produce synthesized high-grade diesel (EN590).

5. 150MW LNG Fired Thermal Plant

A **150MW** Thermal plant that will run on LNG and synthesized diesel This project is designed to have a solar component at a future date with some additional infrastructural development in power lines and substations in **Sierra Leone**.

6. 150MW Power Plant

A **150MW** power plant that will run on LNG and synthesized diesel is being developed in Ouagadougou in **Burkina Faso**

7. 30MW Waste-to-Energy Power Plant

The project was for construction of a **30MW** Waste-to-Energy plant at our project site near the TMA landfill at the **Kpone-Katamanso** industrial area near Tema in the **Republic of Ghana**. This plant was to utilize 380,000 tons of burnable municipal and household waste to generate 240 million kwh of electricity every year. However, due to the restriction on the issuance of PPA's for energy production, it was redesigned to produce diesel as stated above.

Nehlsen Ghana Limited in association with our partners can develop and implement:

- Waste collection system and treatment into synthesized diesel for power generation
- Combined heat and power plants using refuse-derived fuel
- Mechanical biological stabilisation/treatment plants
- Composting/digestion of green, bio and food waste
- Sorting plants for household packaging, commercial, construction and bulky waste

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