

THE ENERGY AND CLIMATE NEUTRAL WASTEWATER TREATMENT PLANT

CASE STORY

GAS ENGINE PLANT



One step closer to self-sufficiency

With the new engine, Laholmbuktens VA has future-proofed the utilization of the biogas produced at the treatment plant.

The lifetime of the plant is calculated to be 15 years with a calculated payback period of < 7 years based on an electricity price of 0.5 Skr. kWh electricity, 0.15 Skr/kWh for heat production, and a return on capital of 1.5%.

By utilizing the biogas, the treatment plant has achieved a degree of self-sufficiency of over 70% of its own consumption of electricity and can produce heat for the digester and for the administration buildings.

In its first ¼ year, the plant has had an uptime of > 94% and with the gas produced, the plant has been able to run with an average load of 82% and produced 2,617 MWh.



**Laholmbuktens VA
Västra Strandens ARV**



Gas engine



**530 kW Electricity
544 kW Heat**



5 May 2021



< 7 Years





The customer experience

Laholmsbuktens VA AB took the decision in 2020 to replace the existing gas engine at Västra Strandens Reningsverk with a new gas engine.

After a normal bidding round, NISSEN energy was chosen as the supplier of the new gas engine, type MAN E3262 LE212.

The delivery was started in the spring of 2021 and completed during the summer. Purchase and subsequent assembly/start-up were carried out without any problems and we have nothing but praise for NISSEN energy.

After handover, a NISSEN energy service agreement has been entered into. Laholmsbuktens VA is very satisfied with NISSEN energy's commitment and looks forward to the continued work.



Laholmsbuktens VA

*Michael Carlsson
Operations Controller*

NISSEN VALUES

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We take pride in our job. We believe in growth and strong relationships - both internally and externally.
You can reach us 24/7/365.

We want to achieve positive results. We are ambitious in the development of our products, services and partnerships.
We want to achieve the best possible solution for all stakeholders.

We approach our tasks with initiative, responsibility and efficiency.

*Michael B. Nissen
CEO*

