

# DHS Lielaucē



(Boiler house «Niedras», Lielaucē parish, «Auces komunalie pakalpojumi», Ltd.)

- Location: **Lielaucē parish, Auce county, Latvia**
- Operating since: **2004**
- Ownership: **municipality**
- Grid: **300 m** (owned by the DHS)
- Customers: **96**
- Connected load: **540 kW**
- Boiler output: **0,6 kW**
- Type of DHS: production and distribution of **hot water for heating**
- Current fuel: **wood chips**
- Potential renewables nearby: **wood-chips, solar thermal energy**



Source: «Auces komunalie pakalpojumi», Ltd.

Investment plans: **Modernisation of the heat source without replacing the existing boiler**, planned by the end of 2020

For more information:

- <http://www.keepwarmeurope.eu/country-pages/latvia/english/>
- [www.auceskp.lv/komunalie-pakalpojumi/siltumapgades-saimnieciba](http://www.auceskp.lv/komunalie-pakalpojumi/siltumapgades-saimnieciba)

# Boiler house and grid modernisation



## Primary work-steps and investment drivers:

- Installation of frequency changer for network pumps;
- Change of grid: installation of industrially isolated single channel pipes with less diameter;
- Automation of fuel supply with a sliding floor and a fitted conveyor;
- Availability of EU Funds and low cost loans.

## Strategic background documents:

- National energy and climate plan of Latvia for period 2021-2030;
- Energy Law;
- Energy Action plan of Auce county, 2018-2025;
- Medium-term operational strategy plan of «Auces komunalie pakalpojumi», Ltd. 2019-2021.



## Stakeholder involvement:

- Leading: DHS owner (municipality), state financial authorities, banks, technologies` suppliers;
- Other: customers, government, fuel suppliers, state regulatory office.



## Required resources:

Financial investment: **65 000 EUR**;  
New equipment: **a sliding floor and a fitted conveyor, frequency changer for network pumps, industrially isolated single channel pipes with less diameter**;  
Additional staff: **external professionals for installation of new equipment.**



## Results:

- RES-share : **before 100% ⇒ after 100%**
- RES/fossil heat production ratio: **100% RES**
- Reduction of losses: **27% ⇒ 10%**  
Primary energy input: **1423 MWh/year ⇒ 1178 MWh per year**
- CO2 emissions: **0 t/year**
- Internal Rate of Return(IRR): **29%**
- Discounted repayment period : **4 years**

**Want to adapt our work to your DHS?**  
**Want to invest in our progressive DHS?**  
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