

# DHS Jekabpils



(Boiler house at Celtnieku street 13A, Jekabpils, «Jekabpils Siltums», Ltd.)

- Location: **Jekabpils city, Latvia**
- Operating since: **2003**
- Ownership: **municipality**
- Grid: **1362 m** (owned by the DHS)
- Customers: **15 multiresidential buildings**
- Connected load: **3649 kW**
- Boiler output: **3360 kW (2 boilers)**
- Type of DHS: **production and distribution-hot water supply**
- Current fuel: **wood chips (93%) / gas (7%)**
- Potential renewables nearby: **woodchips, solar energy**



Source: «Jekabpils Siltums»,  
Ltd.

**Investment plans: Reconstruction and automatization of boiler house,**  
planned within next 2-3 years

For more information:

- [www.keepwarmeurope.eu/country-pages/austria](http://www.keepwarmeurope.eu/country-pages/austria)
- [jekabpils-siltums.lv/lv/par-uznjeemumu-63321/inform%C4%81cija-par-kapit%C4%81sabiedr%C4%ABbu](http://jekabpils-siltums.lv/lv/par-uznjeemumu-63321/inform%C4%81cija-par-kapit%C4%81sabiedr%C4%ABbu)

# Boiler house reconstruction and automatization



## Primary work-steps and investment drivers:

- Change of wood-chips boiler to new, automated wood-chips boiler (1MW);
- Automation of existing gas boiler;
- Installation of additional new automated 0,5 MW gas boiler (for summer load);
- Availability of EU Funds and low cost loans.

## Strategic background documents:

- National energy and climate plan of Latvia for period 2021-2030;
- Energy Law;
- Sustainable Development Strategy of Jekabpils city by 2030,
- Medium-term operational strategy plan of «Jekabpils Siltums», Ltd. 2019-2022.



## Stakeholder involvement:

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



## Required resources:

Financial investment: **510 000 EUR**

New equipment: **wood-chips boiler (1MW), gas boiler (0,5MW), equipment for automation of an existing gas boiler**

Additional staff: **external professionals for installation of new equipment.**



## Results:

- RES-share : **before 93% ⇒ after 78%**
- RES/fossil heat production ratio: **78%/22%**
- Reduction of losses: **remain same at 7% level**
- Primary energy input: **6736 MWh/year ⇒ 4907 MWh per year**
- CO2 emissions: **205,698 t/year**
- Internal Rate of Return(IRR): **14%**
- Discounted repayment period : **8 years**

**Want to adapt our work to your DHS?**

**Want to invest in our progressive DHS?**

**Contact us using the information below!**

• [zrea@zrea.lv](mailto:zrea@zrea.lv) /[www.zrea.lv](http://www.zrea.lv)

• <https://www.jekabpils-siltums.lv/>