KeepWarm

DHS Nova Varoš

("Energija Zlatar NV")

Location: Nova Varoš, Serbia

Operating since: 1981

Ownership: Municipality of N.Varoš

Grid: 4638 m (owned by municipality)

Customers: 765

Renewing district heating

Connected load: 9538 kW

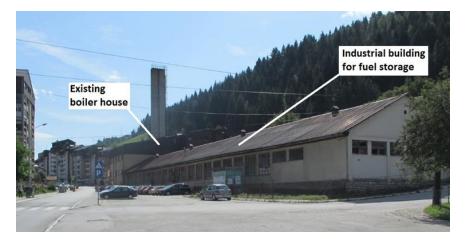
Boiler output: 15520 kW (12 boilers)

Type of DHS: hot-water

Current fuel: oil, pellets

Potential renewables nearby:

wood chips



Source: http://www.bioenergy-serbia.rs/images/documents/st udies/Biomass in DH 2014.pdf

Investment plans:

Reconstruction and modernization of all boiler rooms and distribution network, transition from fossil fuels/oil to biomass in existing boiler houses, planned in the next 2 years.

For more information:

· www.keepwarmeurope.eu/country-pages/serbia

• energijazlatarnv@gmail.com

Construction of a new 3.0 MW boiler on wood chips with, extended operation including night shift, integration of grid



Primary work-steps and investment drivers:

- First planning, coordination of project
- Contract with PIMO or KfW, producing documentation, selection of bidder,
- Construction phase, obtaining new customers,
- Test phase, training of staff

Strategic background documents:

- Energy Sector Development Strategy of the Republic of Serbia for the period by 2025 with projections by 2030
- The National Sustainable Development Strategy



Stakeholder involvement:

- Leading: Nova Varoš municipality & DHS operators, KfW, PIMO, Regulatory and energy agencies
- Other: Wood chips producers (Holz Tim, Jela Star, Zlatar Šped)

Required resources:

Financial investment: 1640000€

Additional staff: -

Other: fuel, maintenance, eletricity...



Results:



- RES/fossil heat production ratio: 0,95
- Reduction of losses: via primary energy savings: 5%
- Primary energy factors:
 0,629 ⇒ 0,663
- Emission reductions:
 - **\$2542 tCO₂**
- Return on investment (ROI): 93% (for period of 25 years)
- Annualized ROI: 2,66

Want to adapt our work to your DHS?

Want to invest in our progressive DHS?

Contact us using the information below!

- Nenad Todorović, technical director of the heating plant
- nedtod@gmail.com