

- Location: **Šabac, Serbia**
- Operating since: **1986**
- Ownership: **Municipality of Šabac**
- Grid: **22400 m** (owned by municipality)
- Customers: **8135**
- Connected load: **75005 kW**
- Boiler output: **68300 kW** (9 boilers)
- Type of DHS: **warm- & hot-water**
- Current fuel: **natural gas, wood chips**
- Potential renewables nearby:
wood chips, straw bales, waste water & underground water, geothermal energy



Source: <https://toplanasabac.rs/o-nama/>

Investment plans:

Modernization of DHS to 4G district heating with the participation of Heating plant and Civilian Initiatives, planned in the next 2 years.

For more information:

- www.keepwarmeurope.eu/country-pages/serbia
- <https://toplanasabac.rs/>

Significant (63 %) replacement of fossil fuel (gas) by new 10 MW boiler on wood chips, extended operation to include night shift



Primary work-steps and investment drivers:

- Company first planning phase *07/2020*
- Municipal Energy policy
- Contract with PIMO or/and KfW *08/2020*
- Public procurement and selection of bidder *12/2020*
- Construction phase, obtaining new customers, involvement of personnel, Test phase, training of staff *10/2023*

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
- Energy policy of the city of Sabac



Stakeholder involvement:

- Leading: **Municipality of Šabac, PIMO, Planning and construction companies**
- Other: **Technical suppliers**

Required resources:

Financial investment: **3.250.000 €**

Additional staff: **operators, maintenance & wood chips manipulation personnel,...**

Other: **fuel, maintenance, electricity... 1.460.774€**



Results:

- RES-share increase: **0,7% ⇒ 63%**
- RES/fossil heat production ratio: **63/37**
- Reduction of losses: **energy efficiency decreases slightly due to the replacement of gas boilers with biomass**
- Primary energy factors: **0,801 ⇒ 0,753**
- Emission reductions: **↓8885 tCO₂**
- Return on investment (ROI): **91% (for period of 25 years)**
- Annualized ROI: **2,62%**

Want to adapt our work to your DHS?

Want to invest in our progressive DHS?

Contact us using the information below!

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