

# DHS Samobor

(HEP Toplinarstvo Ltd)



- Location: **Samobor, Croatia**
- Operating since: **1986**
- Ownership: **national company**
- Grid: **3 081 m** (owned by the DHS)
- Customers: **1 263**
- Connected load: **9 525 kW**
- Boiler output: **16 600 kW** (6 boilers)
- Type of DHS: **hot-water**
- Current fuel: **Natural gas**
- Potential renewables nearby:  
**solar thermal energy**



*Source: own picture*

## Investment plans:

**Connection** into a single DHS and integration of solar thermal energy (optimization included)

## Timeline

End of 2020 – detailed feasibility study

Mid 2021 – engineering study

End of 2021 - investment

For more information:

<https://keepwarmeurope.eu/countries-in-focus/croatia/english/>

<http://www.hep.hr/toplinarstvo/>

# Integration of solar thermal



## Primary work-steps and investment drivers:

- First planning phase - Feasibility study
- Detailed planning (+external expertise)
- Negotiations with existing and prospective customers
- Obtaining permits & Tendering
- Construction – integration of solar energy

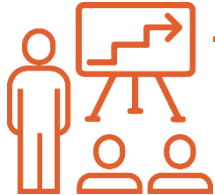
## Strategic background documents:

- OP (Operative Programme Competitiveness and Cohesion)
- SECAP Samobor



## Stakeholder involvement:

- Leading: HEP Toplinarstvo, REGEA, TVP Solar
- Other: City of Samobor, existing and prospective customers, financial institutions



## Required resources:

Financial investment:  
**3 750 000 kn (500 000 EUR)**  
Additional staff: -  
Other: **External experts**



## Results:

- Collector area:  
**3 000 m<sup>2</sup>**
- RES-share increase:  
**0% ⇒ 4%**
- RES/fossil heat production ratio: **1:25**
- Reduction of losses: **0%**  
Primary energy factors:  
**1.69 ⇒ 1.45**
- Emission reductions:  
**↓151 tCO<sub>2</sub> (-4.90%)**
- Payback period:  
**12.25 years**

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

**Contact us using the information below!**

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