

ENERGY CRISIS AND DISTRICT HEATING

VELENJE – THE CITY OF TOMORROW



THE KEY CHALLENGES

- New image of the city/region
- Construction of Highway through Velenje
- 5.000 new comparable and stable jobs
- 400 new apartments till 2027
- Transformation of The District Heating System
- Act on The Velenje Coal Mine Closure
- Act on The Restructuring of Savinja-Šalek Region
- Energy efficiency of buildings - Energy office Velenje





EUROPEAN UNION



EU MISSIONS

CLIMATE-NEUTRAL & SMART CITIES



VELENJE



#EUmissions #HorizonEU #MissionCities

Winner 2024 - Velenje



EUROPEAN
GREEN LEAF

An initiative of the
European Commission



- **CO2 COUPONS MAKE HEATING VERY EXPENSIVE**
- **MUNICIPALITY OF VELENJE COVERS THE DIFFERENCE TO MITIGATE THE EFFECTS OF PRICE INCREASES**
- **A DIFFICULT PERIOD IS AHEAD OF US - 100% PRICE INCREASES**
- **100% DEPENDENT ON COAL**



ACTION PLAN

TRANSFORMATION OF THE DISTRICT HEATING SYSTEM

The future of the district heating system in the Šaleška Valley lies in the green transformation and diversification of energy sources.

TODAY 2023

2023
The current state - 2G

CO₂ emissions 100 %
Dependable supply ✓
Price acceptability for users ✓



TOMORROW 2030

2030
The ultimate goal - 3G

CO₂ emissions 0 %
Dependable supply ✓
Price acceptability for users ✓



1. Phase

2022 – 2027

- Renewal and digitization of the district heating distribution network
- Updates and construction of new thermal stations.

GOAL

Lowering the temperature regime and operation from the current 120/75 °C to 85(110)/45 °C.

2. Phase

2023 - 2030

- Establishment of new units for heat production from RES and phased implementation.

3. Phase

2023 - 2030

- Reducing energy consumption of buildings is necessary to achieve the transition to a lower temperature regime.

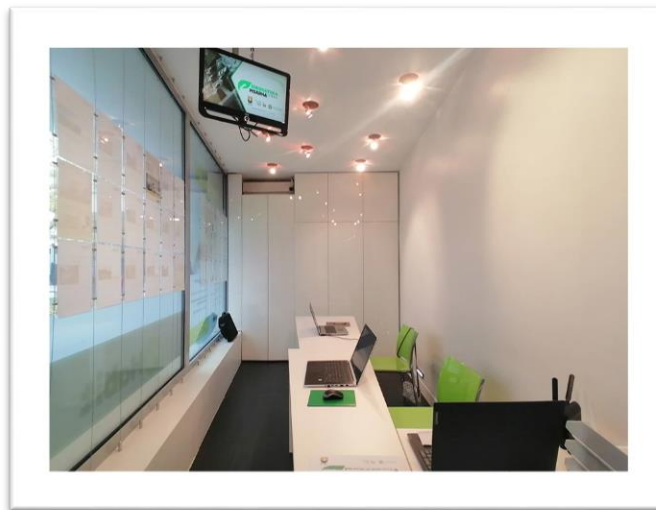
THE SOLUTIONS

- Loss reduction
- Subsidies to citizens – for the most vulnerable
- Energy office Velenje





ENERGETSKA PISARNA VELENJE



ENERGY OFFICE
VELENJE



MESTNA OBČINA
VELENJE

Komunalno
podjetje
Velenje



KSSENA

Free energy consultation

Information

A night view of a city, likely Vancouver, with lights from buildings and streets. The sky is a mix of dark blue and orange, suggesting a sunset or sunrise. The city is nestled in a valley, with mountains visible in the background. The foreground shows dark, silhouetted trees. A semi-transparent grey box is overlaid on the image, containing the text.

**NEW SOLUTIONS WILL BE THE MOST
OPTIMAL IN TERMS OF TECHNOLOGY,
PRICE, AND STABILITY.**