

# Energy strategy of the City of Žďár nad Sázavou

The current state and the perspective



**ŽĎÁR** NAD SÁZAVOU



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# Briefly about Žďár nad Sázavou



Inhabitants: 20 000

Budget: € 25 mio.

Energy consumption:  
13 473 MWh/year



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# The energy review of Žďár n. S.

- The heating consumption is relatively low
- The electric energy consumption can be reduced
- The district heating system owned by the City
- The energy management system certified by ISO 50001
- Low portion of RES
- The energy management covers water management as well



# EnMS certified by ISO 50 001

- The EnMS in Žďár covers:
  - 211 electric delivery points (43 public lighting)
  - 62 heat delivery points
  - 19 gas delivery points
  - 97 water meters
- Energy consumption and expenditures are recorded in database
- The data are used for energy stock purchasing
- EnMS was proved by certification body
- Certifikate was revealed in March 2023



# EnMS certified by ISO 50 001

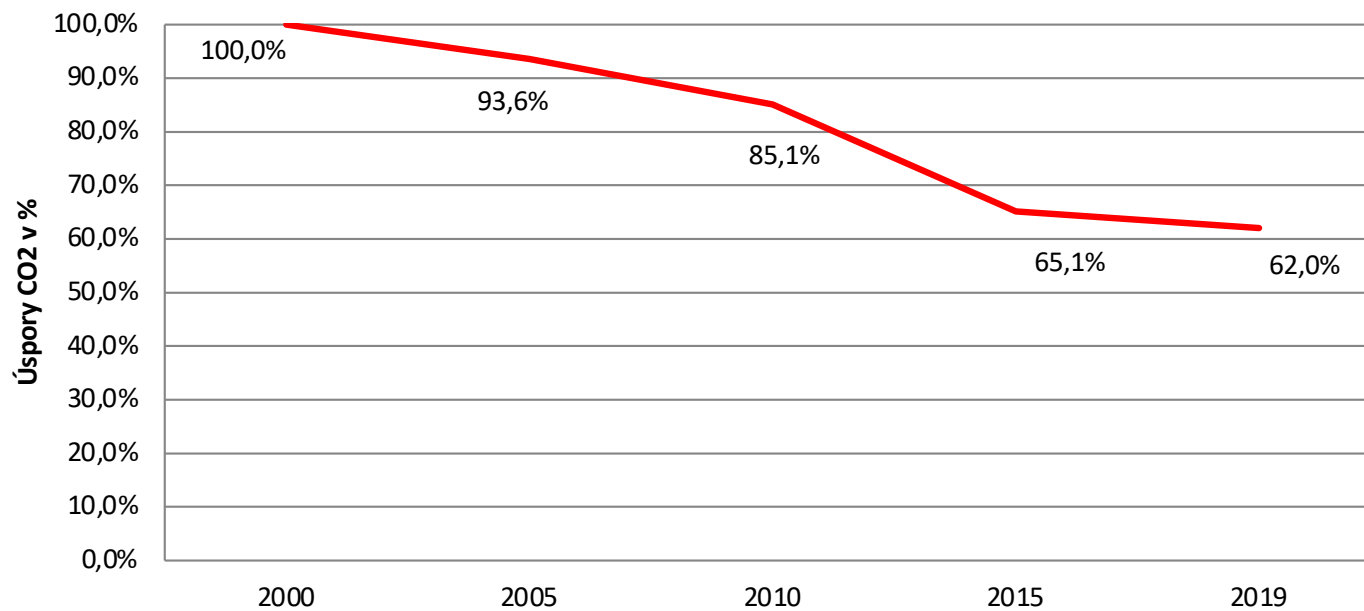


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# SECAP: CO<sub>2</sub> reduction

year	2000	2005	2010	2015	2019	2030
GWh	223	217	198	185	183	~ 155
CO <sub>2</sub> [t]	107 681	100 766	91 644	70 135	66 804	~ 56 816

Pokles emisí CO<sub>2</sub> vůči roku 2000



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# Finished and prepared energy projects



The total area of municipal buildings roofs exceeds 45 000 m<sup>2</sup>  
How to use this potential?

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# Finished and prepared energy projects



Biosolar green roof combines PV panels and low plants;  
First instalation in the Czech-Moratian Highland  
Coopeeration with the university reseach centre UCEEB

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# Finished and prepared energy projects



Hybrid collectors combine PV panels and solar heating surface;  
92 collectors will be installed on the swimming pool roof during 2024

