

Ecological Village Hostětín

Green inspiration from the White Carpathians

- *supported by*
- Visegrad Fund
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Hostětín

Village in the Zlín Region (White Carpathians)

217 inhabitants

A number of environmental and well-functioning projects since 1995

Using local resources and renewable energy



Energy Globe Award

More than 800 projects from all over the world participate each year

National Award Won by the municipality of Hostětín – 2007 and 2020

Annual **award for sustainable projects** conserving natural resources or using renewable energy



Other awards of Hostětín

2009 - Czech Solar Award (Česká solární cena)

2009 - Village of the Year (Vesnice roku)

2012 - Climate Star (International award for 19 EU municipalities)

2023 - Green Municipality of the Year (Zelená obec roku)



Biomass Heating Plant

Built in 2000

Burns wooden chips - **waste from the surrounding forests**

Heat **used by 80% of households** in Hostětín

Saves approximately **1,100 tonnes of CO₂** emissions every year

Produces about **3500 GJ** of heat per season

Energy self-sufficiency and independence: no need to pay for coal or gas



Biomass Heating Plant



Environmentally friendly public lighting

Renovated in 2006

Fully shielded lamps with high efficiency sodium lamps designed to shine only on pavements and roads to reduce light pollution

Reduces electricity consumption by at least a quarter

All lamps were **donated by Philips Lighting company**





Passive House Veronica

The first passive building in the Czech Republic (2006)

Passive building parametres:

- Thick layer of thermal insulation
- Airtightness
- Heat recovery ventilation system
- Annual energy consumption less than 15 kWh/m², 7-10 times less than in conventional buildings

Passive House Veronica - Technologies used

- Mineral wool and straw insulation
- Windows with low heat transfer
- Ventilation with heat recovery from outgoing air
- Solar water heating
- Heating from the municipal biomass heating plant (the house can work without a conventional heating system due to the heat that the house receives passively from the sun)
- Rainwater harvesting
- Green roof
- Ecological building materials (plaster made of clay and natural bricks)



Photovoltaic power stations

Since 1997

Solar pannels on 9 houses

Large-scale pannel on the Veronica Centre
and Organic Cider House

Power plant next to the heating plant and
also on several family houses

Saves about **100 tonnes of CO2** per year



Root water-cleaning plant

Artificial wetland with common wetland plants

Water purification through bacteria on plant roots and natural biological processes that break down organic waste



Educational Natural Garden and Orchard

Involves the public in the process of natural gardening, saving old fruit varieties and restoring original orchards in the countryside

Biodiversity support - lizard house, bird nesting boxes and insect houses

Bee keeping - several beehives

Certified as a "Educational Natural Garden" in 2013



Resources:

<https://www.veronica.cz/ekoporadna>

<https://hostetin.veronica.cz>

<https://zlin.rozhlas.cz>

<http://www.energyglobe.info/>

