

BEST PRACTICE IN CZECH REPUBLIC – ENERGY EFFICIENT CITIES

BASIC INFORMATION

Title of the Best Practice

PV system in Uherské Hradiště hospital

Energy efficiency measures implemented in the building:

Reducing electricity demand and decreasing the electricity capacity:
decreasing the electricity demand and reducing peaks of the consumption curve

Location:

City: Uherske Hradiste

Region: Zlín Region

Country: Czech Republic

<https://goo.gl/maps/fvkvTiWR5munWFKz5>

Partners involved:

Owner and Operator

Uherskohradišťská nemocnice a.s.
J. E. Purkyně 365
686 68 Uherské Hradiště
572 529 111

Planner and Architect

Energ-Servis a.s.,
Příkop 843/4
602 00 Brno

Building technology planning

Tespora profi s.r.o.
Na Příkopě 814
755 01 Vsetín
www.tespora.cz

Implementation year: 2019

Photo:



Source: Energy agency of the Zlín region

SYSTEM CHARACTERISTICS

Brief Description:

Two PV systems were installed on two buildings with overall output of 99,99 kW. First one has 40,59 kW installed power, which means 123 pcs of 330kWp panels, and second has 59,4 kW which means 180 pcs of 330kWp panels.

Supposed energy production is calculated on 97,835 MWh/year.

The PV system has more benefits like improving the consumption curve in the summer and decreasing the electricity peaks in the summer caused by the air conditions.

Thermal reconstruction of the building envelope

-

Windows and doors

-

Building technology

Cooling: -

Ventilation system: -

Heat technology: -

PV system: 99,9 kW installed

Energy management in this building has been implemented and carried out by Energy Agency of the Zlín Region since 2012.

FINANCIAL SOURCES AND FINANCING DETAILS

Total investment value:

170 000 €

Sources of financing:

This project was co-financed by the Operational Programme Environment of the Czech Republic with subsidy 68 000 €; and by the Zlín Region.

Electricity savings (MWh/year):

97,835 MWh yearly production

Or fuel savings (kg or m3 or kWh or GJ):

-

Cost savings (EUR/year):

6 600 € per year

PROJECT IMPLEMENTATION BENEFITS

Project did not affect visual appearance of the whole building.

ADDITIONAL INFORMATION

Energy Agency of the Zlín Region is continuously monitoring the consumption of the natural gas, electricity and water consumption of the buildings related to this project.

Moreover, Energy Agency of the Zlín Region is able to be collecting actual data from the PV system.

On the picture below you can see the electricity consumption the in the hospital since 2012:

