


BEST PRACTICES AND SOLUTIONS FOR ENERGY TRANSITION	
TYPE OF BEST PRACTICE:	TECHNICAL SOLUTIONS
TITLE:	The conceptual approach to the energy efficiency in large hospital area in the Zlín Region with the support from OP Environment.
Keywords: <i>Please select from dropdown lists (cells B5-B9), up to 5 representative keywords that best describe the features of the best practice.</i>	Energy Efficiency in buildings Renewable energy EU funding
Country: <i>Please select from dropdown list (cell B10), the country where the best practice was implemented. If in more than one countries, select "multiple countries" and describe in cell B11.</i>	Czech Republic
Region / Municipality / location: <i>Please provide further details on the territory where the best practice was implemented, as applicable (e.g. Region and/or Municipality and/or location of individual building).</i>	Zlín Region
Short description: <i>(Up to 150 characters)</i>	Several consequent and interlinked investment projects on RES and energy efficiency leading to a considerable decrease of the energy demand in a large hospital area in Uherské Hradiště.
Long description: <i>(Up to 1000 characters)</i> <i>Describe a best practice in the field of Technical solutions [e.g. innovative technical tools/methodologies/solutions developed to increase energy-efficiency in public buildings or sustainable mobility; case studies of successful implementation of such solutions in actual projects; etc.]</i>	<p>Hospital in Uherské Hradiště is one of four hospitals belonging to the Zlín Region. The individual pavilions of the hospital were in a very poor condition from the energy point of view: high heat consumption, overheating in summer etc. The heat and hot water sources in the central boiler room were old and inefficient and all this led to large heat losses.</p> <p>Between 2012 and 2020 Energy Agency of the Zlín Region initiated, developed, and administered a set of several consequent investment projects on RES and energy efficiency leading to a considerable decrease of the energy demand in a large hospital area in Uherské Hradiště with the support from OP Environment Among measures implemented in this period belong:</p> <ul style="list-style-type: none"> - Reconstruction of the central boiler room and area heat distribution, including the installation of 2 pieces of solar panels for the preparation of hot water, - Complex insulation of 6 hospital pavilions, - Complex heat insulation of 2 hostels for hospital staff, - Photovoltaic power plants on the 3 central buildings roofs with combined installed power 219 kWp. <p>Investments undertaken significantly reduced both heating and operational costs of the hospital and thus saved public funds spent on operations in health care. The installation of PV panels increased the hospital's self-sufficiency and reduced electricity consumption from non-renewable sources. Thanks to the insulation and installation of air conditioning with recuperation, the internal microclimate of the building was improved.</p> <p>Methodical management of energy management is provided by the Energy agency of the Zlín Region because only a proper implementation of energy management ensures all measures being fully operational.</p>
Project full title / acronym: <i>The title of the Best Practice is inserted in cell B4. Please only fill in this field (cell B19) if the Best Practice was implemented as part of a "Project". The "Project" can be an EU project or a local / national initiative, a private initiative etc.</i>	
Funding Programme: <i>(If applicable)</i>	
Project website: <i>(If applicable)</i>	
Relevant images: <i>Photos, project logo etc.</i>	
Progress status - Start date:	2012
End date:	2019
<i>If relevant, please include any further information as regards progress of the case study.</i>	
Key benefits / outcomes: <i>Describe key benefits - key outputs from this best practice. Where available and relevant, use users' testimonies.</i>	<ul style="list-style-type: none"> • Annual total heat savings for all implemented measures combined are 44,828.59 GJ and annual CO2 reductions achieved are 2,999.44 tons. • Total implementation costs combined were 5.486.000 EUR with the contribution from the OP Environment in amount 1.878.000 EUR . • A pleasant environment is created in the hospital contributing to the well-being of all users, which is so important in their treatment process.
References: <i>Provide relevant links or documentation (reports / photos / videos etc.) that relate to the described case study (Note: please only provide where it is acceptable to make the information publicly available online.</i>	(1) FEDARENE https://fedarene.org/best-practice/conceptual-approach-to-energy-efficiency-in-large-hospital-area-in-the-zlin-region/