

Energy Management in the Zlín Region



(Energy Agency of the Zlín Region)

08/09/2010

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Creation of energy agency in the Zlin region to promote Renewable energy sources utilization and energy efficiency

Localization



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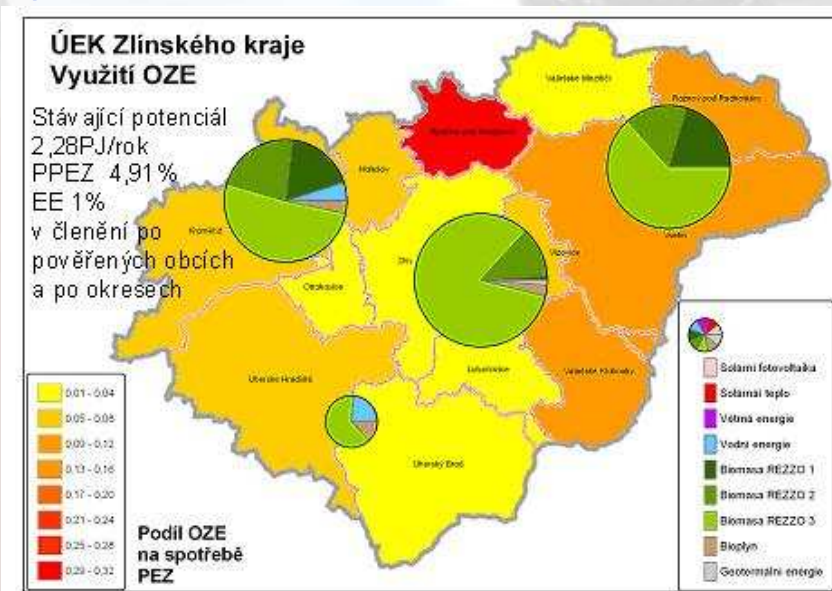
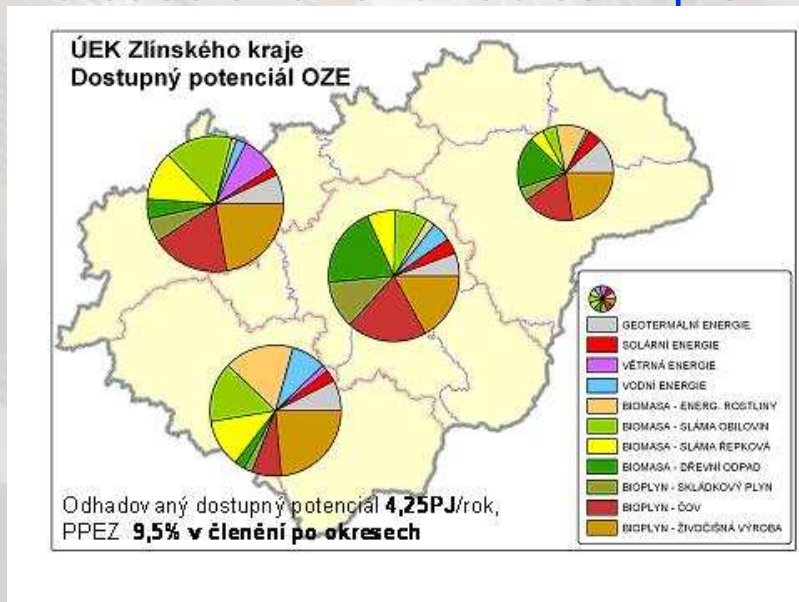
Main objectives

- Energy planning of the region
- Solar systems promotion
- Promotion of biomass utilization
- Low – energetic housing and building promotion
- RES and energy efficiency projects identification and development
- Establishment and promotion of energy management
- Support to education of students, architects, designers, building administrators and students



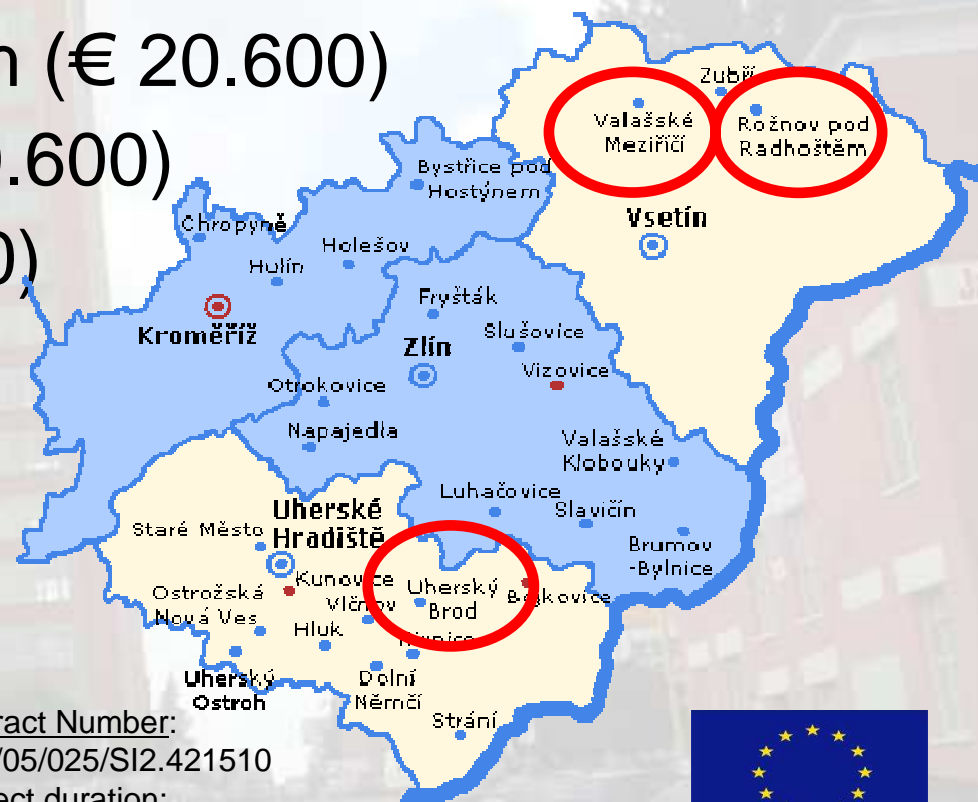
Creation of Zlín Regional Energy Efficiency and Renewable energy 5-year Action/Implementation Plan

- to detail the already existing Regional Energy Plan in the specified priorities and set short-term quantified objectives in energy efficiency increase and renewables implementation.



Support to municipalities in developing of their own energy plans

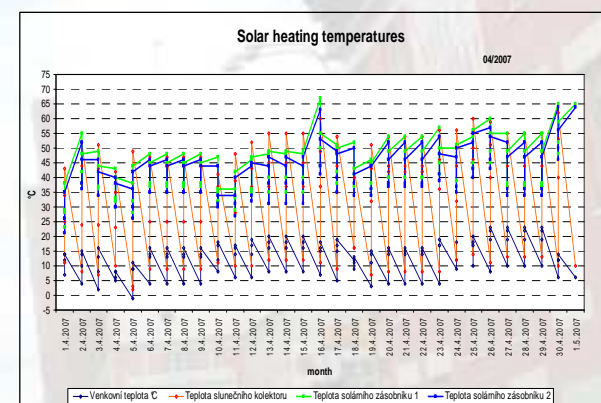
- New Energy plans developed in 3 towns of the Zlín Region
- Initiation, consultancy, workshops, coordination, finance raising
- Rožnov pod Radhoštěm (€ 20.600)
- Valašské Meziříčí (€ 20.600)
- Uherský Brod (€ 16.700)



Seminars

- 9 training seminars were organised for the staff and employees in facilities where the projects focused on solar systems were realized
- Staff trained in optimisation of solar systems operation and energy management

- Gymnázium a SOŠ Staré Město
- SOŠ Josefa Sousedíka Vsetín
- Gymnázium Zlín
- SOŠT Uherské Hradiště
- Gymnázium Valašské Klobouky
- SŠIEŘ Rožnov pod Radhoštěm
- SPŠN Bystřice pod Hostýnem
- SZŠ Zlín
- DD Nezdenice



Projects

➤ Project identification, initiation, proposals procession and submission

- 2 proposals for investment projects on solar systems utilization in conjunction with improvement of buildings heat insulation approved to the Programme of CR-Slovakia cooperation 2007 – 2013.



- **On Czech and Slovak side submitted altogether € 553 934**



- Providing of large-scale consultancy on solar system utilization in all kinds of buildings
- Promotion of best practices from the Zlín region

Projects

➤ Project identification, initiation, proposals procession and submission

- Investment project on **reconstruction of CHS in Brumov Bylnice town and biomass utilization** was submitted and approved to the Programme of CR-Slovakia cooperation 2007 – 2013; 3 MW output in biomass installed
- Organising of workshops among municipality representatives and technology and biomass suppliers



**Annual energy production converted
from fossil fuels to biomass:
6.000 MWh**

Seminars

- Organising of seminars focused on refurbishment of existing buildings into the low-energetic standards
 - Otrokovice **19.3.2008**
 - Bystřice pod Hostýnem **20.3.2008**
 - Slušovice **8.4.2009**



Projects

- 41 successful projects focused on refurbishment of existing buildings into the low-energetic standards were assisted and developed in total amount of **322.287.456 CZK (€ 11.940.000)**
- **22 projects on refurbishment of apartment houses assisted in total value of 130.600.000 CZK (€ 4.837.000) - heat insulation, windows exchange and roof reconstruction)**



- EAZK initiated and developed another energy efficiency and RES utilization focused projects submitted to the programmes:

- **ECO-ENERGY (Ministry of Industry and Trade)**

- 3 energy efficiency projects
 - Utilization of waste heat and heating system reconstruction in Brewery Janáček, Uherský Brod
 - Reconstruction of boiler room and heating system in Jelenovska Hotel, Valašské Klobouky
 - Heat insulation of administrative building and waste heat utilization for heating and cooling in Brewery Janáček
 - Total investment raised – 37.000.000 CZK (€1.370.000)



- EAZK initiated and developed another energy efficiency and RES utilization focused projects submitted to the programmes:

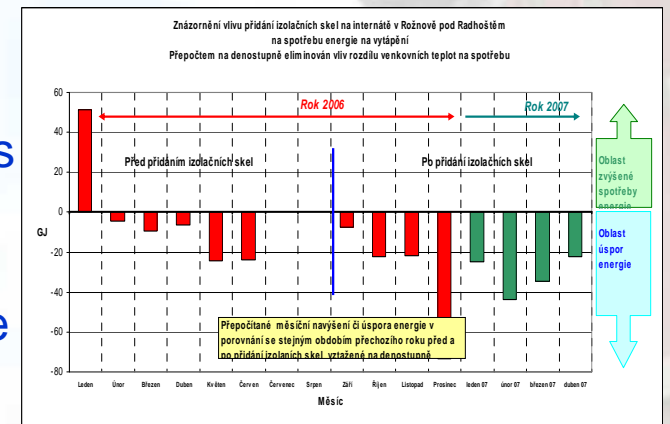
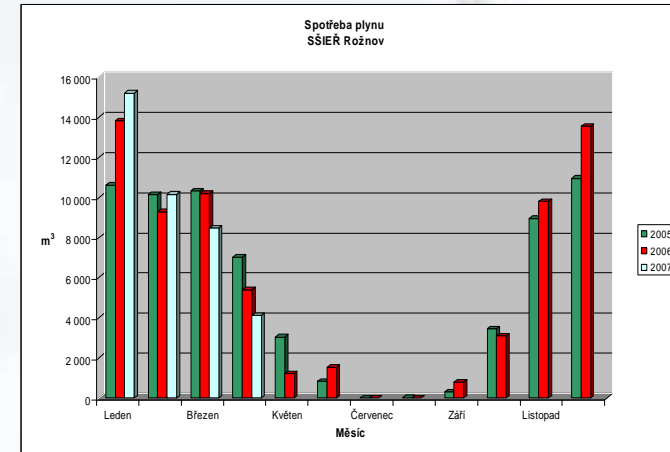
- **EAFRD (Ministry of Agriculture)**

- 7 energy efficiency projects
 - Reconstruction of multifunctional facility in Ostrata village
 - Refurbishment of kindergarten in Trnava village
 - Reconstruction of public lighting system in Komňa village
 - Refurbishment of sports facility in Komňa village
 - Refurbishment of primary school and kindergarten in Hradčovice village
 - Refurbishment of kindergarten in Velký Ořechov village
 - Reconstruction of municipal office in Svárov village
- Total investment raised – 21.626.232 CZK (€801.000)

- EAZK initiated and developed another energy efficiency and RES utilization focused projects submitted to the programmes:
- **ENVIRONMENT** (Ministry of the Environment)
 - 3 energy efficiency projects submitted aimed on:
 - Boiler room reconstruction
 - Reconstruction of hot water pipelines and heat pipelines
 - Realization of heat insulation
 - Total investment raised – 174.958.402 CZK (€6.480.000)
 - Bata's hospital in Zlín
 - Hospital in Uherské Hradiště
 - Municipality of Mysločovice

Established monitoring system

- 116 facilities included in this monitoring system (schools and other organizations established by the Zlín region)
- Monitoring of electricity, gas, heat and water consumption
- Monthly evaluation of data obtained
- Identification of potential savings by both operational changes and investment suggestions
- At the 7 objects with history of monitoring longer than 2 year considerable savings up to 8 % were recorded



Public tender for electricity supplier

- EAZK managed the public tender for general electricity supplier into the 141 organizations established by the Zlín region
- Collecting data and analysis of present energy consumption
- Realization of the public tender and selection of the best proposal
- Annual savings on energy – 2.222.760 CZK (approx. € 82.500)



Seminars

- 9 seminars related to energy conservation and environment protection for students and users of services in the Zlin region facilities
- Gymnázium a SOŠ **Staré Město** (14.3.07)
- SOŠ Josefa Sousedíka **Vsetín** (9.5.07)
- Gymnázium **Zlín** (22.11.06)
- SOŠT **Uherské Hradiště** (8.11.06)
- Gymnázium **Valašské Klobouky** (31.10.06)
- SŠIEŘ **Rožnov pod Radhoštěm** (23.10.06)
- SPŠN **Bystřice pod Hostýnem** (20.10.06)
- SZŠ **Zlín** (17.10.06)
- DD **Nezdenice** (24.10.06)



„CO2 league“

- Competition for pupils and students of primary and secondary schools of the Zlín region
- EAZK took a patronage over the organization of the competition in 2008 & 2009
- Leading the young generation to the respect for environment and nature, and increase its general knowledge about importance of energy efficiency and RES utilization
- EAZK creates the methodology, controls the progression of the competition and processes the final evaluation



Another seminars organized by EAZK for specific target groups

- Public launch, introduction of EAZK to general public, Zlín (4.10.06)
- Seminars focused on effective ways of energy utilization in homes, office buildings, services etc. Zlín (7.12.06, 22.5.07)
- Regional IEE Info Day (8.6.07)
- Training seminars for designers and architects, Zlín (1.9.07)
- Seminars for SMEs and municipalities, Bystřice pod Host. (24.4.08), Zlín (22.7.08), Uherský Brod (9.12.08)
- Seminars for building administrators and owners, Zlín (13.6.07, 29.10.08)



Dissemination of EAZK activities (most important)

- 18.1.07 and 30.1.08 – Seminars for energy specialists, Valašské Klobouky
- 31. 5. 2007 – Czech – French conference „Energy efficiency by RES utilization“, Prague
- 31.10.2007 - Conference „2007–2013 ...chance for the Zlín Region“, Zlín
- 29.7.2008 - International seminar „RES utilization“, Trenčianské Teplice
- 11.3.2008 - Seminar for Chamber of commerce, Uherské Hradiště
- 22.4.2008 - Republic conference „RES for countryside“, Hradec Králové
- 6.11.2008 - International conference „Energy-Ecology-Economy“, Bratislava
- 11.2.2009 – EUSEW 2009, ManagEnergy Plenary Event: New Opportunities for Local Energy Actors, Brussels



Consortium meetings

- Experience exchange
- International project management
- Coordination of common activities
- ✓ **7. – 8. 6. 2007 – Zlín, Czech Republic**
- ✓ **10. – 13. 6. 2008 – Gijón, Spain**
- ✓ **24. – 27. 1. 2009 – Mantova, Italy**



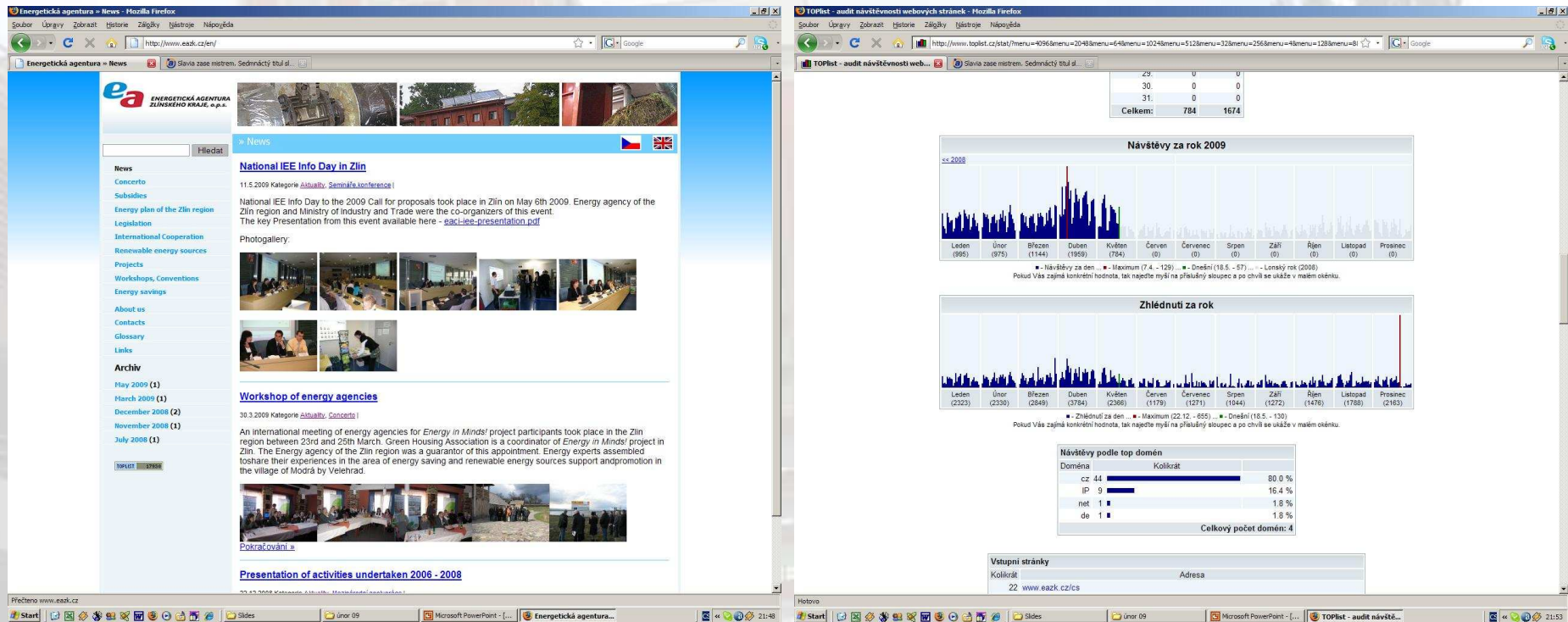
Training courses (most important)

- Visit to biomass energy heat/plant, Güssing, Austria, November 2006, 2007
- Series of seminars on biomass utilization, low-energetic construction and sustainable development „Green for the Zlín Region“, Autumn 2007
- International solar camp, Bezedek, Hungary, March 2008
- Educational days in Germany focused on energy planning and sustainable development of the regions, December 2008



www.eazk.cz

- over 7.000 per year
- over 17.000 visitors since 2006



The screenshot shows two browser windows. The left window displays the website's news section with a sidebar menu and a main article titled 'National IEE Info Day in Zlín'. The right window shows a 'TOPlist - audit návštěvnosti webových stránek' (Website Traffic Audit) with a bar chart for 'Návštěvy za rok 2009' (Visits for 2009) and 'Zhlédnutí za rok' (Views for year). Below the charts is a table for 'Návštěvy podle top domén' (Visits by top domains).

Měsíc	Návštěvy
Leden	995
Únor	975
Březen	1144
Duben	1959
Květen	784
Červen	0
Červenec	0
Srpen	0
Září	0
Říjen	0
Listopad	0
Prosinec	0
Celkem	784

Měsíc	Zhlédnutí
Leden	2323
Únor	2330
Březen	2849
Duben	3764
Květen	2368
Červen	1179
Červenec	1271
Srpen	1044
Září	1272
Říjen	1476
Listopad	1788
Prosinec	2183

Doména	Kolikrát	Podíl (%)
cz .44		80.0 %
ip .9		16.4 %
net .1		1.8 %
de .1		1.8 %
Celkový počet domén:	4	

11/05/2009

Contract Number:
EIE/TYPE2/05/025/SI2.421510
Project duration:
From 12.1.2007 To 12.1.2010

