



CENTRAL ENVIRONMENTAL AND ENERGY MANAGEMENT AS A KIT FOR SURVIVAL

This project is implemented through
the Central Europe Programme co-financed by the ERDF



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Territorial Strategy

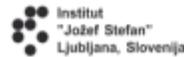
Czech Republic – South Moravian Region

Institute of Social Innovations

Lead Partner



Partners





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Czech Republic

The Ministry of Industry and Trade updated The National Energy Conception in 2013, that fills a long-term vision, sets the strategic energy objectives of Czech Republic and defines strategic energy priorities of the Czech Republic with a view of about 30 years.

Current energy consumption in the Czech Republic is covered by more than 50% of domestic primary energy sources. Indicator energy import dependence is among the lowest in the EU. This is one of the strengths of the domestic energy industry. Czech Republic is fully self-sufficient in the production of electricity and heat.

The share of gross production of energy from renewable sources in the total heat production accounts for about 8%. The National Energy Conception is in line with the National Action Plan of the Czech Republic for renewable energy and energy trying to make it over the horizon for the full exploitation of the potential of biomass provided an action plan.

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South Moravian Region

- Is virtually fully supplied with gas
- Has only a very limited supply of primary fuels (oil, natural gas, lignite)
- Has no significant source of electrical energy.

South Moravian region was supplied with gas according to the data of 2010 from 98.9%.

Cost of heating gas has led many households to install solid fuel boilers.

Estimation of small sources that use fossil fuel is 20-30% of the total REZZO third

The solution to these sources using fossil fuels would be burning biomass in quality technological equipment to reduce emissions or the use of other renewable sources.

Action Plan for Energy is one of the tools of project implementation of the updated Regional Energy Conception of the South Moravian Region.

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The Action Plan of South Moravian Region aims to:

- Improve the environment for citizens and especially the reduction of emissions to the atmosphere
- Increase the energy independence of the region, in terms of the development of renewable sources (solar, biomass) at the expense of fossil fuels,
- Increase the capacity of autonomous supply of energy during emergencies, particularly natural disasters, terrorist attacks, accidents.

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The Action Plan of South Moravian Region

Action plan significantly contributes to the reduction of distrust and the fear reduction of risk investments into new technologies by proposing programs and criteria for future projects.

These are evaluated not only in terms of investment and operating costs, but also in terms of externalities - ie. positive and negative benefits for the local community (residents county or municipality as a whole).

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South Moravian Region

Based on forecasts approved by the National Energy Conception and the situation in the EU can be stated that the total energy consumption in the region will rise

The increase of consumption cannot be compensated only by increased imports. It is therefore necessary within the meaning of the basic theses of SEK make more efficient use of all forms of energy and fuels in customer sectors. The savings that will be achieved will reduce expected rise trend.

The expected increased demand is to be solved in particular:

- using all available and economically justified savings
- increased use of renewable energy.

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South Moravian Region

Energy demand in the region will respond primarily to how they achieve the objectives of strategic documents of the South Moravian Region, such as:

- Development strategy of the South Moravian Region
- Waste Management Plan
- Plan for the Development of Agriculture

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South Moravian Region

Source	Extra large and large sources of pollution	Medium sources of pollution	Small sources of pollution
Designation	REZZO 1	REZZO 2	REZZO 3
Content	stationary fuel combustion with a heat power greater than 5 MW and equipment especially important technological processes	stationary fuel combustion with a heat power from 0.2 to 5 MW, equipment of important technological processes, coal mines and areas of burning, evaporating or escaping of pollutants	stationary fuel combustion with a heat output less than 0.2 MW, equipment of technological processes that do not belong to the category of large and medium sources, areas where work which may cause air pollution is carried out, landfills fuel, raw materials, products and wastes and trapped air pollutants and other facilities and activities polluting the atmosphere

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South Moravian Region

The biggest problem are small sources. Large and medium sources have already solved most problems, so it is necessary to focus on small sources (ie. REZZO 3 - mainly households and micro enterprises).

Most of the small businesses do not unfortunately interested in participating in the project. Although fill in a questionnaire is easy and despite the possibility of expert help. Energy savings and the cost-saving, environmental protection and Corporate Social Responsibility is not considered as a sufficient reason.

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South Moravian Region

In terms of immissions and air quality small sources contributes to exceedances of the PM10 24-hour concentration and the exceedances of the target air pollution limit for average annual concentration of benzo(a)pyrene.

Missing general awareness about the harmful effects of certain types of fuel combustion or burning of waste in local heating, which are the source of these toxic substances. The only possible way how to impress the operators of small sources is education given by experts in the field of air protection. Changing the way of thinking of man and the corresponding habits and customs in this climate is a challenging and long-term task, but the results are then permanent. You cannot use disposable training, lobbying and pressure, etc...

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The main focus of the Action Plan:

- Support of energy efficiency and increase in the share of renewable energy
- Education and Awareness Program
- Savings program

Description of the initial situation

Energy consumption in the region is about the level of energy consumption of the country, which means that it is 2-3 times higher than in developed countries. Due to the rising prices of oil and natural gas returns energy consumption for coal, brown moreover, the settlements are burned fuel deteriorating air quality. There are not used local renewable energy sources or opportunities converting agriculture to energy production

Objectives of the actions

- Reduce energy consumption in the production of goods and services
- Increase the use of local renewable energy sources
- Reduce energy consumption in public buildings

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Education and Awareness Program

Description of the initial situation

The region as an autonomous institution has a lack of tools for the implementation of JMK TEC conclusions and action plan. The program is an important tool for the creation and implementation of projects. The main objective is to understand the other programs, increasing environmental and economic feeling of the population and stakeholders in the energy sector.

Objectives of the program

- Increase the motivation of citizens and other entities to implement energy-saving measures and the use of renewable energy potential.
- Provide information on the projects defined in this plan and assumptions (conditions) of their implementation

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Education and Awareness Program

South Moravian Region as an autonomous entity does not have many tools for the implementation of REC SMR conclusions and action plan. Therefore, this program is an important tool for the creation and implementation of projects. The main objective is to understand the other programs and increase ecological and economic feeling of the population and stakeholders in the energy sector. An integral part of providing information on energy saving and environmental friendly energy supply systems.

The program is focused on the organization of different types of educational events such as seminars and workshops, support of environmental organizations and environmental education in schools - focus on energy. It has a particular character and motivation to be effective, must be directed towards to all social spectrum. At the same time it is necessary to use the tools which are currently available to all age and social groups (eg. Newspapers, local TV, local newsletters, leaflets, etc..).

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Savings program

Description of the initial situation

The reason for high specific energy consumption for heating compared to some EU countries is the fact that a large number of objects have special thermal insulation. There is therefore significant potential for energy savings, if the thermal insulation is retrospectively under repair. This is a reduction of outer walls heat losses of buildings.

Construction of low-energy and passive houses has had rare character.

Objectives of the program

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