

Country Close-Up

CZECH REPUBLIC

The Covenant at a glance

The Covenant of Mayors is the mainstream European movement involving local and regional authorities voluntarily committed to increasing **energy efficiency** and the use of **renewable energy** sources on their territories. By their commitment, Covenant Signatories aim to meet and exceed the European Union **20% CO₂ emissions reduction target by 2020**.

What motivates Mayors to join?

"The reason for joining the Covenant of Mayors was basically the need for complex solutions to the energy management issue, primarily the potential for energy savings as well as responsible and meaningful investment funds from public budgets. The adherence to the Covenant of Mayors was for the city a driving engine for materialising theoretical projects. The position of city energy manager was established and the registry of public property and energy demand analysis was initiated."

Libor Halas, Deputy Mayor of Jeseník



"The City of Ostrava has environmental quality and in particular air quality as priorities. Moreover, the city is trying to find out systemic/integrated solutions by engaging all the stakeholders. Joining the Covenant of Mayors initiative in November 2011 was well in line with our priorities."

Petr Kajnar, Mayor of the City of Ostrava

Covenant in figures [last updated July 2013]

7 Signatories

337,000 inhabitants

2 Sustainable Energy Action Plans

Full list of Signatories available at www.eumayors.eu (> About)



1. Energy policy

Targets

Target year	GHG reduction (1990 levels)	Energy efficiency	Renewable energy
2020	20%	20%	13% in gross electricity consumption 10 % biofuels in transport
2040	N/A	N/A	15 % electricity from renewables

Energy policies in the spotlight

State Energy Policy

State Energy Policy aims at ensuring **reliable, safe and environmentally friendly energy supply** for the needs of the population and the economy of the Czech Republic as well as **competitive and affordable energy prices** under standard conditions. Furthermore, the concept aims at guaranteeing uninterrupted power supply in emergency situations especially for the important infrastructure components of the state and those serving the needs of the population. The use of renewable energy sources for electricity generation is set at 15% by 2040.

National Energy Efficiency Action Plan

This plan was prepared in accordance with the requirements stated in the EU Directive 2006/32/EC on energy end-use efficiency and energy services. According to this directive, EU member-states shall submit their national energy efficiency action plans (NEEAPs) three times in the period 2007-2014. The aim is to reduce the average annual electricity consumption from the years 2002 to 2006 by 9% in the period between 2008 and 2016. Examples of energy savings measures are: setting a minimum efficiency on electricity and heat supply; promotion of combined heat and power production; increase energy efficiency in the distribution network of electricity and heat. Concretely, these measures are divided into six categories, namely: measures for **households** (e.g. financial subsidies for refurbishment in national programmes “The Green Savings Programme” and “Panel”, energy labelling of households’ appliances, savings in lighting); measures in the **tertiary sector** and in the **industry sector** (e.g. promotion of new energy efficient technologies, savings in lighting, bulk purchase of office equipment; financial subsidy via the Operational Programme for Industry and Enterprise” and “Operational Programme Enterprise and Innovation”); measures in the **public sector** (e.g. energy efficiency and renewable energy via the Operational Programme for the Environment); measures in the **transport sector** (e.g. penetration of low emission vehicles on the market, modernization of public transport vehicles, promotion of combined means of transport); measures within the **agriculture sector** (e.g. promotion of energy audits, heat recovery in buildings, use of renewable energy sources, including biofuels); and **horizontal measures** (e.g. establishment of an Energy Institute for education on energy-related topics).



National Renewable Energy Action Plan

The National Renewable Energy Action Plan defines **renewable energy targets** by 2020, namely a **13.5%** share from renewable energy sources in gross final energy consumption and a **10.8%** share from renewable energy sources in gross final energy consumption in transport. This plan is formulated in accordance with the State Energy Policy and has fulfilled and exceeded the required objectives of the Czech Republic in the use of energy from renewable sources by 2020. It is also in line with the Act No.165/2012 on promoted energy sources and on amendments to other laws.

Act on energy management

Act No. 406/2000 Coll. on energy management (as amended) was firstly adopted in 2000 and defines:

- Conditions for preparing the State and regional energy policies;
- Efficiency of energy use;
- Energy intensity of buildings;
- Energy labels (appliances) and Ecodesign;
- Energy audits and energy auditors;
- Administrative offences and others.

Implementation of most EU energy efficiency legislation is executed by means of this Act.

FURTHER READING

State Energy Policy (CZ): <http://www.mpo.cz/assets/cz/2012/11/ASEK.pdf>

National Renewable Energy Action Plan (EN/CZ): http://ec.europa.eu/energy/renewables/action_plan_en.htm | <http://www.mpo.cz/assets/cz/2012/11/NAP.pdf>

Act No. 165 on promoted energy sources and on ammendment to some laws (EN):
http://www.eru.cz/user_data/files/legislativa/english/acts/165_2012_AJ.pdf

National Energy Efficiency Action Plan (EN): <http://www.buildup.eu/publications/20803>

Presentation of the state of implementation of renewable energy and energy efficiency policies (EN):
http://www.eufores.org/fileadmin/eufores/Projects/EEW/GEBAUER_Workshop_Czech_Senate_Feb_2012.pdf

Other relevant energy policies

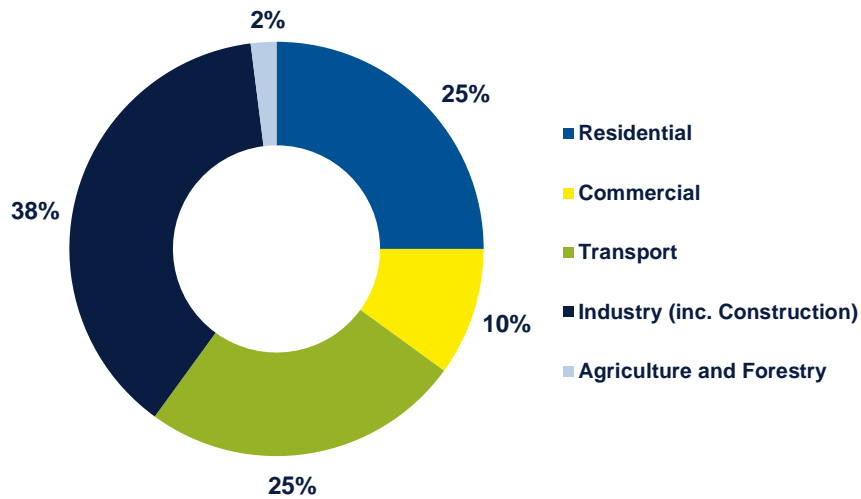
Name	Field	Purpose
<u>National Programme to Abate Climate Change Impacts in the Czech Republic</u>	Climate protection	The document was elaborated in 2007. The main purposes are to define and describe the crucial issues and impacts of climate change on the Czech Republic environment and to propose measures for adaptation and mitigation.



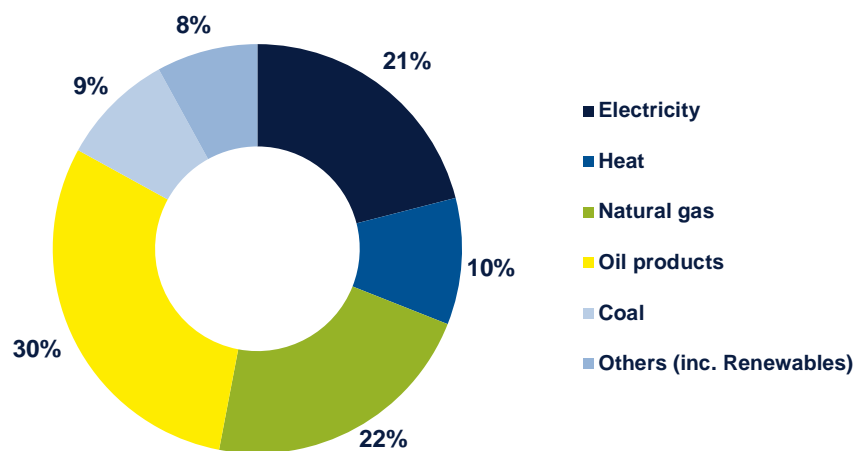
2. National energy profile

Key Indicators for 2010	
Greenhouse gas emissions per capita	12.71 t CO ₂ /capita
Final energy consumption per capita	34.20 MWh/capita
Primary energy consumption per capita	51.20 MWh/capita
Share of renewables in primary energy supply	8.50 %

Breakdown of final energy consumption by sector



Breakdown of final energy consumption by energy carrier



Source: Czech Statistical Office (2010).



3. Funding instruments

National Funds and Programmes

The National Programme for Economical Energy Management and Use of Renewable and Secondary Sources

This programme was prepared by the Ministry of Industry and Trade in cooperation with the Ministry of Environment. Pursuant to the Act is the National Programme document expressing goals for **reduction of energy consumption, use of renewable and secondary energy sources** in accordance with economic and social needs, **sustainable development** and **environmental protection**. The national programme is aimed at the following target groups: state and local governments, businesses, households and non-governmental organisations. However, all financial resources have been exhausted and the follow-up is now under way to monitor the results of this programme in promoting energy savings and renewable energy sources between the years 1991-1998. The same assessment is ongoing for the State programme to promote energy efficiency and the use of renewable energy sources between 1999-2001 and 2006-2009 (hereinafter the "State programme"). The average annual amount of direct economic support from government sources and international sources, in the period 2006-2009 was around 1.9 billion CZK (€73 million).

EFEKT 2013 Programme

The EFEKT Programme promotes actions concerning energy savings and the **use of renewable energy sources** in the Czech Republic and includes energy programmes supported by the Structural Funds of the EU since 2000. Subsidies are provided for education and consulting activities, energy management, and for smaller investment projects. In total six areas of support were opened: **plans for energy savings; energy savings activities; energy advice activities; promotion and education in the field of energy; energy management;** and specific and pilot projects. Each area has particular requirements, namely the subsidy range and the type of applicant such as businesses, non-profit organisations, universities, cities, villages, regions and organizations established by them. The total budget is 30 million CZK (€1.2 billion) for the year 2013.

The Green Savings Programme

This Green Savings Programme focuses on supporting heating installations running on renewable energy sources and on investment on energy savings for new and refurbished buildings. Concretely, the programme supports **thermal insulation** of family houses and non-panel multiple-dwelling houses; the replacement of environment unfriendly heating for low emission biomass-fired boilers and **efficient heat pumps**; installation of **efficient heating technologies** in new low energy buildings; and the construction of houses with **passive energy standards**. The overall anticipated programme allocation is up to 25 billion CZK (€967 million).





FURTHER READING

The National Programme for Economical Energy Management and Use of Renewable and Secondary Sources (CZ): <http://bit.ly/16tygFn>
Program Efekt 2013 (CZ): <http://bit.ly/13T3Ptw>
The Green Savings Programme (EN): <http://bit.ly/1aSgNJT>
The New Panel Programme (CZ): <http://bit.ly/13oOsFF>

European Funds and Programmes

The EU launched several programmes in the area of climate protection and sustainable energy policy. For the period 2007-2013, the Czech Republic had €26.69 billion available from EU funds. Examples of energy-related EU funding programmes are the Intelligent Energy Europe II and INTERREG. During the current programming period, Czech Republic is involved in Operational Programme Cross-border cooperation: INTERREG IV A, IV B and IV C.

There are two thematic operational programmes: the Operational Programme Environment and the Operational Programme Enterprise and Innovations. There is about 30 billion CZK (€1.2 billion) available for energy efficiency, renewable energy and air protection in these programmes.

FURTHER READING

Operational Programme Environment (EN): <http://bit.ly/17OvSKv>
Operational Programme Enterprise and Innovations (EN): <http://bit.ly/15qls2z>
Covenant of Mayors Leaflet “Inspirational Financing Schemes – Food for Thought for Covenant Signatories” (CZ): <http://bit.ly/18MuSeC>





4. Covenant in action

Signatories in action

Energy Management in Jeseník

Jeseník (13,000 inhabitants) has introduced the position of **energy manager** in August 2011 as part of its energy management policy of municipality-owned buildings and facilities. The energy manager is responsible for municipal energy issues, such as the energy purchase for buildings owned by the municipality. The City Council has also decided to measure and display energy consumption of the buildings owned by the local authority. For this purpose, an internet application called "e-manažer" was made available. This tool allows to communicate on energy consumption and associated CO₂ emissions among energy managers and janitors from buildings owned by the local authority. All energy management-related actions are expected to cut by 20% the current energy expenditure of the city.

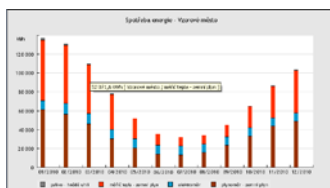
<http://bit.ly/16eBChp>

5. Useful resources

Data Sources

Data	Sources
Final energy consumption	Czech Statistical Office, Information System Statistics and Reporting (national and regional level data)
Transportation	Czech Statistical Office (national and regional level data)
Local electricity and heat/ cold production	Energy Regulatory Authority
GHG emission factors	Ministry of Environment, Information System Statistics and Reporting
GHG emission factor for the electricity mix	Ministry of Environment
National energy balance	Czech Statistical Office

Tools & Methods



e-manažer

On-line tool to support the energy management tasks of municipalities. It displays information regarding energy consumption and monitoring of CO₂ emissions in public buildings.

www.e-manazer.cz



Projects supporting Covenant Signatories

come2CoM Project

The project helps municipalities in the Covenant adhesion process as well as in the fulfilment of the Covenant commitments. It specifically provides support in the preparation of a greenhouse gas emission inventory, the definition of actions, and monitoring.



<http://www.svn.cz/cs/pakt>

ENESCOM Project



ENESCOM intends to promote widespread information and dissemination activities in 14 EU countries with the aim of achieving the following objectives:

- to increase the number of EU local communities engaged in the mitigation of climate change through the promotion and adhesion to the Covenant of Mayors initiative;
- to develop capacity building in energy sustainability and the adoption of intelligent local sustainable energy policies via the preparation and implementation of Sustainable Energy Action Plans;
- to promote the integration and institutionalization of energy efficiency and use of renewable energy sources (energy-efficient behaviours and lifestyles) within EU local communities, targeting all relevant stakeholders (public administration, businesses, citizens...).

<http://www.enescom.org/>

PATRES Project



The project offers an integrated, multidisciplinary package, including training, technical assistance and coaching for local authorities, businesses, public utilities and social housing entities. The main objective of the project is to translate these methods into regulations and codes for the construction and renovation of buildings and for green public procurement. It aims at supporting the deployment of renewable energy technologies in buildings.

<http://www.patres.net/cze/o-projektu.aspx>

First Covenant of Mayors Conferences in the Czech Republic



Two conferences were held in the town of Jeseník (first signatory in the Czech Republic) and in the town of Litoměřice (considering to sign) organised by PORSENNA o.p.s. and SEVEN o.p.s-

Video record from the conference: <http://pakt-starostu.cz/dokumenty/#video>



Technical support

- Covenant Technical Helpdesk: technical.info@eumayors.eu

FURTHER INFORMATION IN CZECH

Website of a conference organised in 2011 on the Covenant of Mayors: <http://www.pakt-starostu.cz/>

Brochures & Publications: http://www.paktstarostuaprimatoru.eu/support/library_cs.html

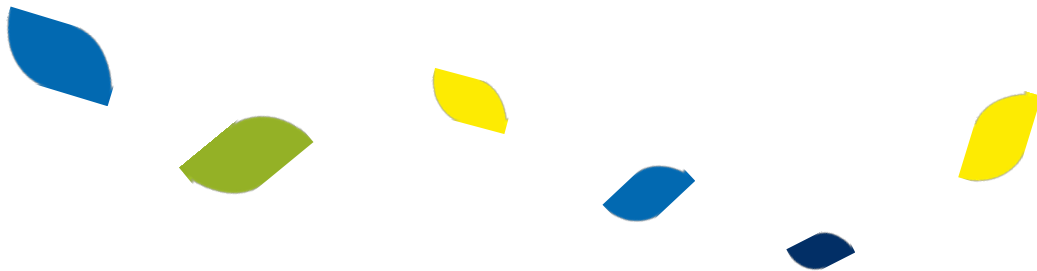
General information:

<http://www.velkavyzva.cz> (The "Big Ask" brings together 18 countries all with the same big ask - their governments commit to reducing carbon emissions, year on year.)

<http://www.chytraenergiedomest.cz> (Smart energy for Cities and Towns – an educative project)

<http://www.ekostopa.cz> (Calculation of the ecological footprint of municipalities)

<http://www.uhlikovastopa.cz> (Calculation of the carbon footprint)



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