Country factsheet

Czech Republic

Summary

The country has favourable conditions for solar thermal. It has an average amount of solar radiation and high demand for heat. The market is overall still rather small, though it is growing at a steady pace.

Despite the fact that there are many companies, no special marketing strategies are in place and there is no attempt to address the wider public. There are two certification testing centres but there are not any educational facilities focusing exclusively on renewable energy sources leaving some kind of systematic educational program to the primary, secondary schools or colleges, which should include the RES thematic into the standard schedule as well.

Country Overview

Population:: 10,3 millions inhabitants
Size: 79 000 km²
GDP pc: 3 530,2 mld czech crowns/2007
3 705,9 mld czech crowns/2008
Climate: Mild but varies according to region and season. The main reason for the differences is the altitude above the sea level. Generally, higher elevations have lower temperatures and higher rainfall

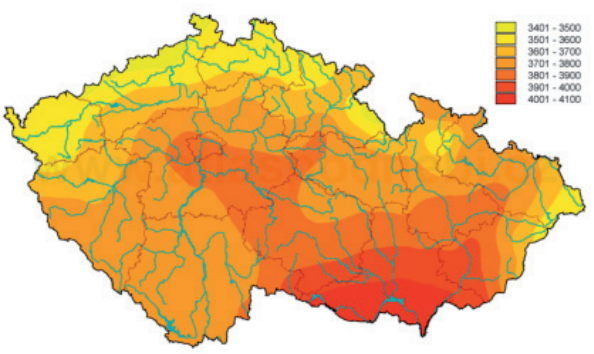
Temperature Data

Indicator	1990	2002
Average annual temperature (°C)	10.7	10.7
The highest temperature (°C)	34.4	27
The lowest temperature (°C)	-13.5	-15.0
Total precipitation (mm)	316.5	625.3

Market potential: solar radiation and heat demand

Global Radiation

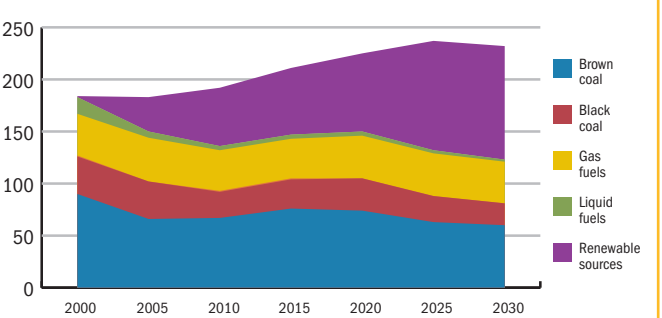
Between 3401 MJ/m² (=945 MWh/m²) and 4100 MJ/m² (= 1140 MWh/m²).of solar radiation falls on the Czech Republic annually.



Forecast energy consumption

Fuel and energy demand is growing faster than domestic demand because of increased exports to more developed EU nations. European sources of crude oil and natural gas will be exhausted by the year 2030, being the alternative Russia or overseas.

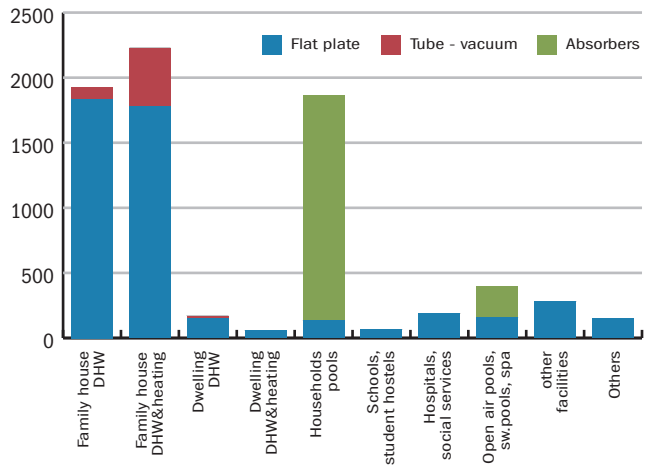
Prediction of primary sources structure for heat production



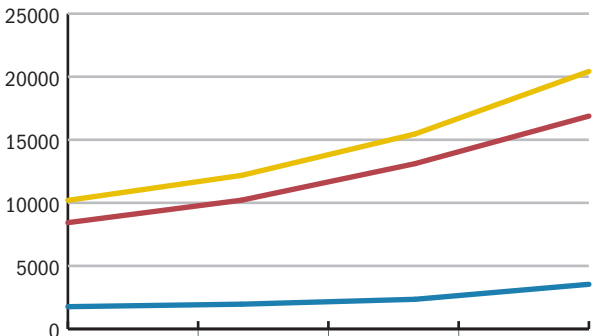
Solar Thermal Statistics

Total	Newly installed					2008		
2008	**2003**	**2004**	**2005**	**2006**	**2007**	**Sum**	Flat	Vacuum
165,100	10,200	12,250	15,550	20,400	25,000	**35,000**	26,500	8,500

Installations 2006: areas and applications



Imports of solar collectors



	2003	2004	2005	2006
flat plate	8429	10212	13111	16879
vacuum	1768	1965	2353	3542
unglazed	10197	12177	15464	20421

Sources of financial support

Title of support	Description	Specification of projects	Height of donation
EFEKT 2008	State program for energy savings supply and renewable sources usage in 2008 – part A.	Heat pumps in combination with solar thermal systems – bivalent resources.	40% Max. 2000000,- CZK
	Specific pilot projects published as tenders.	Energy savings and RES projects.	100% 3000000,- CZK
Operational Program Business and Inovation 2007–2013	"Eko-Energie" Program shall encourage SMEs to decrease the energy demand and primary energy consumption of production and increase the use of renewables and secondary energy sources as well as their sustainability.	Building, refurbishment, modernization, waste energy utilization, raising energy efficiency.	**Max. 60%** Max. 100 mil. CZK
Operational Program Environment 2007–2013	Building of new facilities and refurbishment of current stock in order to raise RES utilization for heat and electricity production or combined production.	Building of new facilities and refurbishment of local or central heat sources from RES for heating, cooling and hot water.	**max. 90%**
Donations for households for ecological heating	SEF grants to individuals within the national Program for energy savings and RES utilization 2006-2009.	Solar systems for whole year hot water warming.	**50%** max. 50 000,- CZK
		Solar systems for whole year hot water warming.	**50%** max. 60 000,- CZK
Municipal donations	Some municipalities, on the voluntary base (for example: Prague, Pilsen, Litoměřice).	Renewable sources.	
The Green Savings program	Support for heating installations using renewable energy sources but also investment in energy savings in refurbishment and new buildings; applications for subsidies will be accepted until 30 June 2012 or until the program funds are exhausted.	Subsidised areas: energy savings in heating, construction in the passive energy standard, use of renewable energy sources for heating and hot water preparation, subsidy bonus for selected combinations of measures.	allocation is up to 25 billion Czech crowns

Further information

Further information on: www.cres.gr/trans-solar