

# Renewable Energy in the Czech Republic Today: A Boost on the Horizon?

Prepared for  
**Kongress**  
**Regenerative Energien für Frankfurt und Europa**

by

**Martin Dasek, Dipl. Ing.**

**SEVEn, The Energy Efficiency Center, o.p.s.**

Slezska 7, 120 56 Prague 2, Czech Republic

☎ (+420-2) 2424 7552, fax (+420-2) 2424 7597

E-mail: [seven@svn.cz](mailto:seven@svn.cz), URL: <http://www.svn.cz>

September, 2001

# Goal of the presentation:

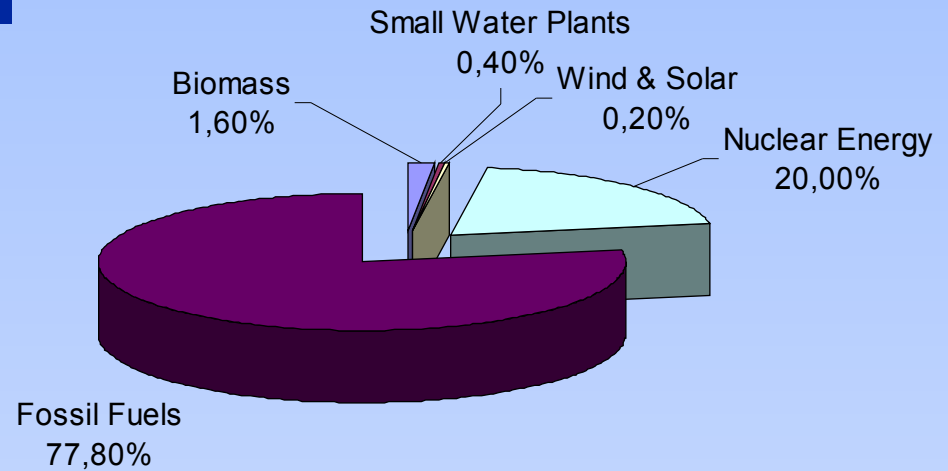
*„Renewable energy is embroiled in a permanent battle with both the fossil fuel and fossil energy lobbies. This presentation is going to be as objective as possible in painting a clear picture of the current situation and future of renewable energy in the Czech Republic.“*

# Contents of the presentation:

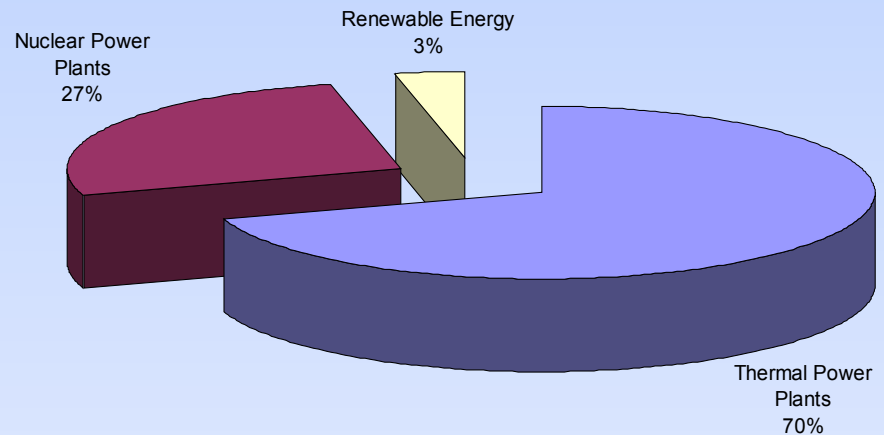
- \* Current Situation
- \* Energy Policy
- \* Potentials of Renewable Energy
- \* Liberalised Market: The Opportunity for Renewable Energy?
- \* Examples Say more than Theory

# Current Situation I

Share of Renewable Energy Sources in **Total Energy Production** (2000)



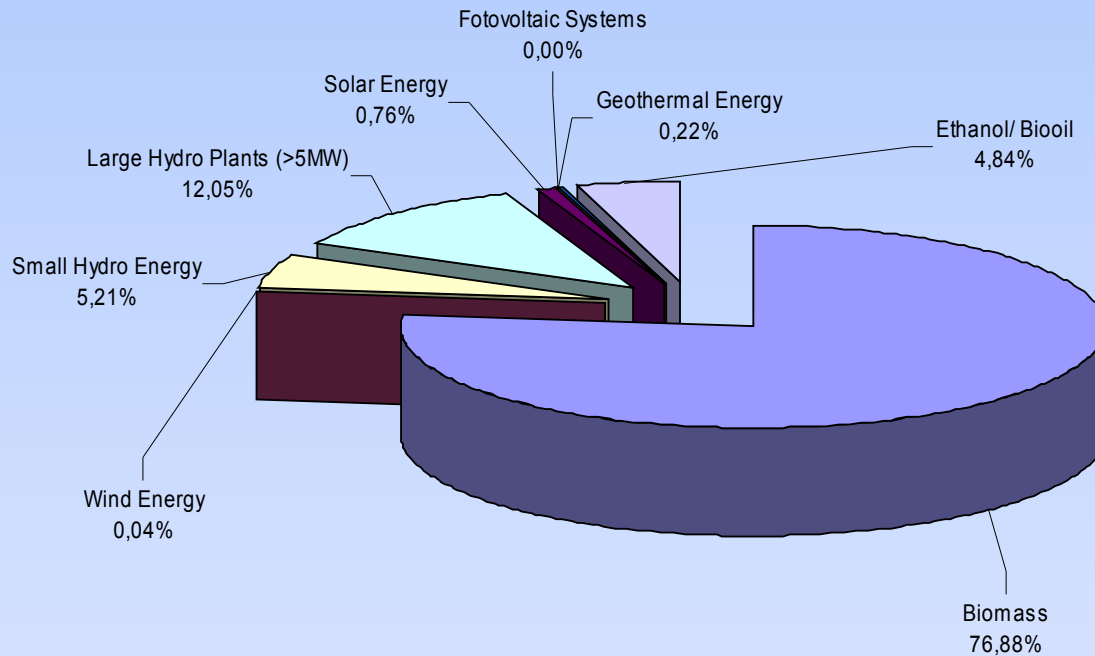
Share of Renewable Energy Sources in **Total Electricity Production** (2000)



# Current Situation II

Share of Different Kinds of Renewable Energy Sources

(Total Production of 20 PJ)



# Energy Policy & Legislation I

- **EP - Condition Necessary, but Not Sufficient**
  - ◆ Oriented to fossil fuel & nuclear energy
  - ◆ Target on renewables defined as 4-6 % by 2010 (compare with current 2.2 %)
  - ◆ Certain, insufficient government support (approx. CZK 500 million. - ie. DM 30 million.)

# Energy Policy & Legislation II

## ■ **New Legislation - A New Perspective**

- ◆ Energy Management Act (406/2000)
  - ◆ National Programme for Support of Renewables
- ◆ Energy Act (458/2000)
  - ◆ Obligation of Renewable Electricity Purchase
  - ◆ The New Prices of Electricity from Renewable Sources

# Liberalised Market

## ■ **The Obligation of Purchase or “Green” Electricity?**

- ◆ “Destroyed” Market with Renewable El. Versus “Business” Conditions
- ◆ Who Will Buy “Green” Electricity?
  - ◆ International Corporations, Definitely
  - ◆ Progressive Entrepreneurs, Maybe
  - ◆ Households, to a Minor Degree

# Potentials for Renewable Energy Sources

		Economic Potential						
		Current Use	Rest for Use		Total Investment	Measured Investment	Total Potential	
		TJ/year	TJ/year	% of Total Potential	10 <sup>6</sup> CZK	CZK/GJ	TJ/year	% Total Energy Resources
<b>Biomass</b>		17 390	33 570	75,63	11 600	350	50 960	2,91
<b>Heat from Waste</b>		1 520	0	0,00	0	0	1 520	0,09
<b>Solar Thermal</b>		140	0	0,00	0	0	140	0,01
<b>Photovoltaic Energy</b>		0	0	0,00	0	0	0	0,00
<b>Heat Pumps</b>		30	2 090	31,49	6 660	3 190	2 120	0,12
<b>Wind Energy</b>		30	60	1,62	240	4 080	90	0,01
<b>Hydro power</b>	small	2 340	1 700	51,32	8 310	4 890	4 040	0,23
	large	4 500	0	0,00	0	0	4 500	0,26
<b>Total</b>		<b>25 950</b>	<b>37 400</b>	<b>52,30</b>	<b>26 800</b>		<b>63 400</b>	<b>3,60</b>

## Examples - Some Good News

- **Biomass Heating Plants**
- **Fast - Growing Biomass Plantations**
- **Biofuel Production**
- **Small Hydro Power Plants**
- **Heat Pumps**
- **Thermo Solar Installations**

## Examples - Principles for the Future

- **Local Activities**
- **To Be Independent of Policy Issues**
- **Good Business Plans & Project Preparations**
- **Orientation to Biomass, Thermo Solar, Heat Pumps, Small Hydro**