

# Renewable Energy Sources Audit

conducted by SAI  
in the Czech Republic

19-22 September 2005, Vienna, EUROSAI WGEA

by Martin Sotona

# Why do we need renewable energy sources (renewables)?

scarce natural resources  
(fossil fuels)



nuclear energy

renewable energy

sustainable development



# Crucial legislative stimulation at the European level

## Directive 2001/77/EC

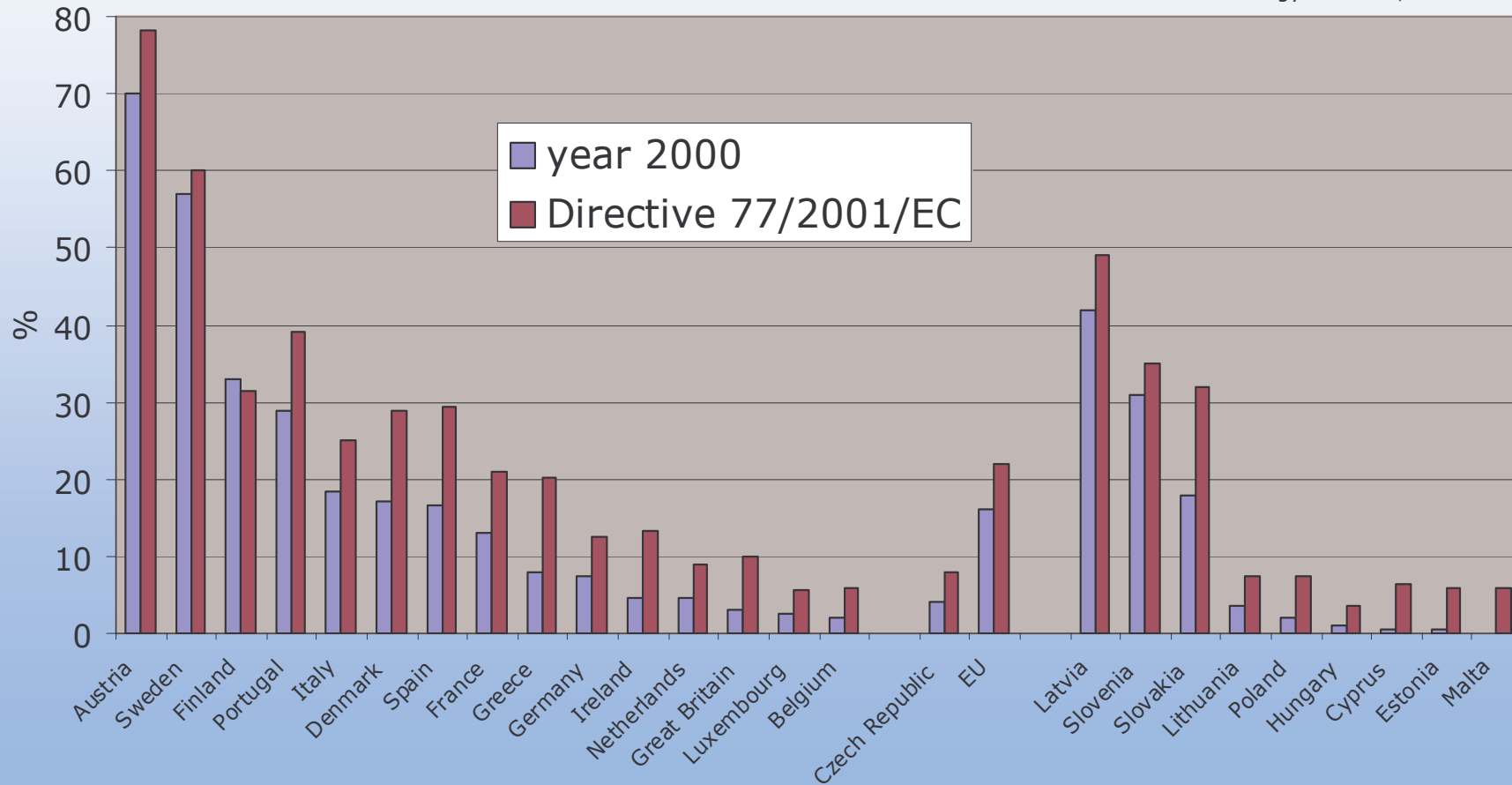
on the promotion of electricity produced from renewable energy sources in the internal electricity market

Czech republic national indicative target:

2010: 8 % of electricity will be produced from renewables

# 2000 electricity generation from renewables in relation to the EU-commitment for 2010

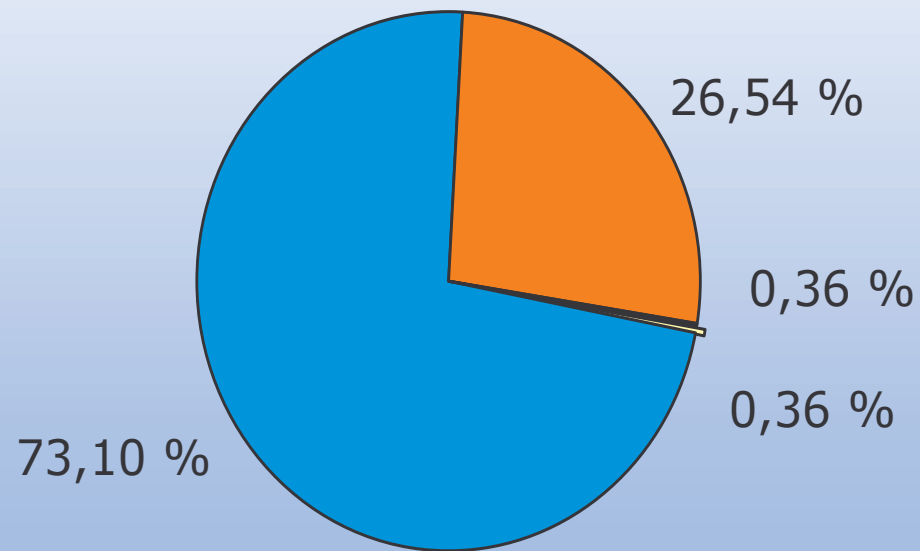
source: Association for the Utilization of Renewable Energy Sources, Czech R.



## Renewables in the Czech Republic

### 2004 electric energy generation

source: Ministry of Industry and Trade



■ wind ■ water ■ bio (biomass, biogas) ■ other (solar, geothermal)



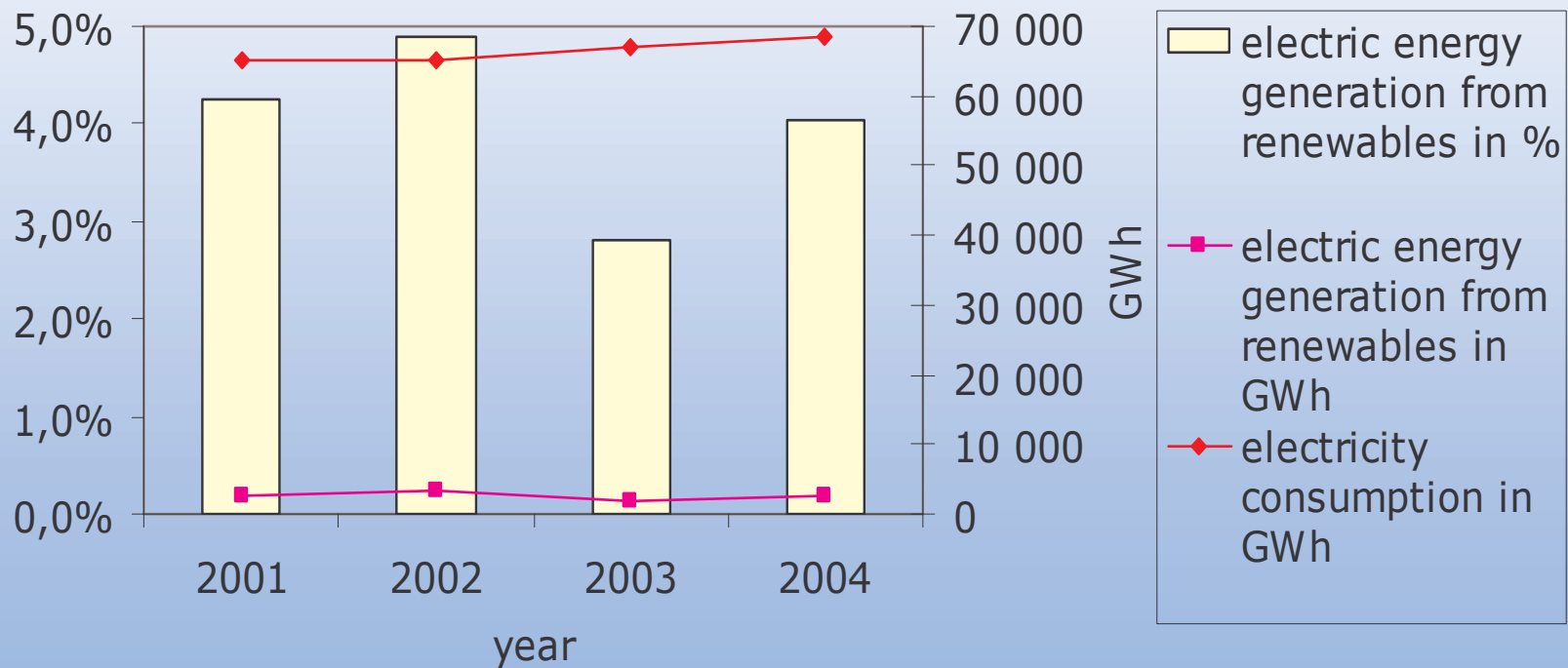
## Renewables in the Czech Republic

		2001	2002	2003	2004
total primary energy supply	(PJ)	1 693,1	1 704,9	1 812,8	1 829,2
renewables energy supply	(PJ)	36,5	33,6	49,3	55,6
	(%)	2,2%	2,0%	2,7%	3,0%

		2001	2002	2003	2004
electricity consumption	(GWh)	65 108	64 961	67 013	68 616
electric energy generation	(GWh)	2 768	3 183	1 878	2 768
from renewables	(%)	4,3%	4,9%	2,8%	4,0%

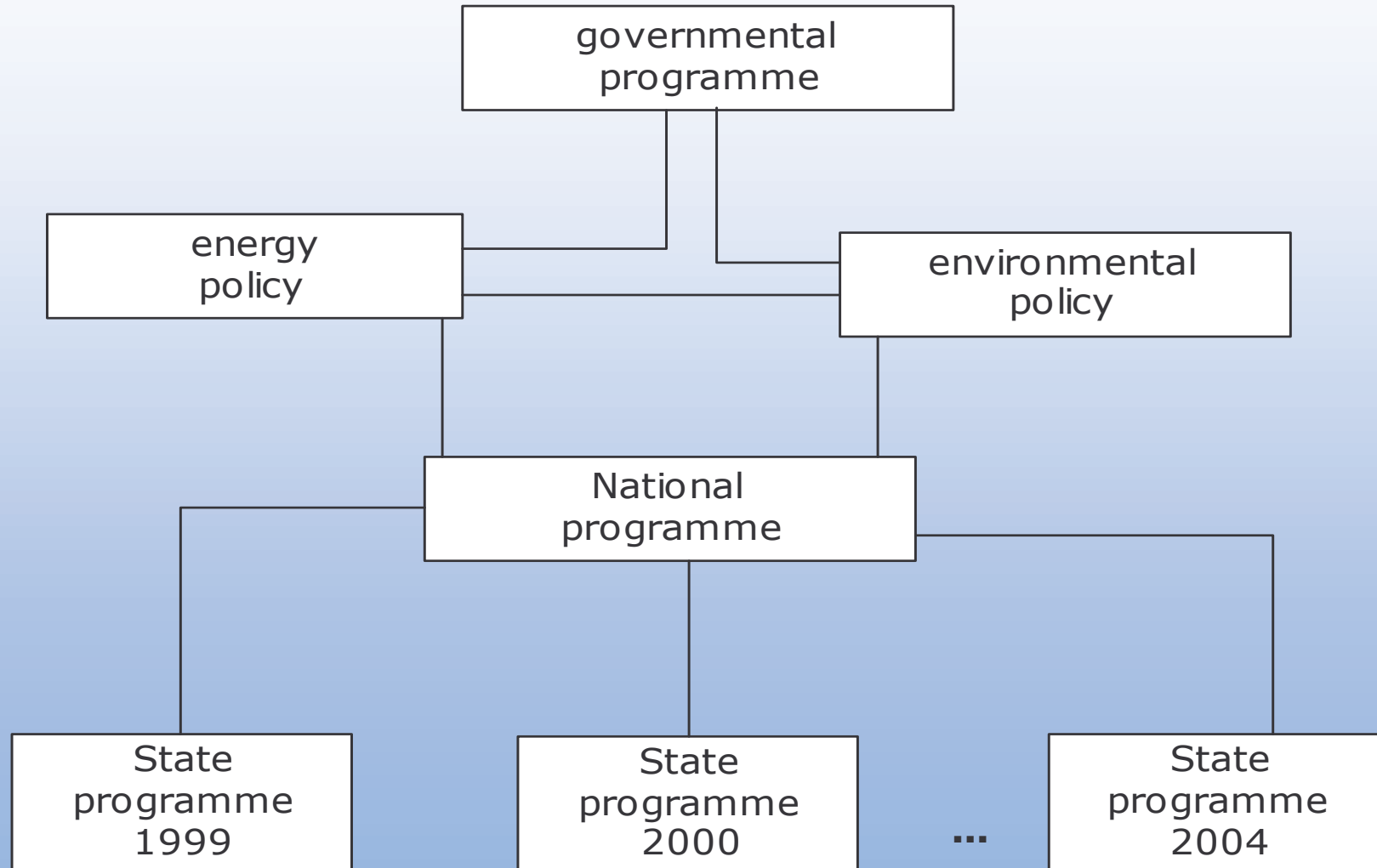
# Renewables in the Czech Republic

## Electric energy generation



Source: Ministry of Industry and Trade

# Czech renewable energy policy





## Czech renewable energy policy

### **governmental programme:**

- pass a law to promote electricity generation from renewables

### **energy policy:**

- Ministry of Industry and Trade
- be independent of foreign energy supplies
- secure energy sources and their reliability
- sustainable development and nature protection



## Czech renewable energy policy

### **environmental policy:**

- Ministry of Environment
- 8 % share of electricity produced from renewables at 2010
- 6 % share of total primary energy supply generated from renewables (electricity & heat)
- promotion of biomass

### **National programme for energy efficiency and promotion of renewable energy sources:**

- Ministry of Industry and Trade and Ministry of Environment responsible for



## Czech renewable energy policy

### **National programme:**

- four year policy document (2002–2005, 2006–2009)
- every second year evaluation
- co-ordinate energy and environment policy aims

### **State programme for energy efficiency and promotion of renewable energy sources:**

- one year policy document
- 11 ministries participate, they announce its own subsidy programmes



## Renewable energy sources audit **characterization**

**audit approach:** sound financial management  
audit

**scope of audit:**

- audited period: years 2001 to 2004
- audited bodies: two government departments (ministries and their agencies), State Energy Inspection, 38 final beneficiaries

**time for audit:** 04/05 – 10/05



## Renewable energy sources audit **current state of audit**

- all 43 audit protocols were received by audited bodies
- findings not yet publicized
- audit conclusion report in October 2005

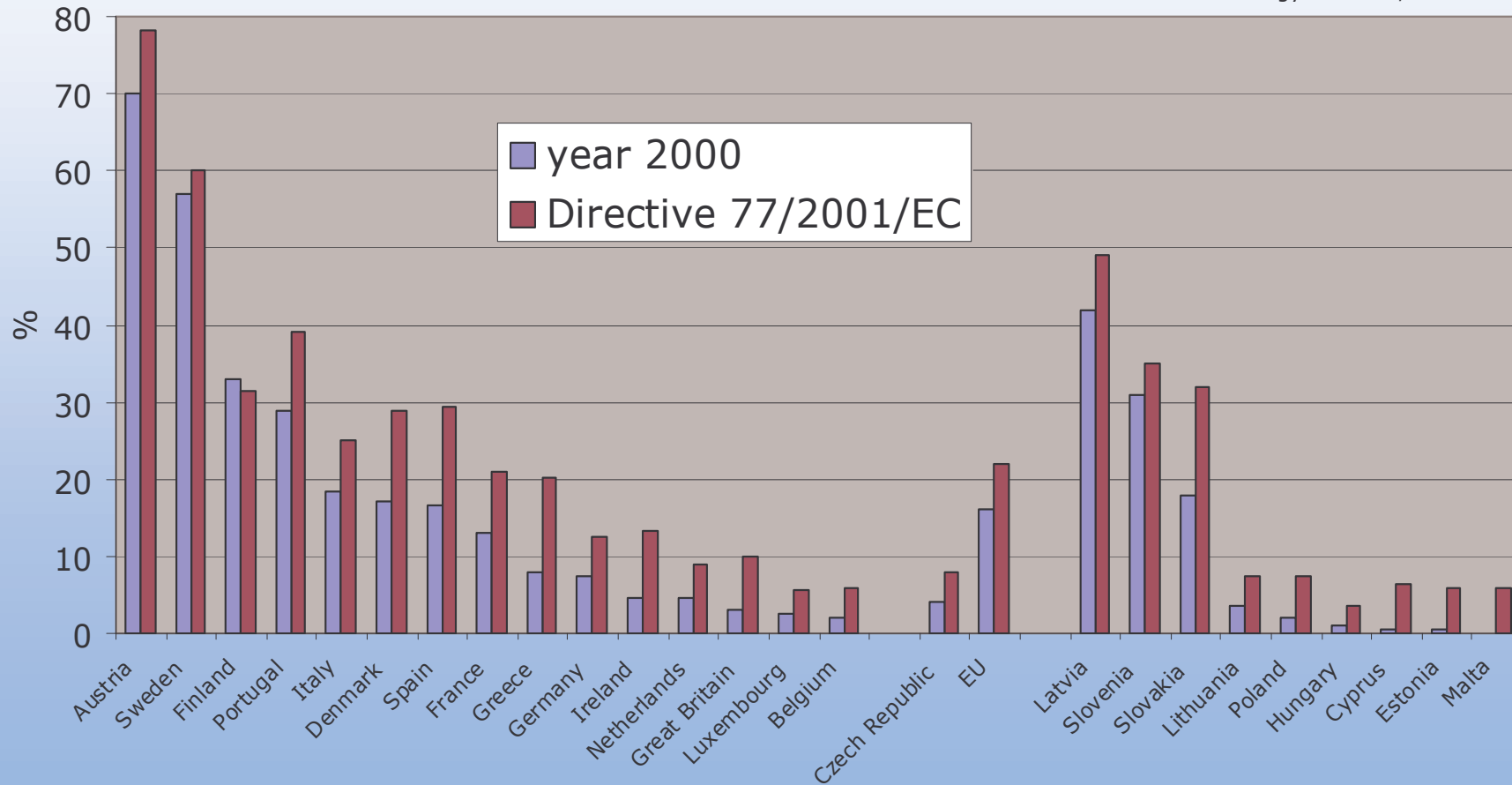
## Renewable energy sources audit main findings

- National programme target of electric energy generation from renewables (5,1 % share in the end of 2005) will not be fulfilled

		2001	2002	2003	2004
electricity consumption	(GWh)	65 108	64 961	67 013	68 616
electric energy generation from renewables	(GWh)	2 768	3 183	1 878	2768
	(%)	4,3%	4,9%	2,8%	4,0%

# Renewable energy sources audit main findings

source: Association for the Utilization of Renewable Energy Sources, Czech R.





## Renewable energy sources audit **main findings**

- Ministry of Environment does not regulate sufficiently structure of renewable energy sources
- energy audits were not correct at all times
- statistics on renewable energy sources were dual and were not accurate
- subsidy system is too complicated



Thank you for your attention!

Any remarks or questions are  
welcomed.

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