INSTITUTE OF
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EAV

„State of the art“ report

Czech republic

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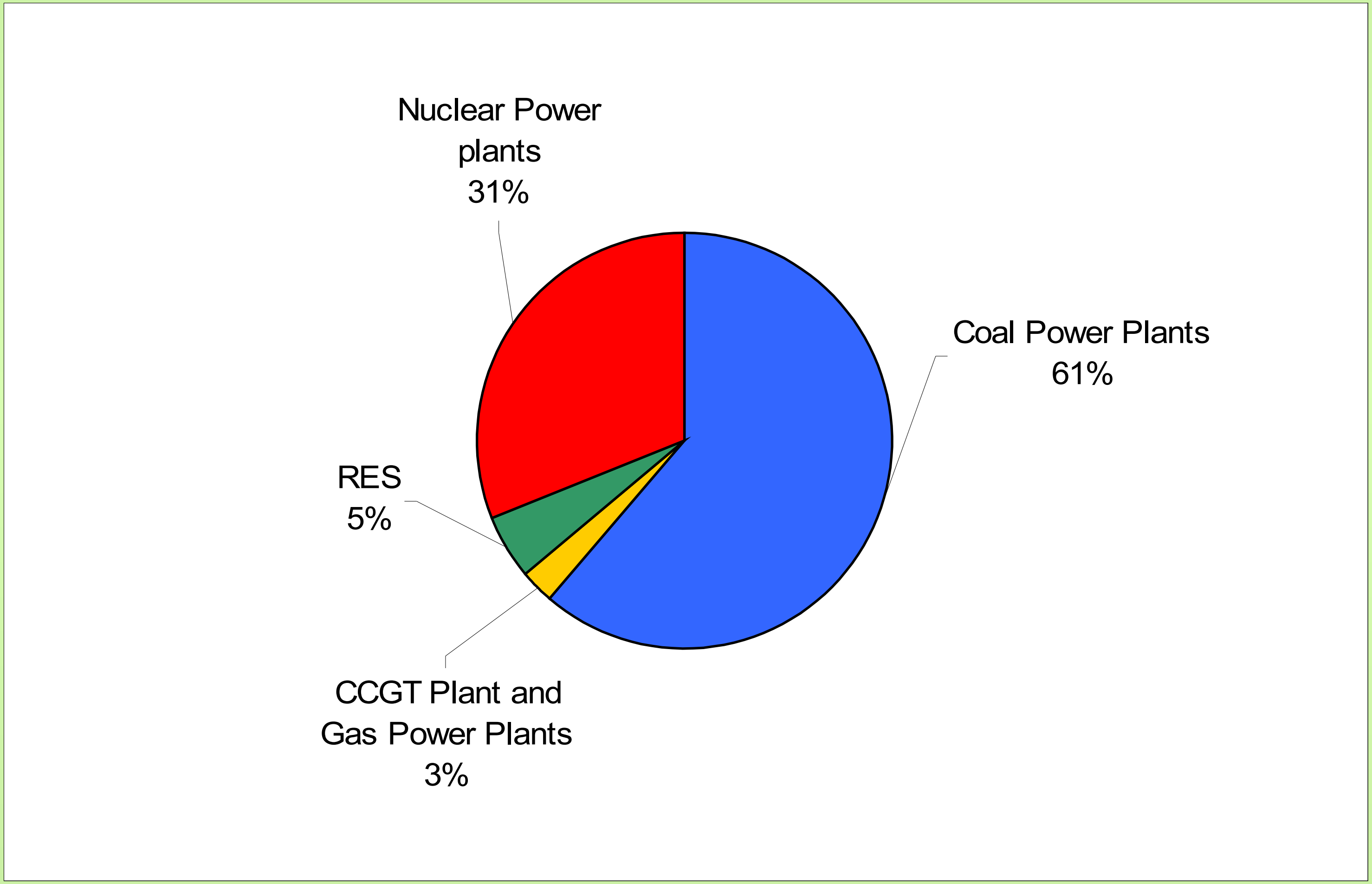
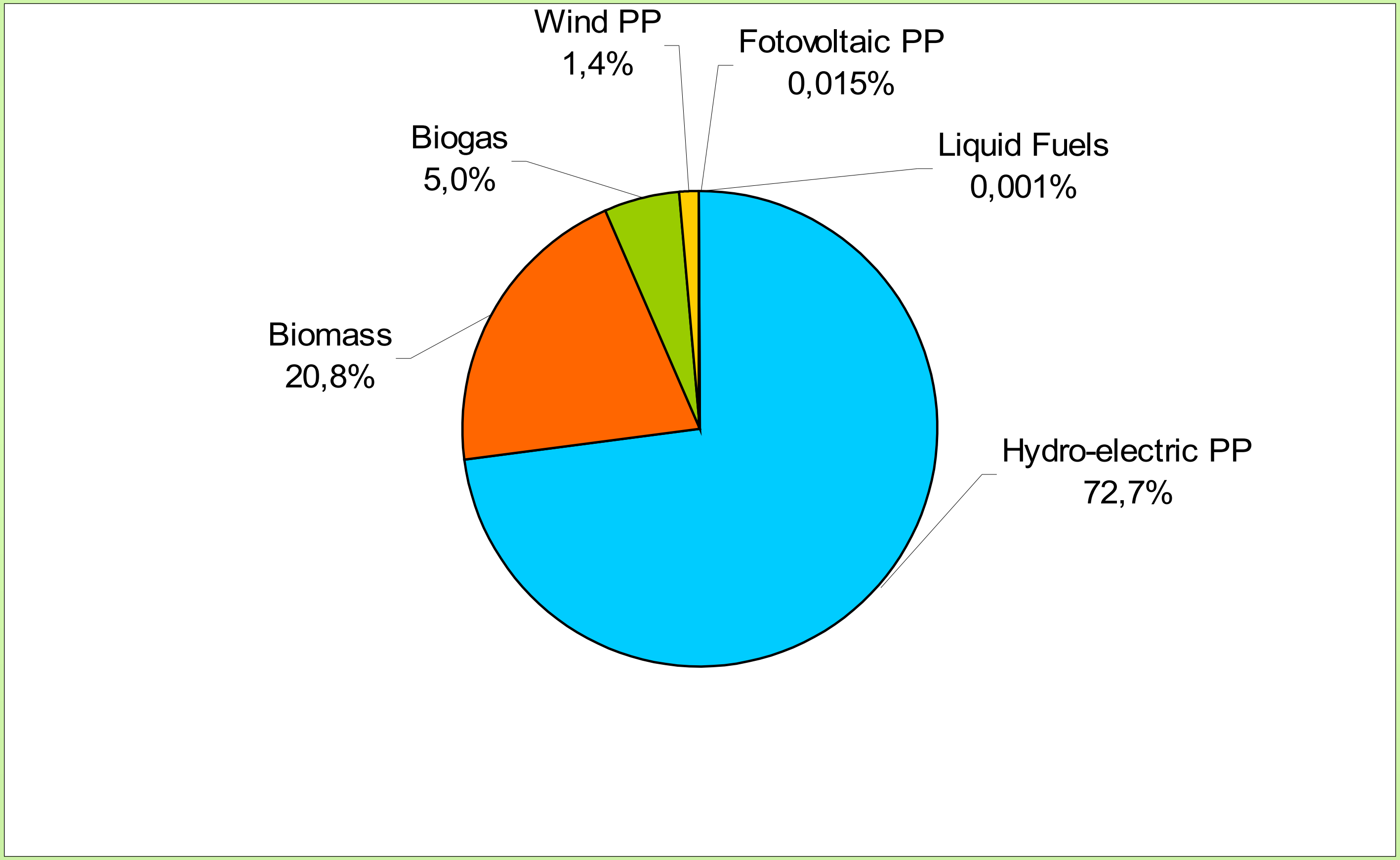
Energy production in the Czech Republic in 2006



Electricity production from RES in 2006: 3,5 TWh
=> 4,9% of total electricity consumption

in 2008: 8% of electricity consumption should be covered from RES (another 3 TWh)

Energy production from RES in the Czech Republic in 2006



biogas: only 5% of total RES is covered by biogas

Biogas sources and plants:

- **Landfill-gas**

-13 land-fills with biogas production
-mainly cogeneration, biggest plant in Prague (total 4920 kWe)

- **Sewage works**

- more than 100 facilities equipped with either cogeneration or boiler
- ca 70.10^6 m^3 of biogas per year

- **Gasification**

- several demonstration or research units

- **Biogas plants**

Biogas sources and plants:

- **Biogas plants**

- by the end of 2007: ca 30 biogas plants (11 agricultural)
- the oldest in operation since 1974

- 90's stagnation - no new plants were build

- in 2007 more than 100 new projects of BG plant accepted

- till 2015 - potential for 400 BG plants

Tab. Biogas production in 2006

Plant	Biogas production (10^6 m^3)
Sewage works	70,0
Landfills	51,0
Biogas plants (agricultural)	5,3
Biogas plants (industrial)	3,2
Total	***130,5***

- Velký Karlov (biggest BG plant):

1,4 MWe (1,3 MWt)

Main obstacles and barriers

❑ **Biogas Plant Building** – negative public opinion

- Several problems with odor -> strong resistance against new BG plants

! No one wants BG plant in his neighbourhood !

❑ **Legislative and technical rules**

- no legislative or regulations for Biomethane; - no subvention for Biomethane
- Biomethane is not defined as a gaseous fuel in the „Energetic Law“ (458/2000)

-> possible producer of Biomethane will be considered as a Natural Gas producer

- i.e. to meet the requirements for NG quality and Technical regulations of Gas Transmission Operator or Gas Supplier

2008/09

- novelization of the Energetical Law; changes in the entry-exit model
- at least 2 feasibility studies of biogas upgrading (big energy companies)