

Energy Policies and Alternative Sources in the European and Nordic Context – A Market View

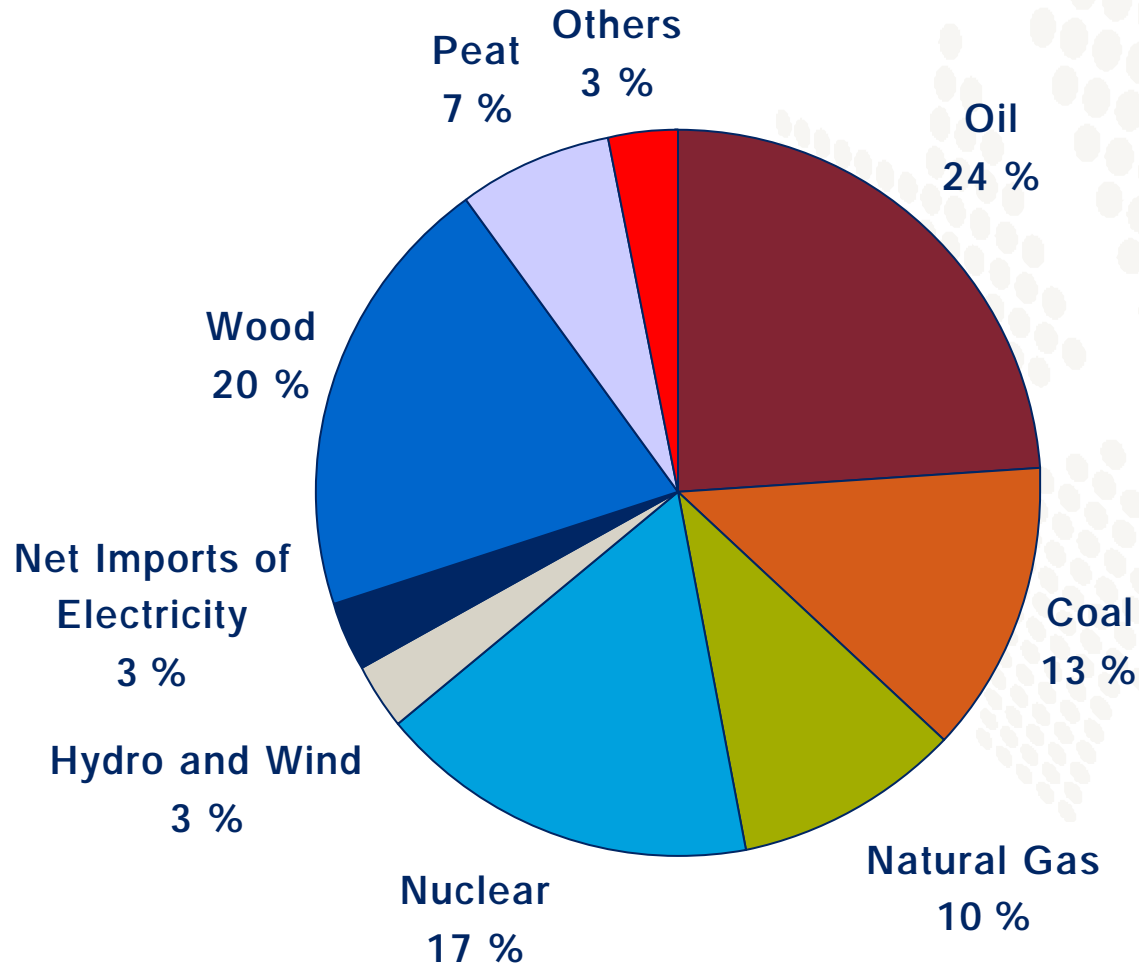


Tallinn 21.8.2008

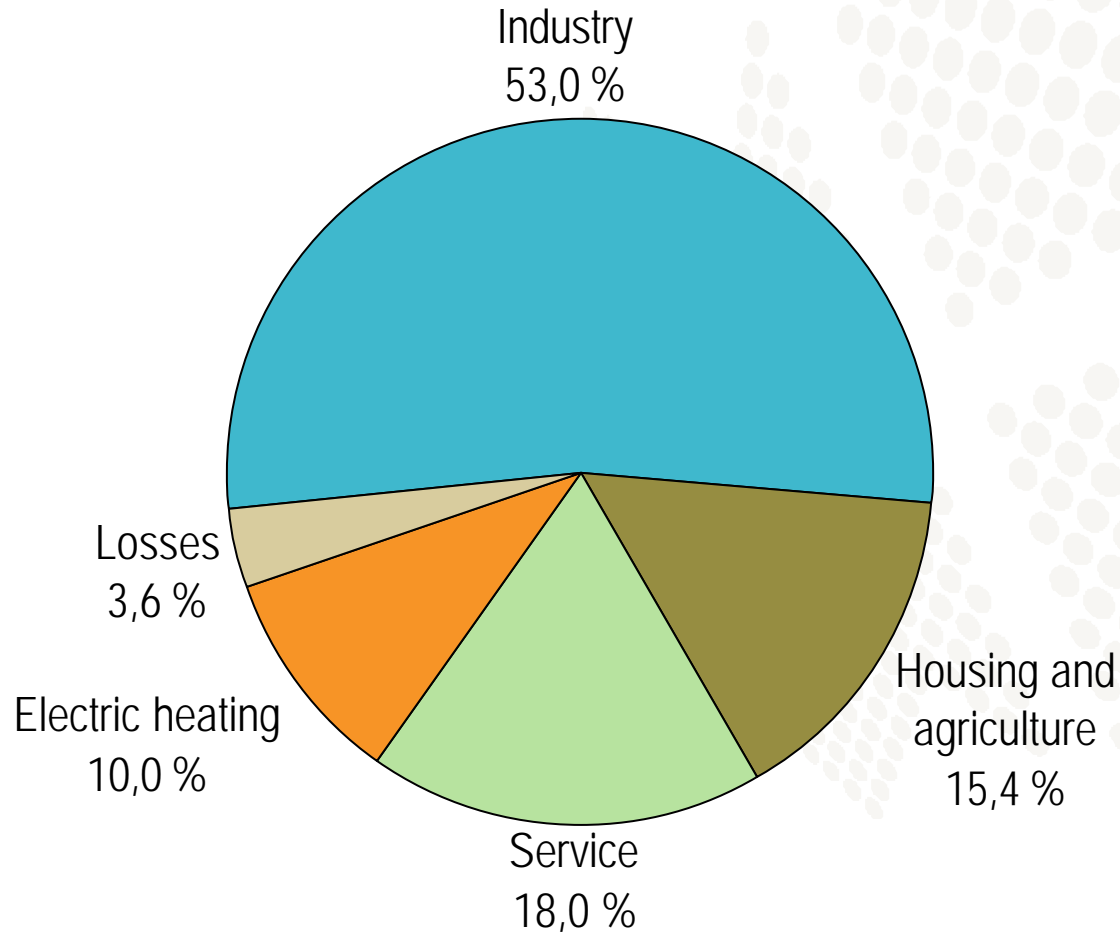
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**Technology
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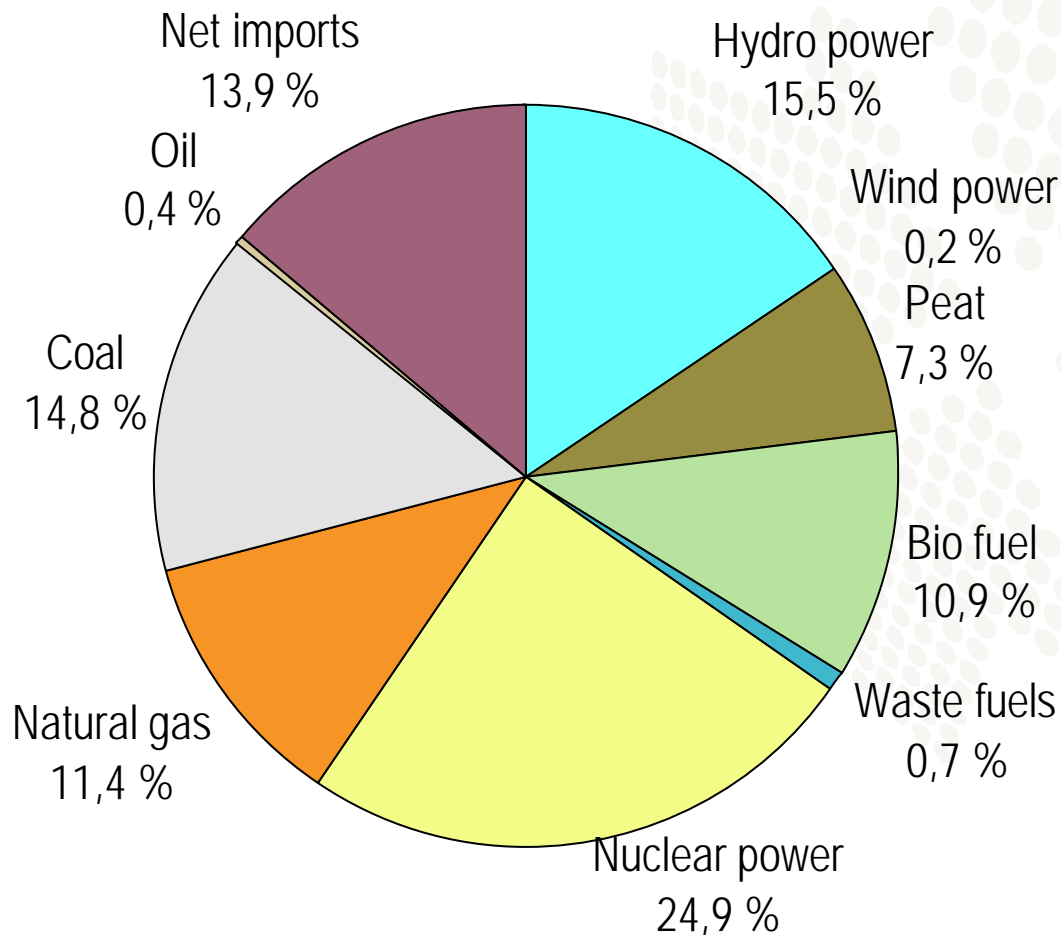
Primary Energy Consumption in Finland in 2007 (35,4 Mtoe)



Consumption 2007, 90,3 TWh



Electricity Supply by Energy Sources 2007 (90,3 TWh)



Challenges for Security of Supply

- Dependence on imported energy
 - Most critical electricity and natural gas
- Old fossil fired power plants should be replaced because of new flue gas emission standards determined by EU directive
- Reduce dependence on imported electricity
- Cover the growth in electricity consumption

Possibilities to Meet the Challenges

- New capacity for power production
 - Nuclear power and renewable energy both contribute to security of supply and reduction of CO2 emissions
- New connections for transmission of electricity
 - Baltic ring
- New players in Nordic energy market needed to enhance competition

Available Capacity: Existing Plants and Possible New Plants

