



EUROPEAN
COMMISSION

Community Research

Socio-economic tools and concepts for energy strategy

EU Information Day
Brussels, 19 October 2004

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Sustainable Energy Systems





MAJOR WORLD ENERGY ISSUES

- **A world dominated at 80% by fossil fuels today and probably at 90% in 2030**
- **North-South “oil dilemma”**: 60% of oil is consumed by ten industrialised countries and more than 60% of oil is produced by ten developing countries
- **“Rush for gas”**: 18% of electricity is produced with gas today and it is expected to be 28% by 2030
- **“Coal in Asia”**: in a reference case, the share of coal will be multiplied by a factor 2.5 in the next 30 years





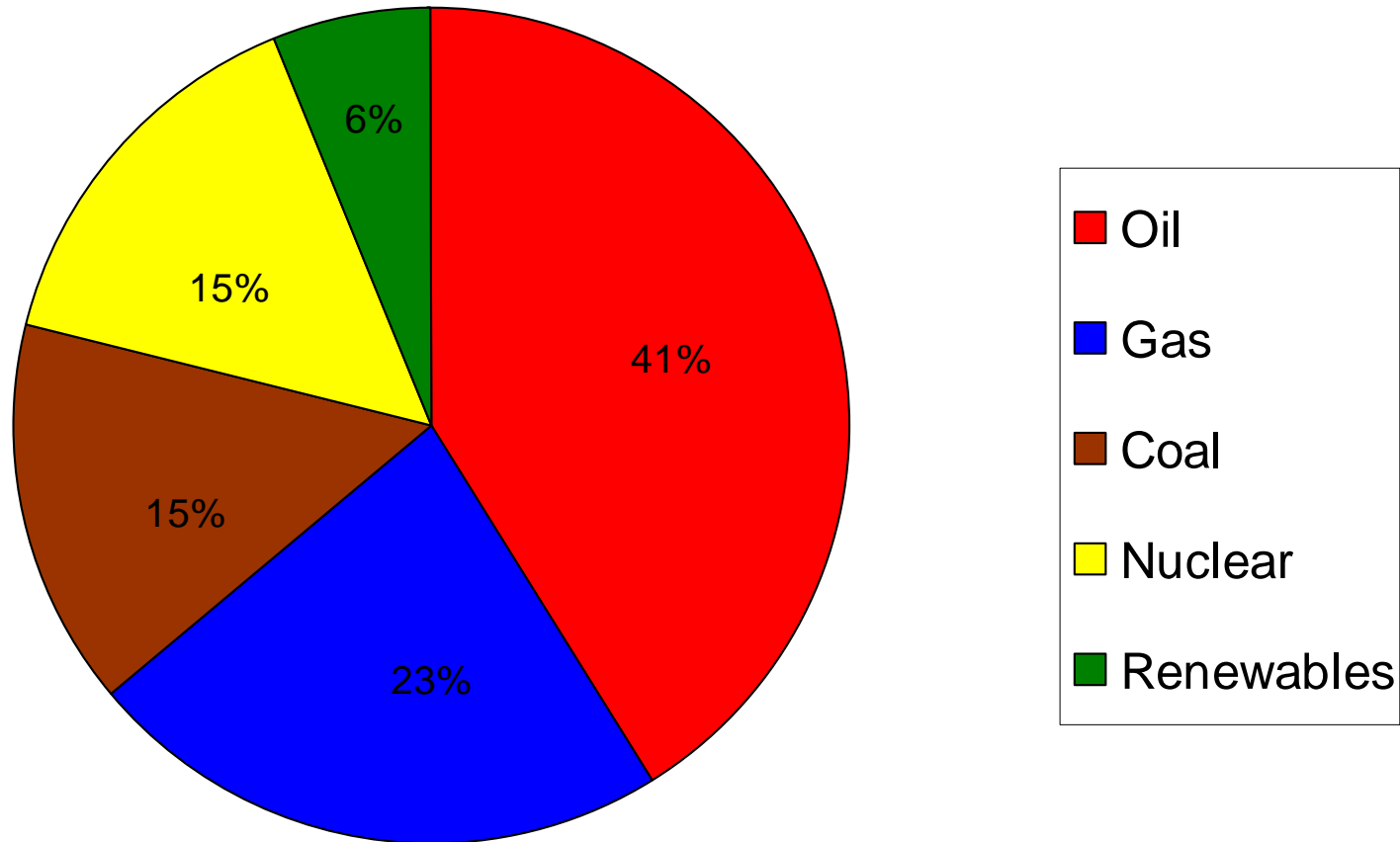
MAJOR EUROPEAN ENERGY ISSUES

- **Security of supply: reverse the tendency of producing less and consuming more**
- **Sustainability and environmental issues: greenhouse gases and nuclear wastes**
- **Critical point around 2020-2030: oil and gas prices; renewal of power plants; large investments (€500 billions for electricity); transition period before a large implementation of renewables, fusion and hydrogen**





EUROPEAN UNION ENERGY MIX (2000)



Topics

- **Total costs (economic and environmental assessment)**
- **Social acceptability (behaviours, international dimension for RUE and RES)**
- **Modelling, forecasting and new paradigms**

11 presentations: Be synthetic!





WEB INFORMATION SOURCES

<http://www.cordis.lu>

http://europa.eu.int/comm/research/energy/index_en.html

http://europa.eu.int/comm/energy/index_en.html

http://europa.eu.int/comm/research/fp6/firstcallresult_en.html

http://fp6.cordis.lu/fp6/eoi_details.cfm?CALL_ID=100

Call for proposals: 8 December 2004 deadline

