

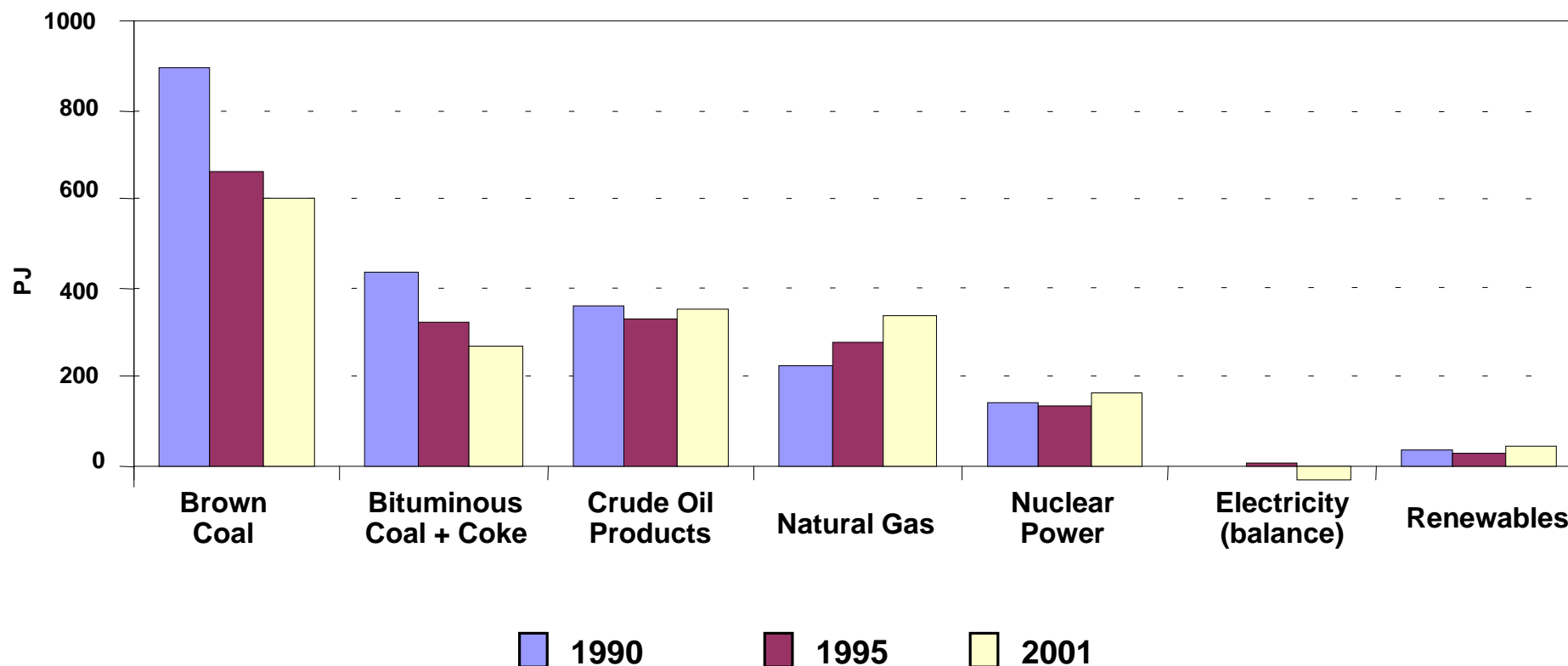
Energy Policy of the Czech Republic

Martin Pecina
Deputy Minister
Ministry of Industry and Trade



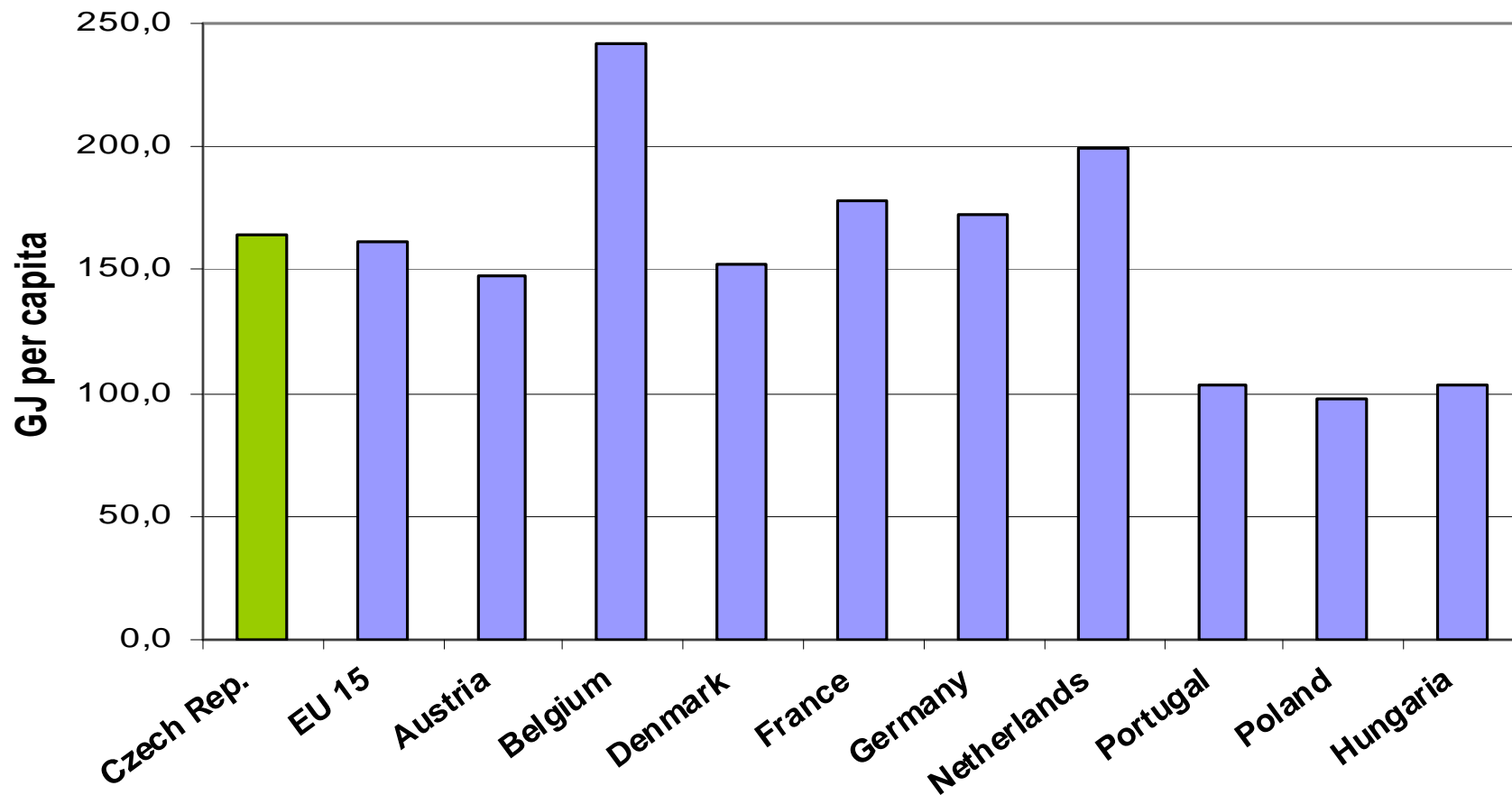
Czech Republic – Basic Data

Primary Sources Consumption



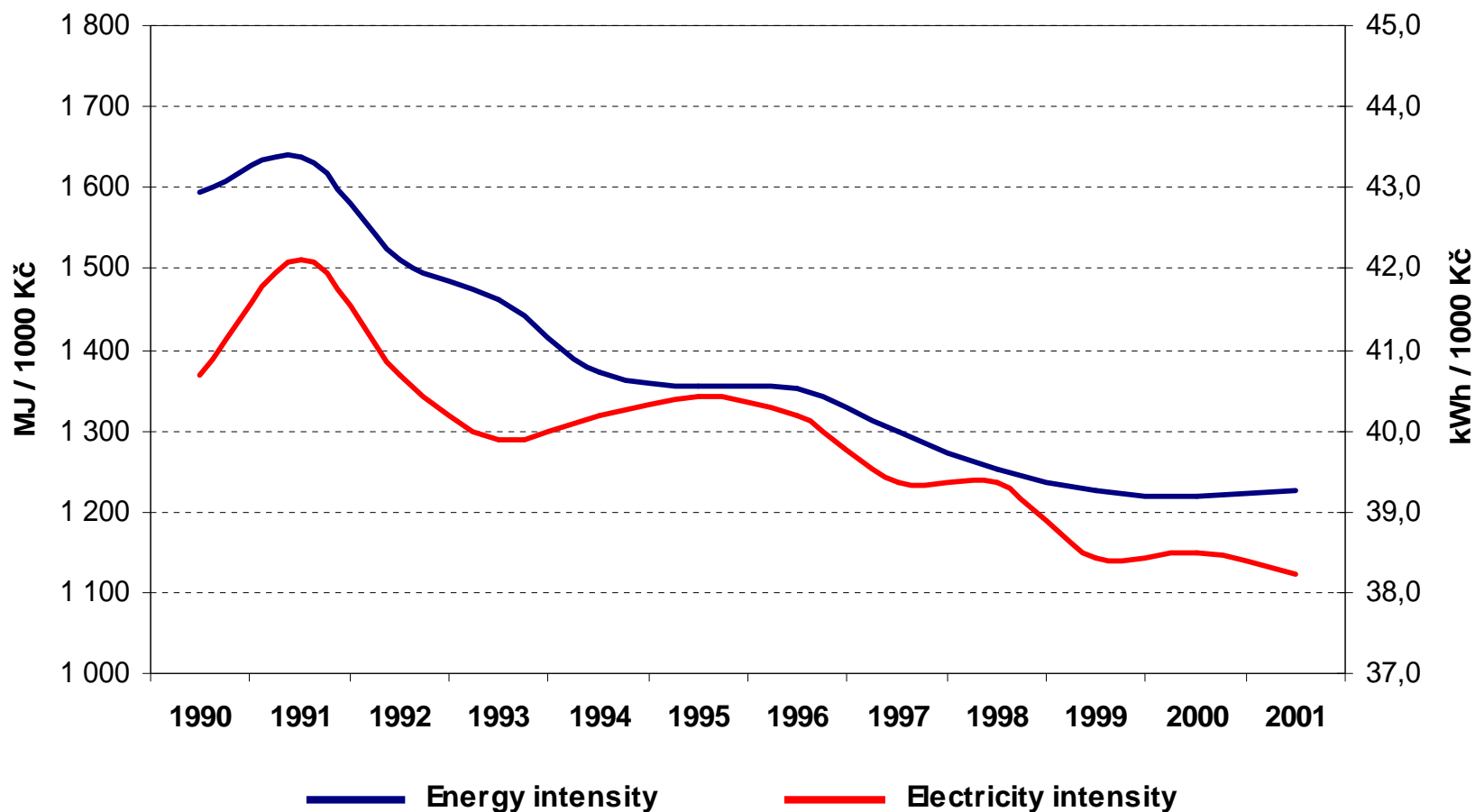
Czech Republic – Basic Data

Specific Consumption per capita



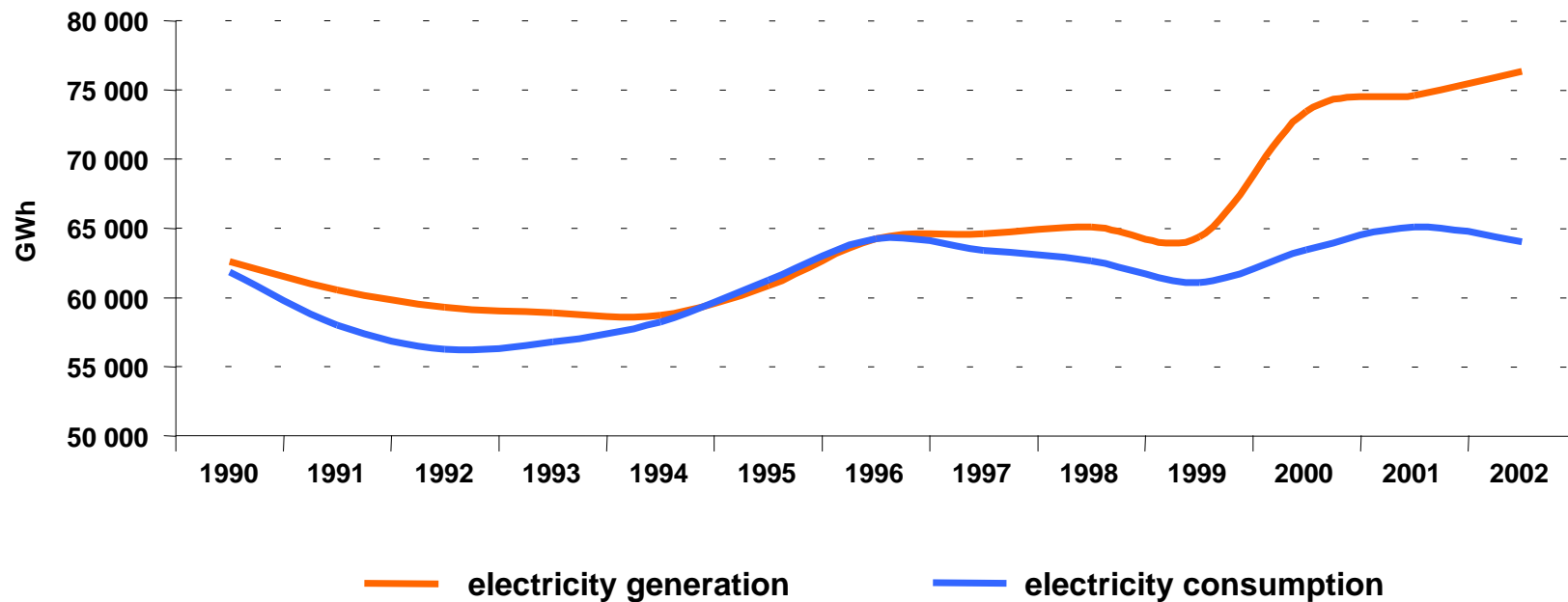
Czech Republic – Basic Data

Energy intensity of GDP



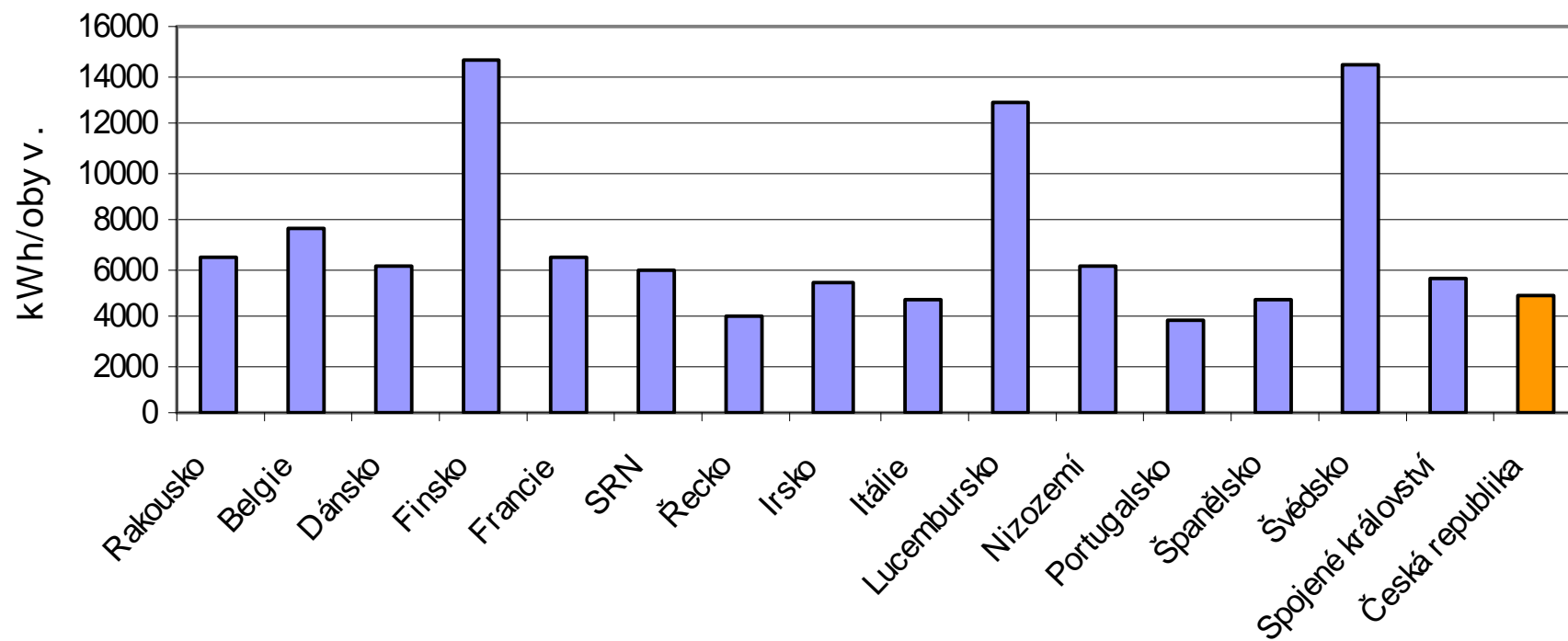
Czech Republic – Basic Data

Electricity generation vs consumption



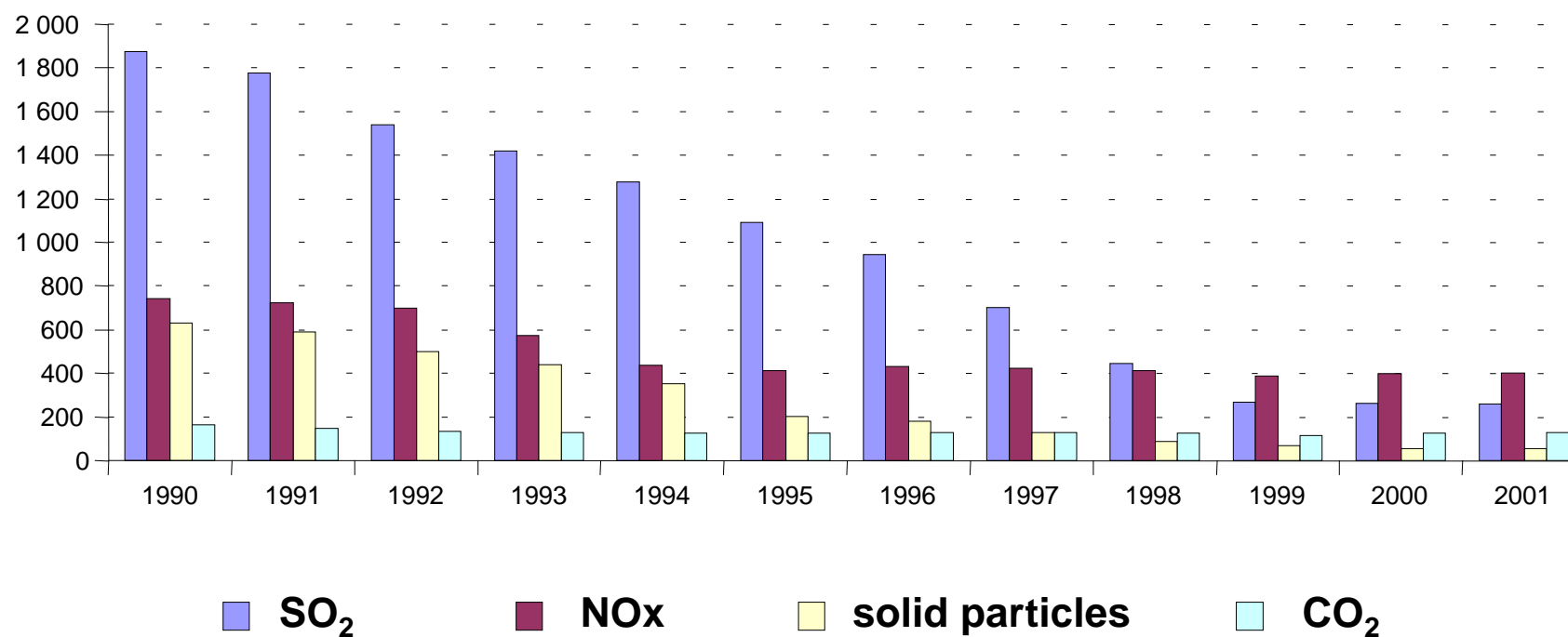
Czech Republic – Basic Data

Electricity consumption per capita

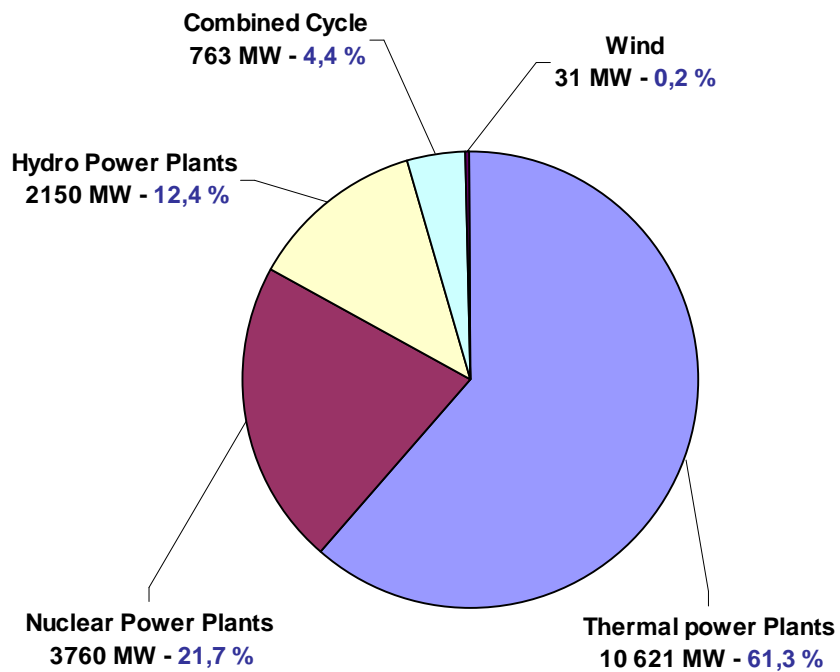


Czech Republic – Basic Data

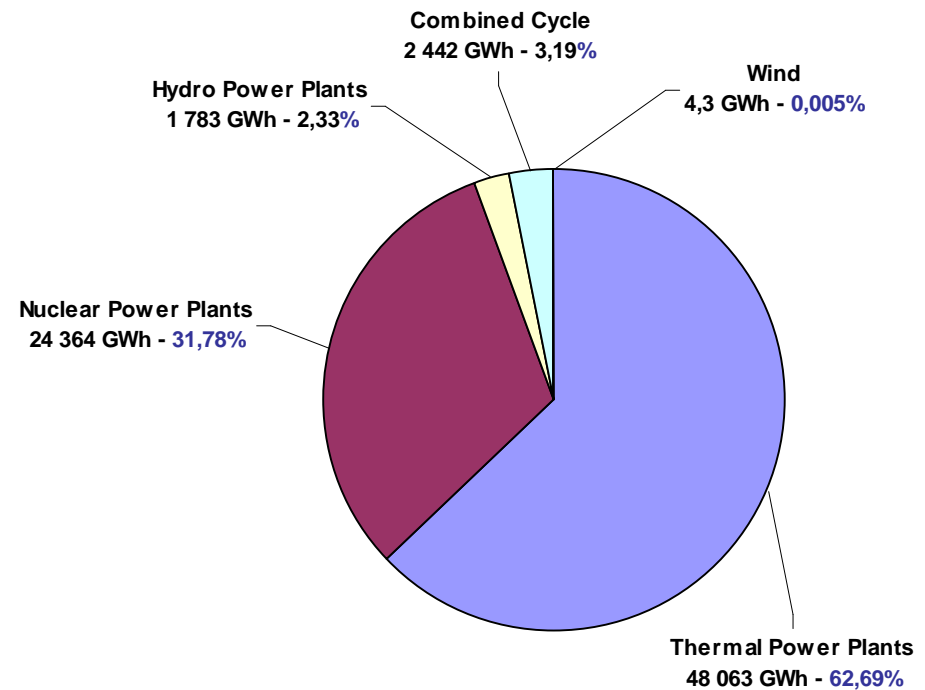
Emissions



Electricity - Installed capacity vs generation in 2003



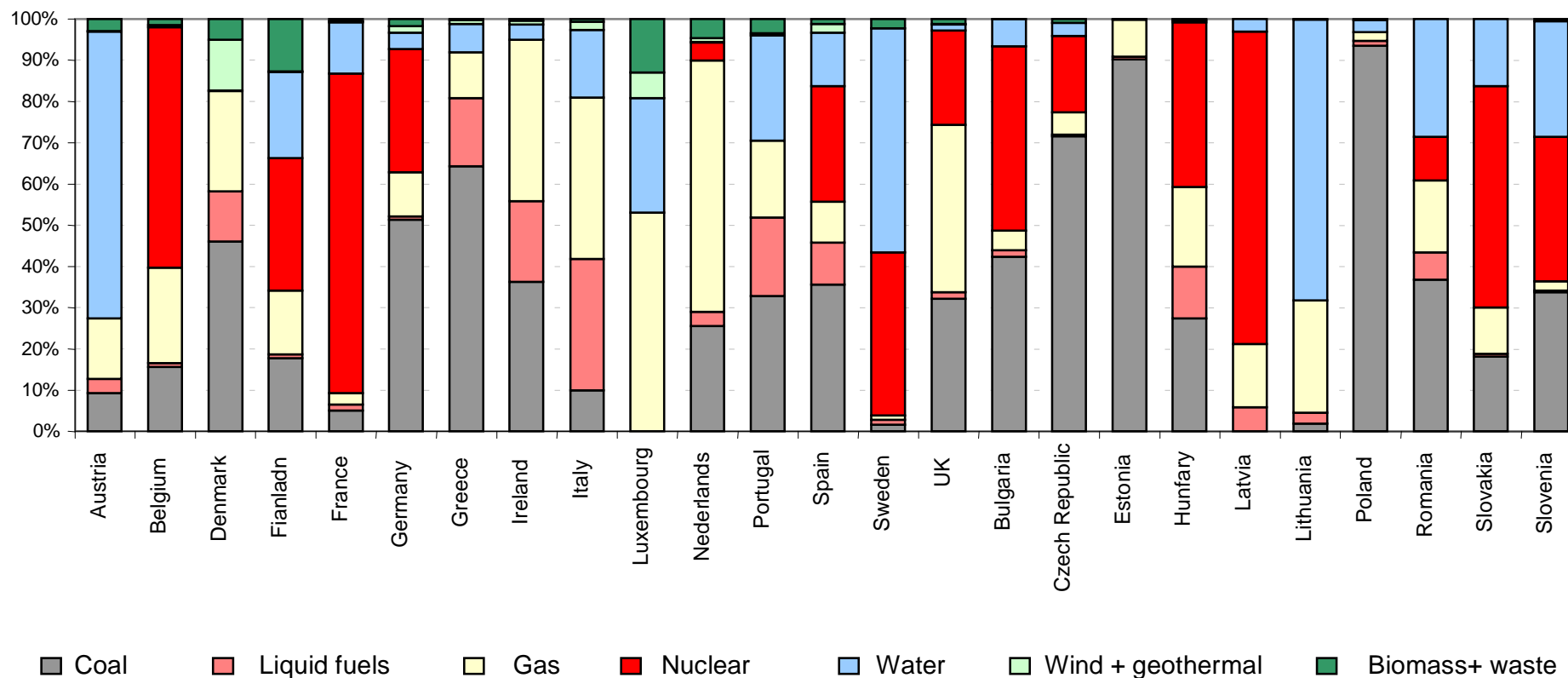
Total: 17 325 MWe



Total: 76 658 GWh

Electricity generation International comparison

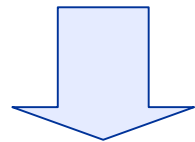
Electricity generation structure in 2000



Energy policy Philosophy update

PRIORITIES

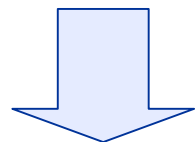
definition



OBJECTIVES

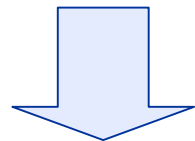
4 main, 15 partial objectives
(incl. indicative targets)

- present state
- instruments already applied
- required targets
- new instruments



INSTRUMENTS

legislation, programmes,
policy outlooks



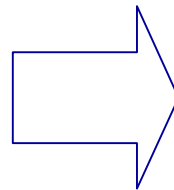
energy sector development scenario
primary sources proportion until 2030

Energy policy

Priorities

§ INDEPENDENCE

foreign primary sources
sources from risky areas
security of supply



domestic coal preference
oil and gas
nuclear power

§ SECURITY OF SUPPLY

§ SUSTAINABLE DEVELOPMENT

§ ENERGY EFFICIENCY

- § new power sources with higher efficiency
- § process efficiency - energy intensity of GDP creation
- § heat savings
- § appliances efficiency

§ SUITABLE PRIMARY SOURCES PROPORTION

- § domestic sources – brown, bituminous coal
- § renewables – biomass, wind (from 3% to 8% in 2010)
- § nuclear power – new units after 2025

§ ENVIRONMENTAL PROTECTION

- § further reduction of emissions production
- § reduction of greenhouse gases emissions
- § minimisation of waste influence – recycling, disposal

§ LEGISLATION

§ energy act

- § liberalisation (measures according to EU directives)
- § authorisation of power plants > 30 MWe
- § end consumer protection

§ act on energy management

- § energy efficiency

§ act on promotion renewable electricity (directive 2001/77/EC)

- § quota based system (to meet 8% share in 2010)
- § tradable certificates system from 2006
- § fixed prices for small producers (up to 200kW inst.)

§ environmental taxes (directive 2003/xx/EC)

§ NATIONAL PROGRAMMES

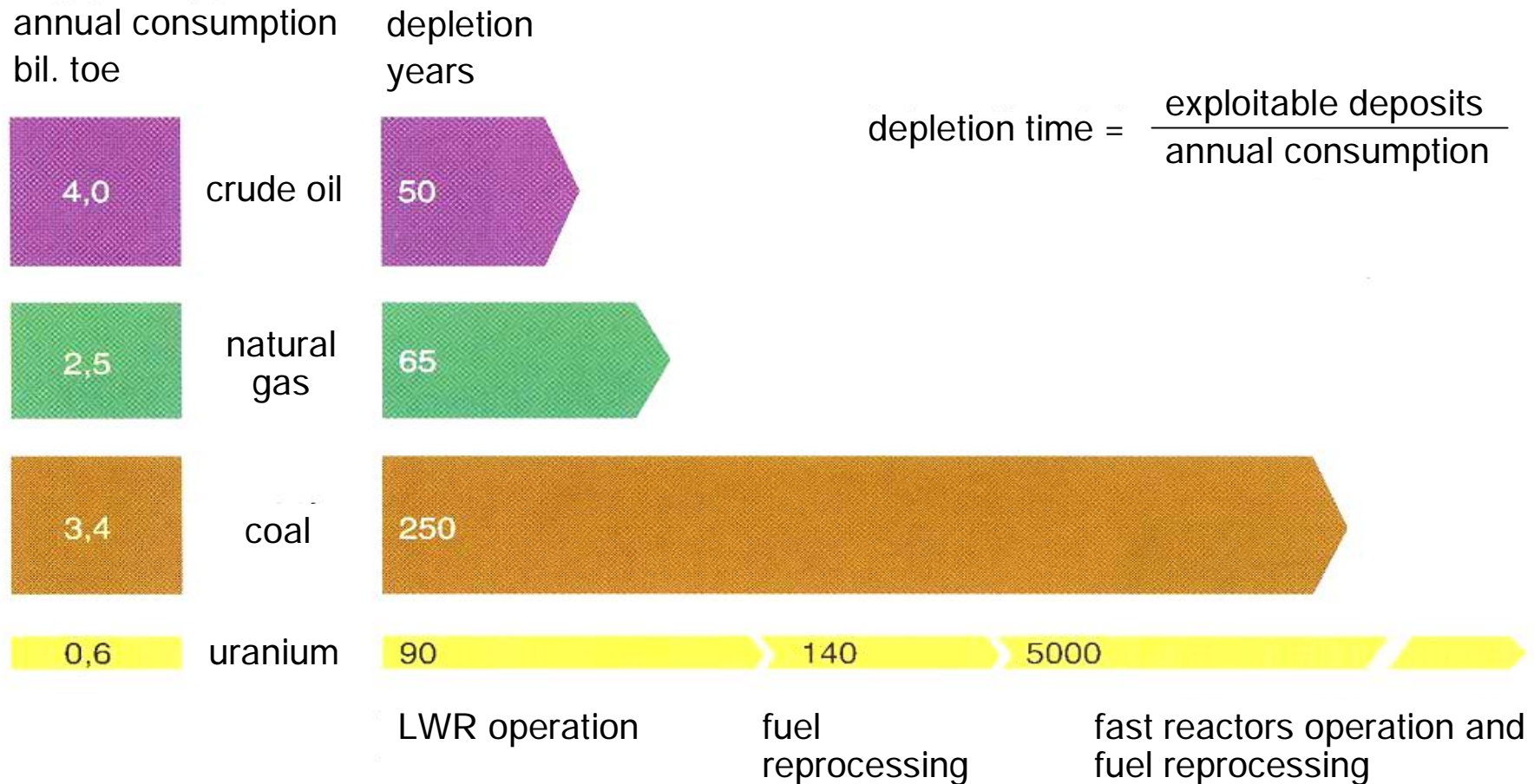
- § National Programme for the Energy Effective Management and the Utilisation of Renewable and Secondary Sources of Energy
- § National Applied R&D Programme
- § National Programme of Emissions Reduction
- § Inhibition Programmes (coal, ore and uranium mining sites]
- § Social Programmes for Employment Reduction in Mining Sector

§ LONG TERM OUTLOOKS

- § Energy Sector Long Term Outlook
- § Indicative Concept of Power Plants Retrofit
- § Indicative Concept of Renewable Energy Sources Utilization
- § Energy Prices Long Term Outlook

Why nuclear energy?

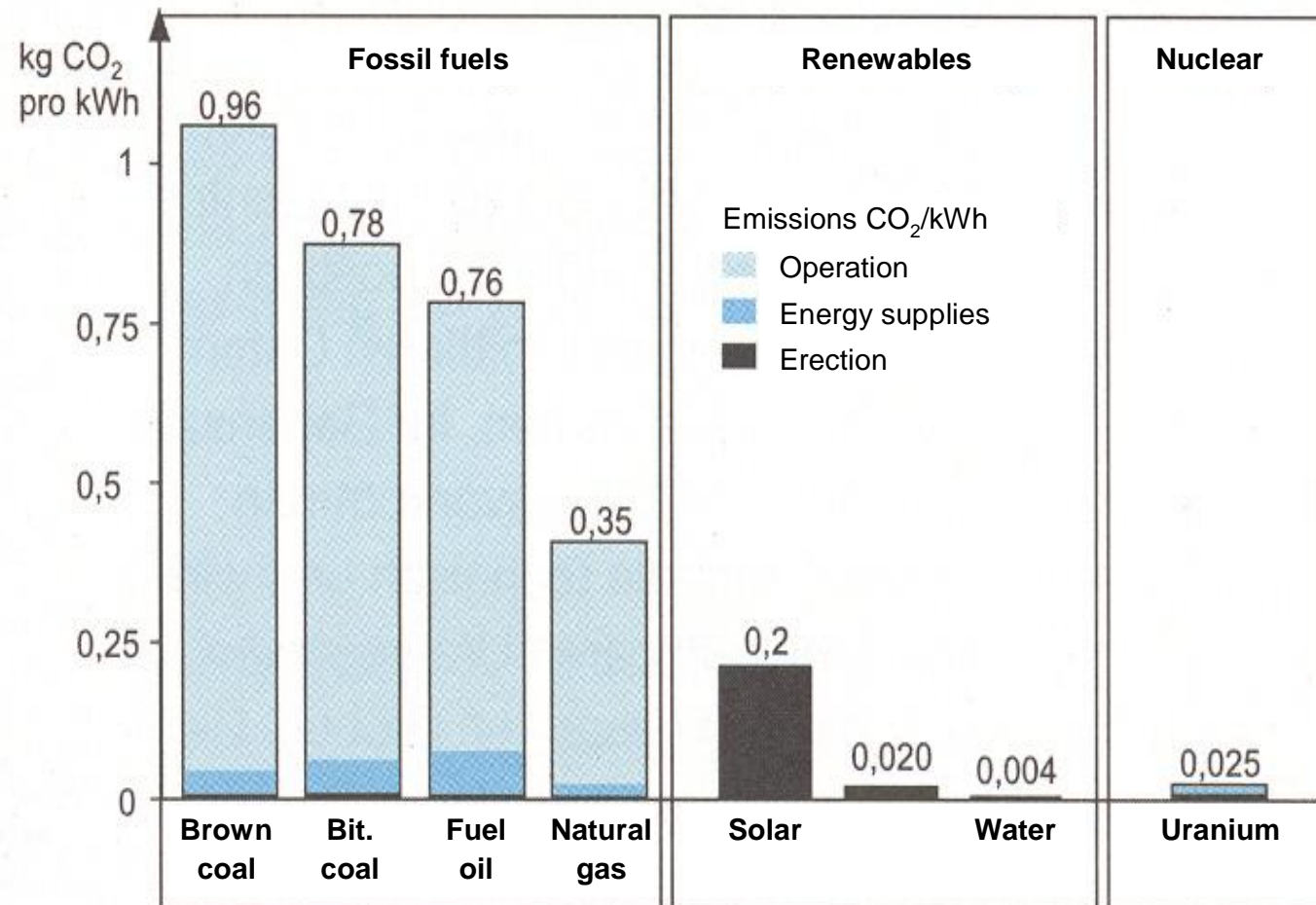
World resources depletion



Why nuclear energy?

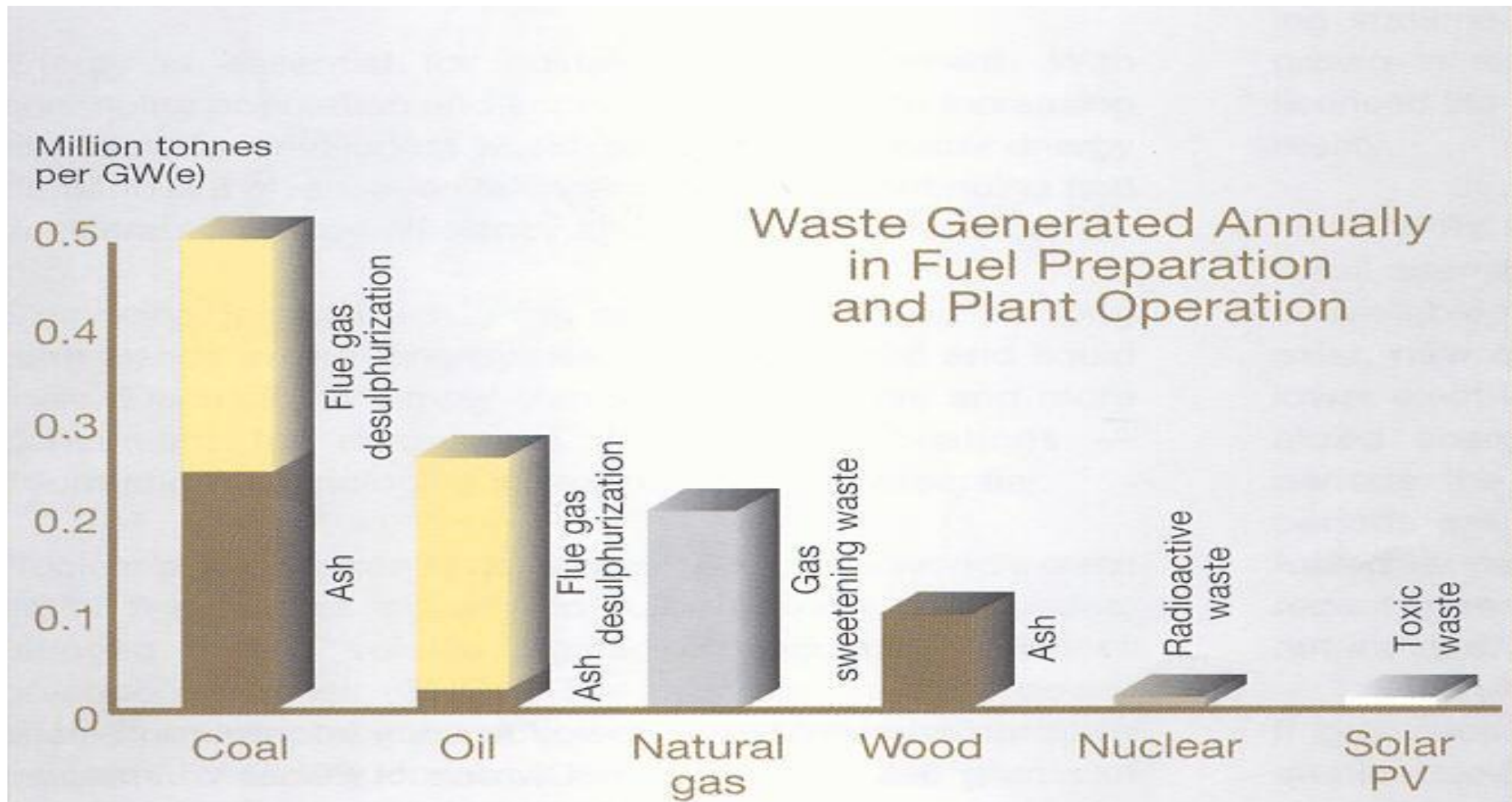
Carbon dioxide emissions

Specific CO₂ emissions



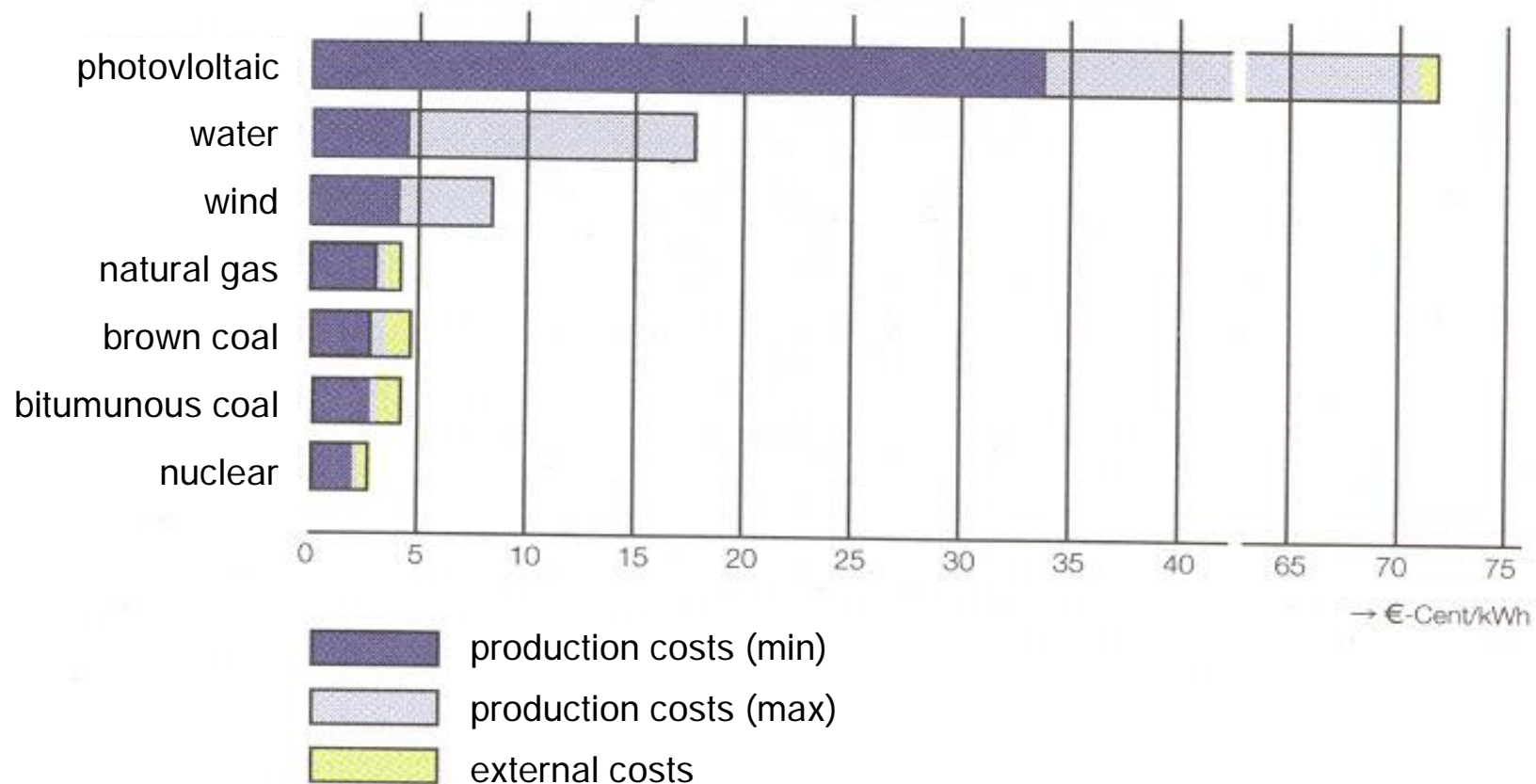
Why nuclear energy?

Waste volume reduction



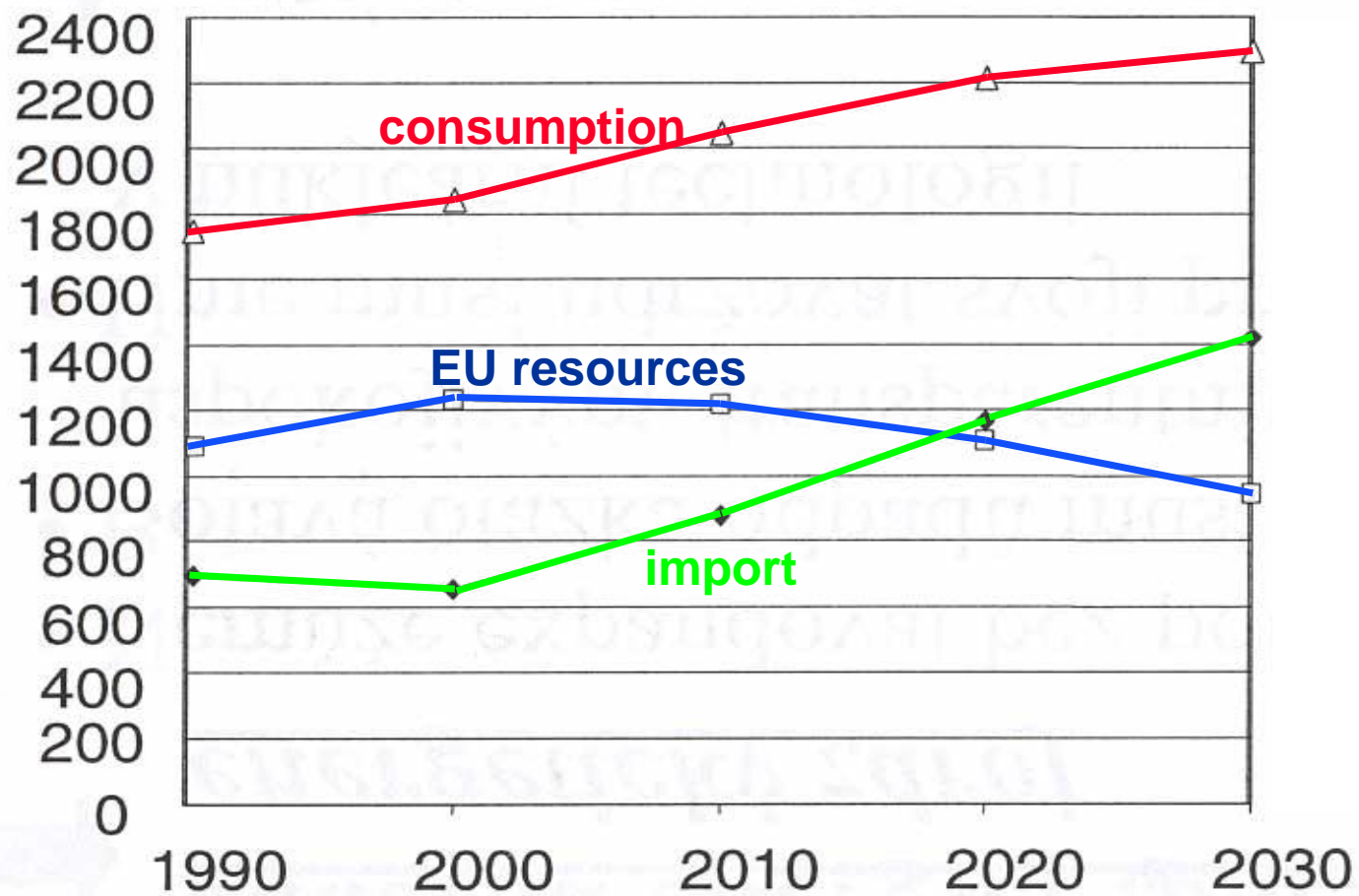
Why nuclear energy?

Production Costs



Why nuclear energy ?

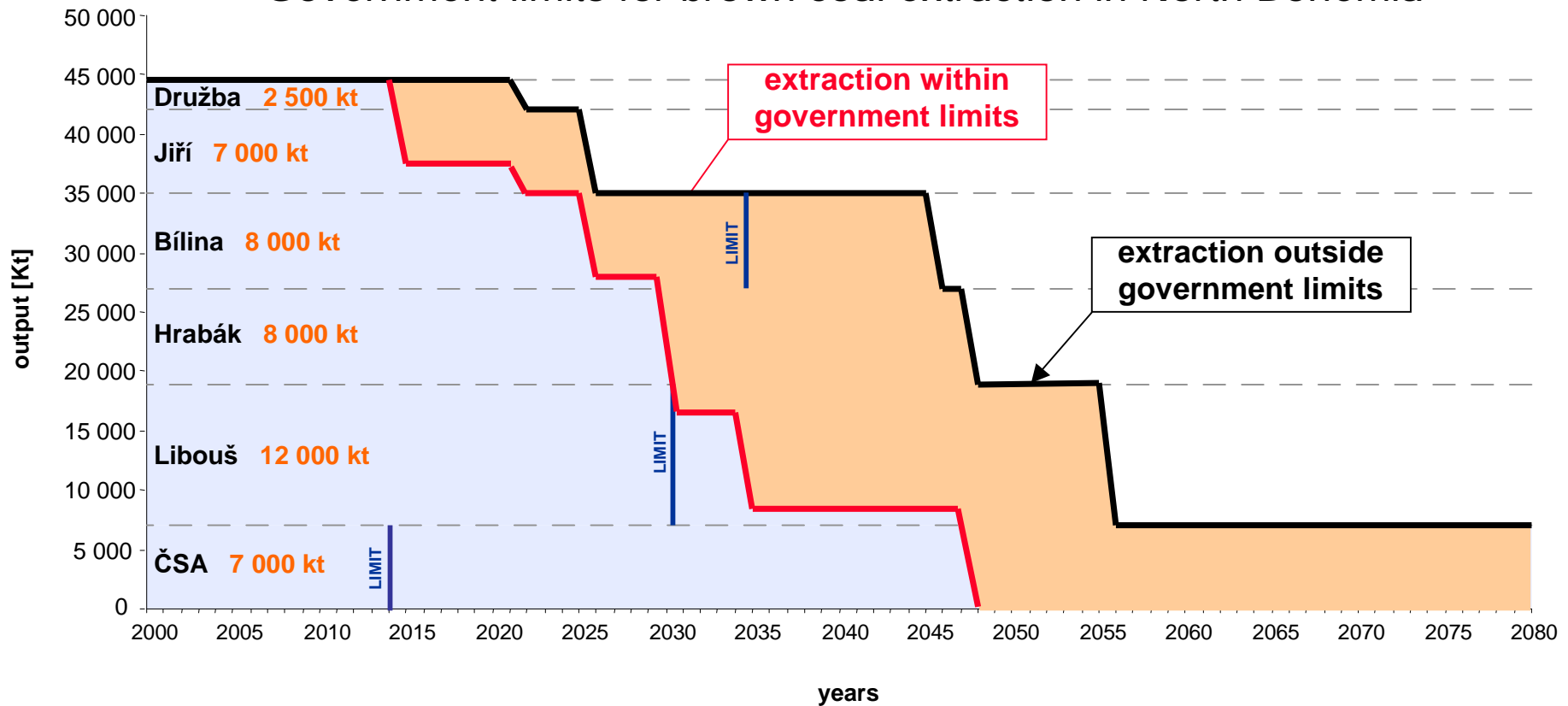
EU import



Why nuclear energy ?

Czech Brown coal deposits depletion

Government limits for brown coal extraction in North Bohemia



Exploitable deposits of brown coal:

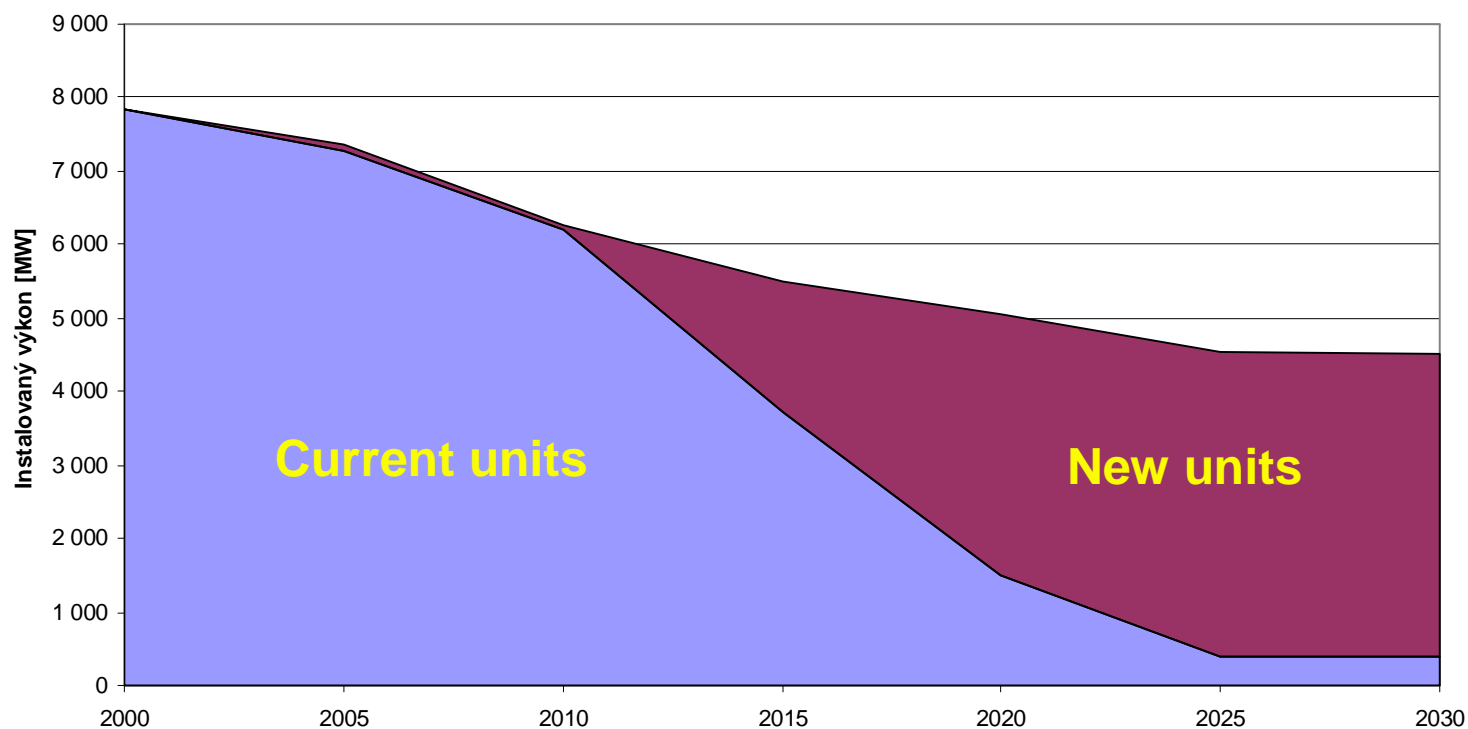
1 200 mil. t within limits

1 293 mil. t outside limits

Why nuclear energy in Czech Rep.?

Brown coal capacity depletion

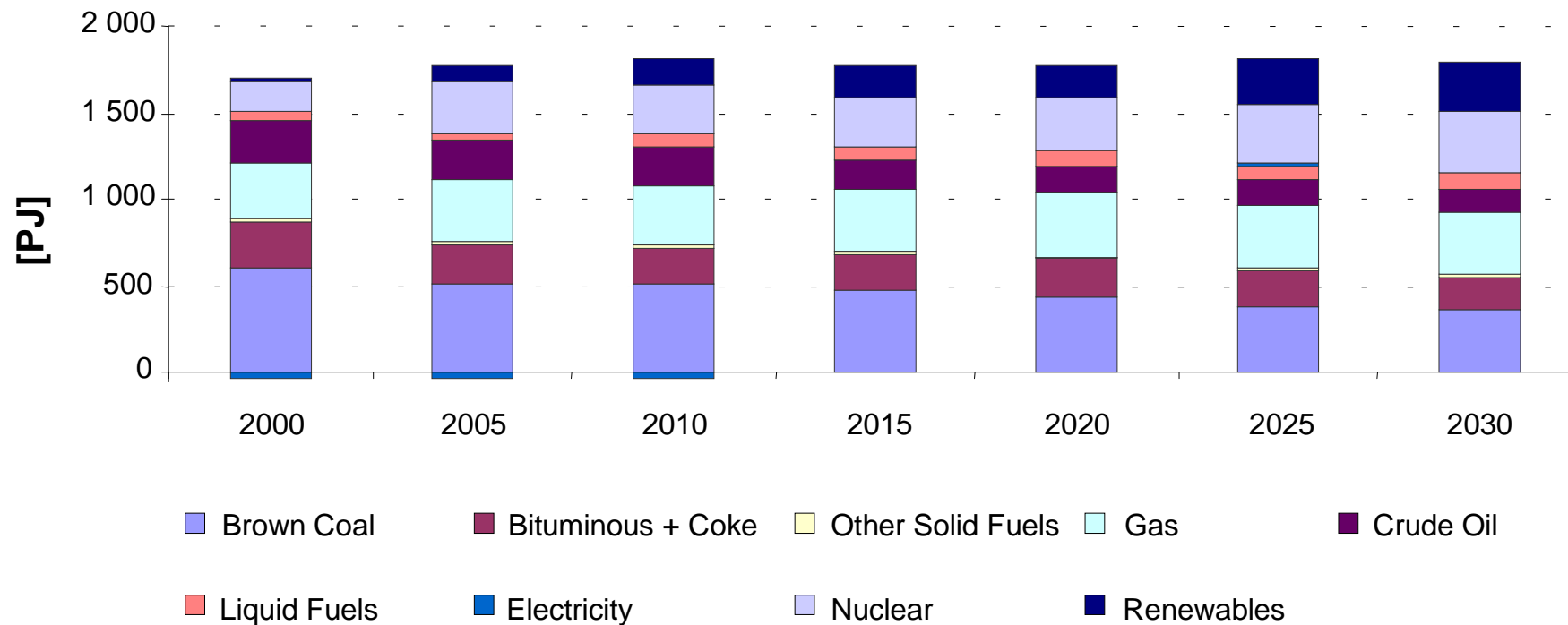
Installed capacity retrofit - Brown coal power plants



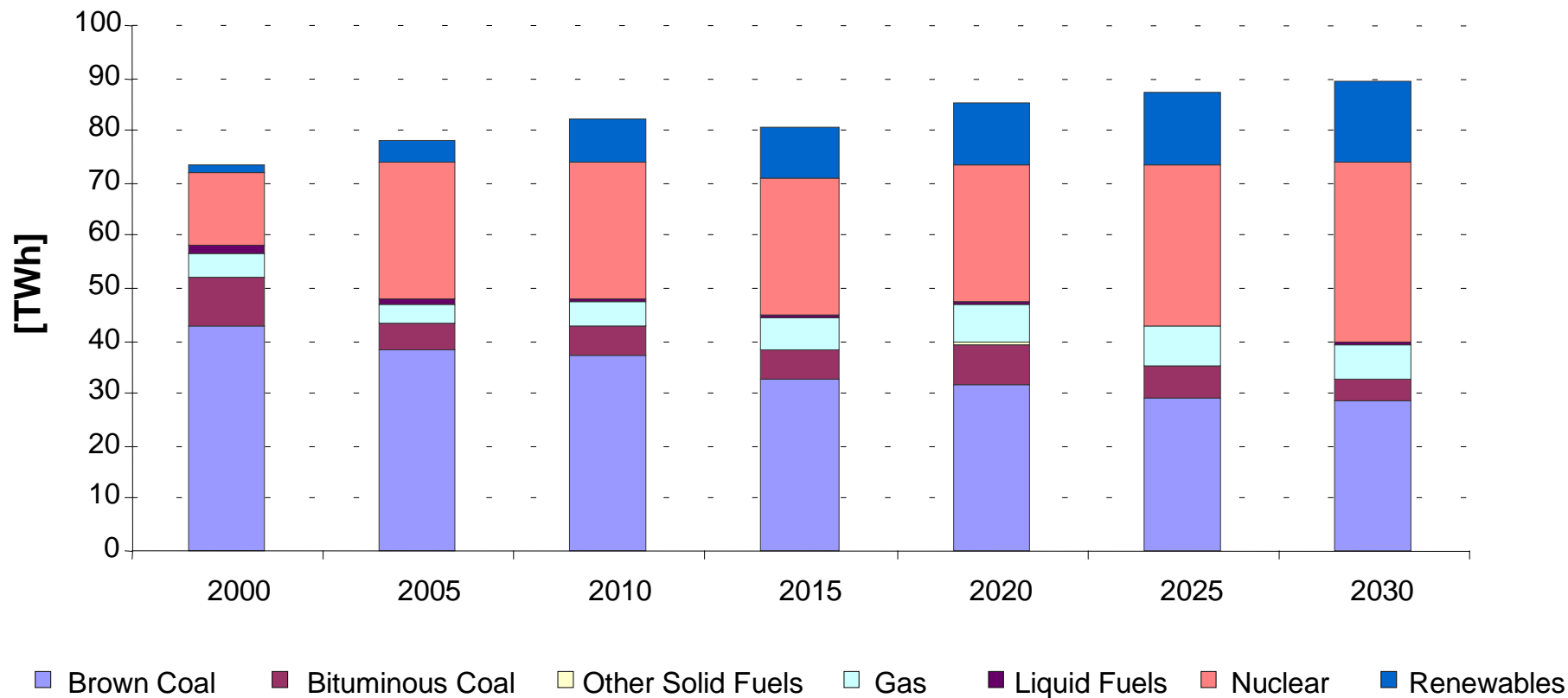
Energy policy

Outlook until 2030

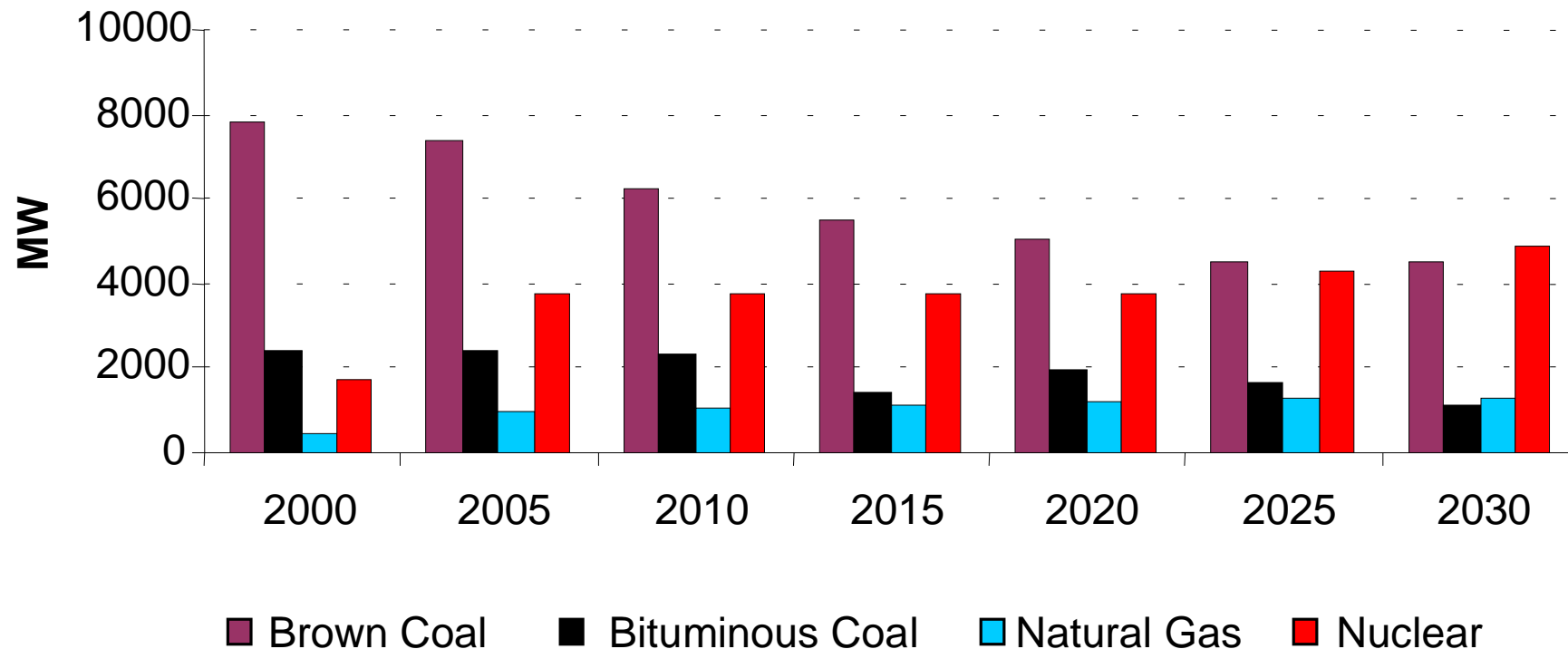
Domestic consumption of primary energy resources [PJ]



Electricity Generation [TWh]



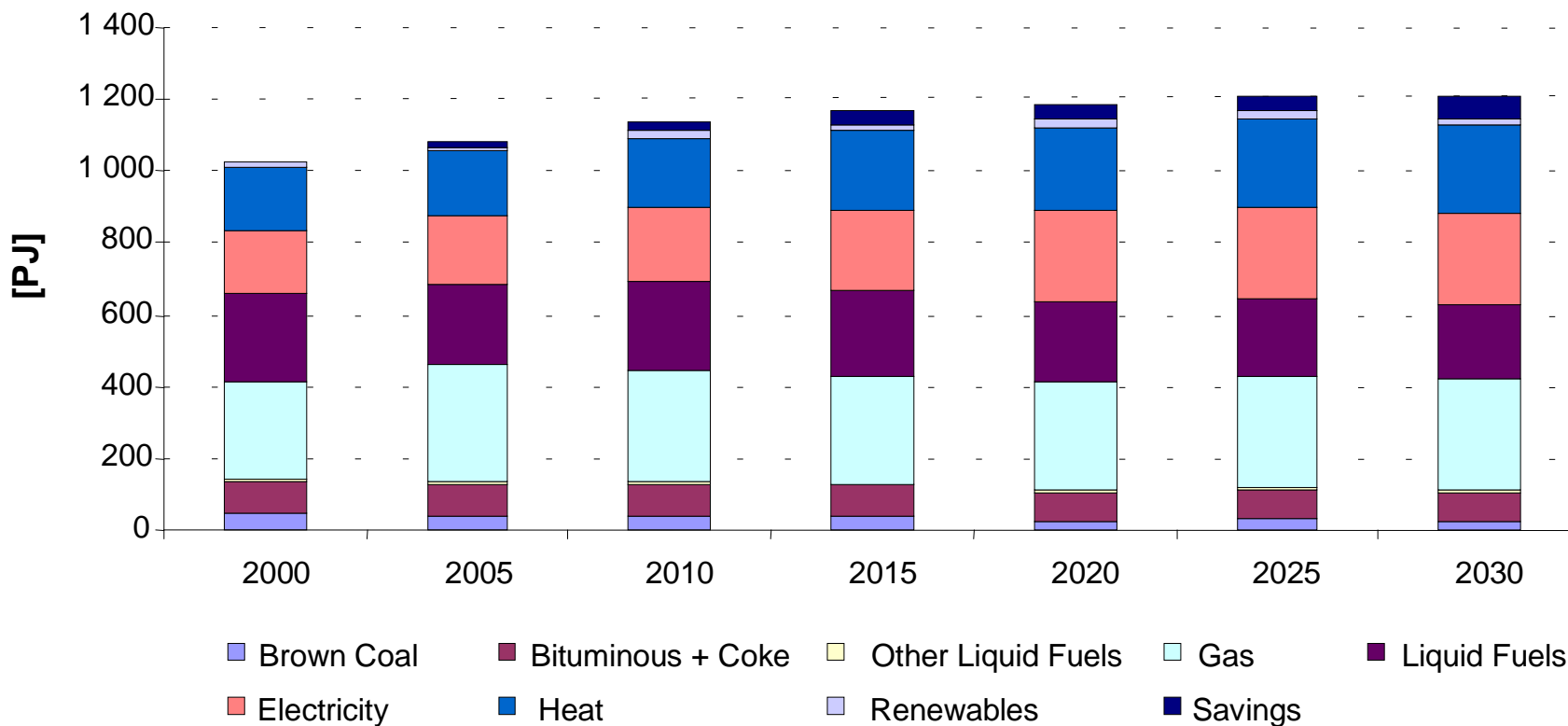
Installed Capacity in the Czech Republic



Energy policy

Outlook until 2030

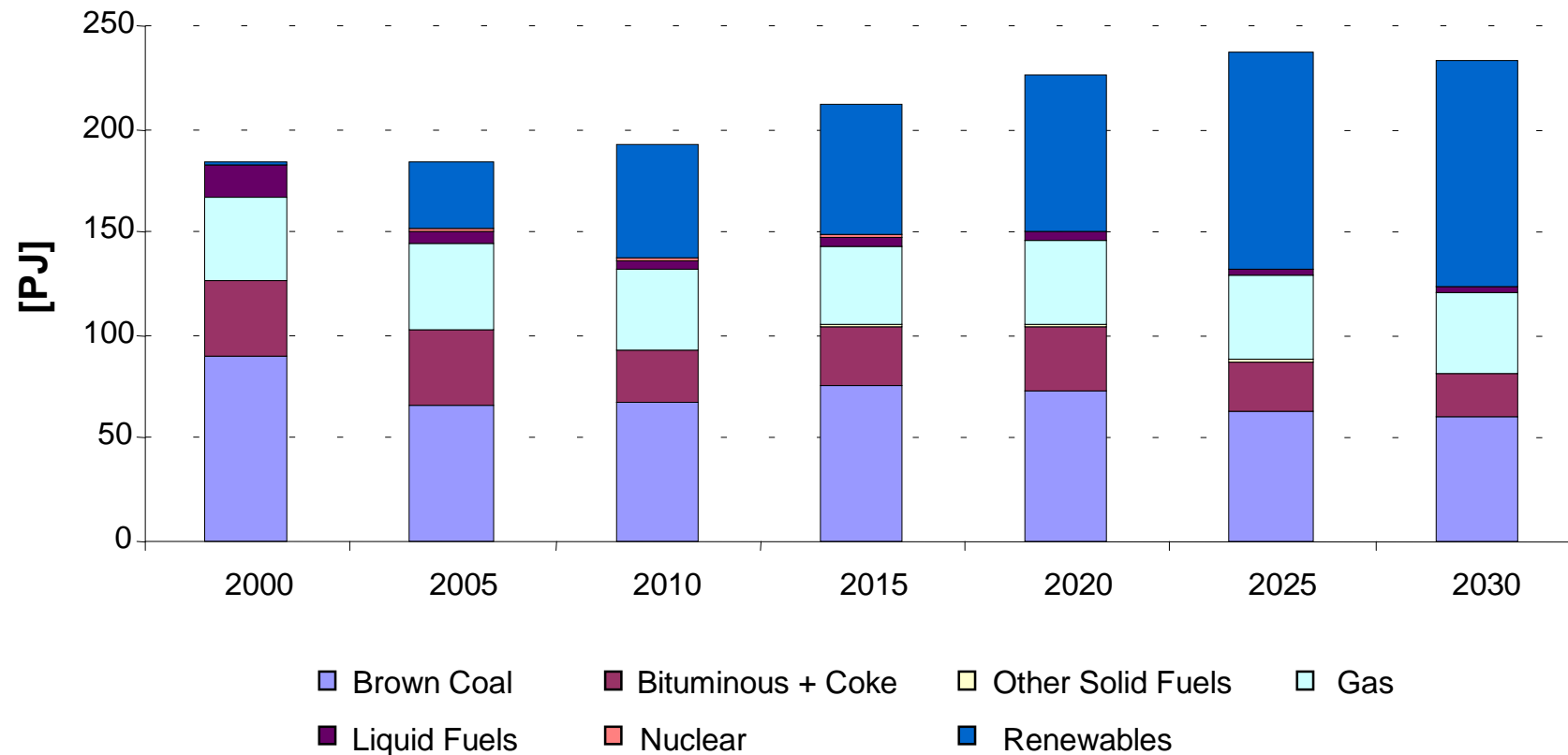
Total Fuel Consumption [PJ]



Energy policy

Outlook until 2030

District Heat Production [PJ]



Energy policy

Outlook until 2030 figures

Share on energy resources consumption	2000	2005	2030
Solid Fuels	52,4%	42,5%	30,5%
Brown Coal	36,6%	29,3%	20,8%
Bituminous Coal	15,8%	13,2%	9,7%
Gas	18,9%	21,6%	20,6%
Liquid Fuels	18,6%	15,7%	11,9%
Nuclear	8,9%	16,5%	20,9%
Renewables	2,6%	5,4%	15,7%

Share on electricity production	2000	2005	2030
Solid Fuels	70,5%	55,5%	36,8%
Brown Coal	58,4%	48,9%	31,9%
Bituminous Coal	12,1%	6,6%	4,9%
Gas	6,4%	4,7%	7,2%
Liquid Fuels	2,2%	1,1%	0,4%
Nuclear	18,4%	33,3%	38,6%
Renewables	2,3%	5,3%	16,9%

**Ladies and Gentlemen
thank you for your
attention.**

www.mpo.cz