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***JI Projects
in the Russian Power Industry***

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RAO UESR on a Country's Energy Sector Scale

Share of power production in RF = 69.4%

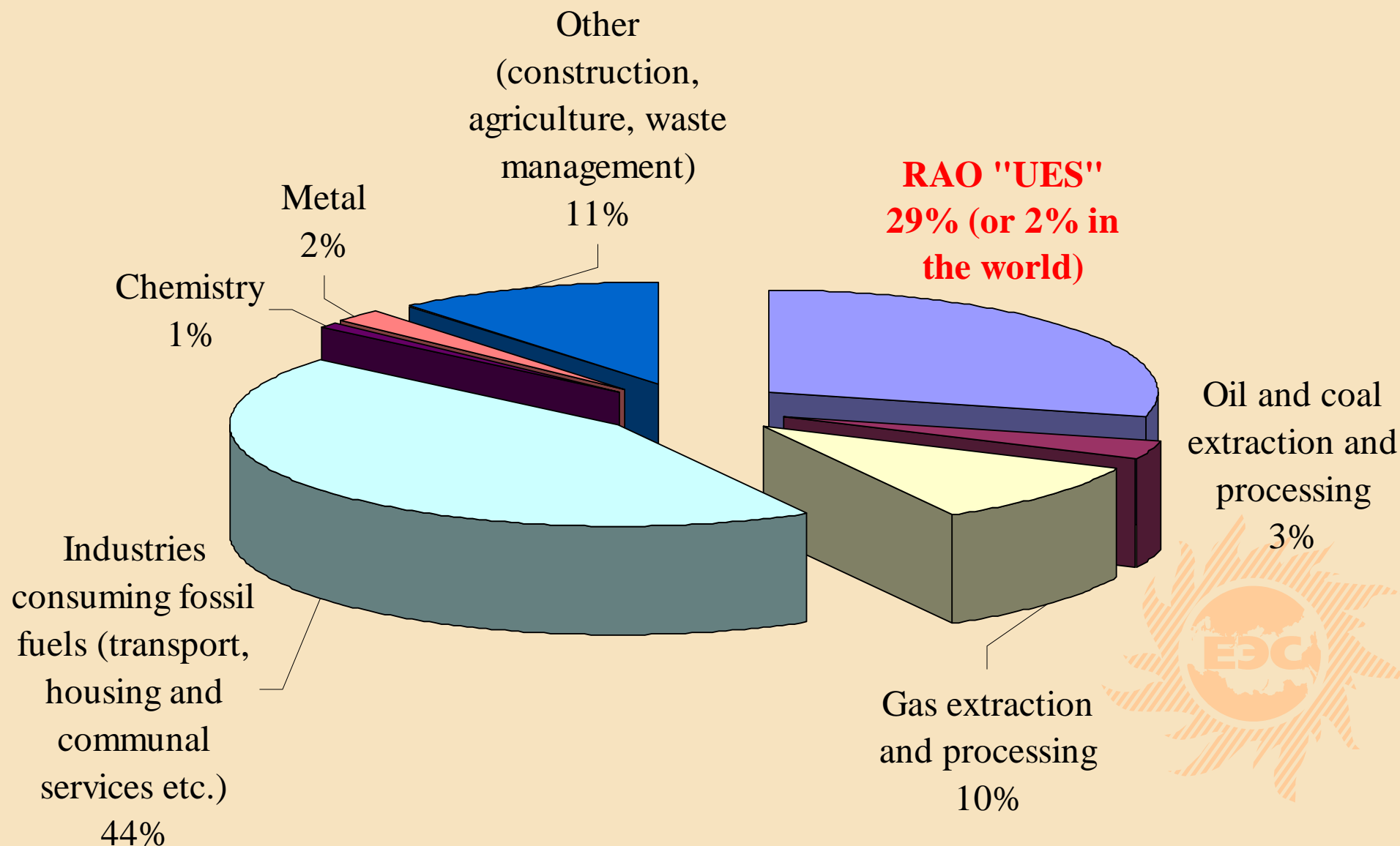
Share of heat production in RF = 32.4%

Installed capacities	= 156.6 GW
Electricity generation	= 635.8 TWh
Heat generation	= 468.8 mln. Gcal
Number of Employees	= 577.6 ths. people

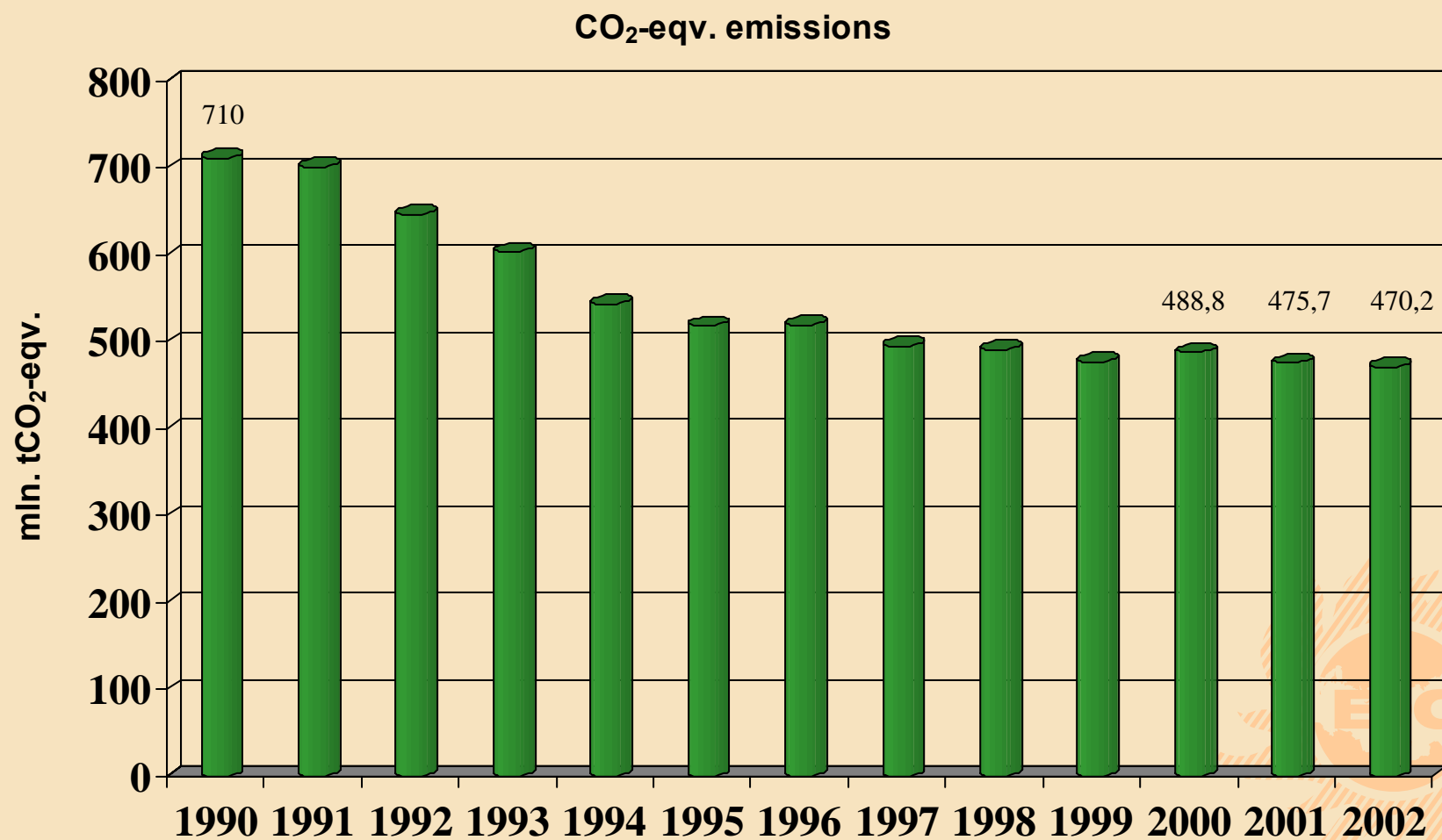


Structure of GHG emissions in Russia

(according to the Third National Communication)



GHG Emissions in the Power Sector according to the Inventory



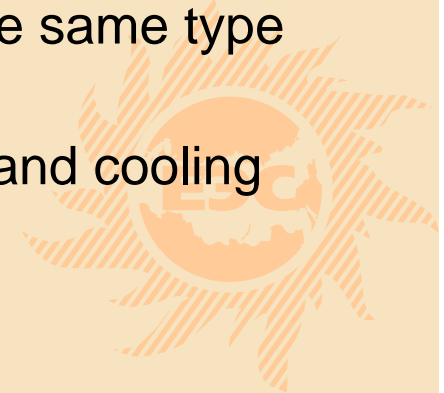
RAO UESR is interested in JI

- **50% of equipment is old and low efficient → need for replacement/refurbishment**
- **Great number of project proposals are facing the investment barrier → additional sources of financing needed**
- **67% of gas in the fuel mix → good opportunity for combined cycle technology and gas turbines**
- **Non-conventional renewables are less than 1% in the power mix → good perspective for future development**



Main types of projects under consideration in RAO UESR

- Combined Cycle instead of Steam turbines
- Upgrading TPPs with gas turbines
- Switch from coal/heavy oil to gas
- Improvements in CHP and district heating systems (including decommissioning of old low efficient boiler houses)
- Renewables, including:
 - small and medium hydro power plants (incl. construction of new and rehabilitation of existing)
 - wind power plants (on-shore and off-shore)
 - geothermal power plants, etc.
- Program projects (a number of small-scale measures of the same type united in one program), such as:
 - small steam turbines instead of steam pressure reduction and cooling devices
 - variable speed motor drives, etc.



RAO UESR's Carbon Potential

ERUs from JI in 2008-2012	Emission reductions, M ton for the period	Carbon incomes, M Euro
Nearly developed projects	15	90-150
Total potential	100	600-1000



Thank you!

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