



**РОСАТОМ**

ОАО «ТВЭЛ» - российский производитель ядерного топлива

# **Fuel Division SC «Rosatom» - expansion of international cooperation**

***june 2010***

# Nuclear Energy. Benefits

## Limitations of traditional energy sources

### CO<sub>2</sub> Emissions



Thermal power plant

### The risk anthropogenic disasters



Oil spill

## Limitations of renewables

### Instability in the power generation



Solar power plant at night

### High cost kWh

Production costs 1 kWh\*

Solar PP ~ \$ 0,4

Wind PP ~ \$ 0,1

\*«Рынок Электротехники»,  
№ 4, 2008 г.

## Nuclear energy - the best solution

No CO<sub>2</sub> emissions

High level safety



NPP

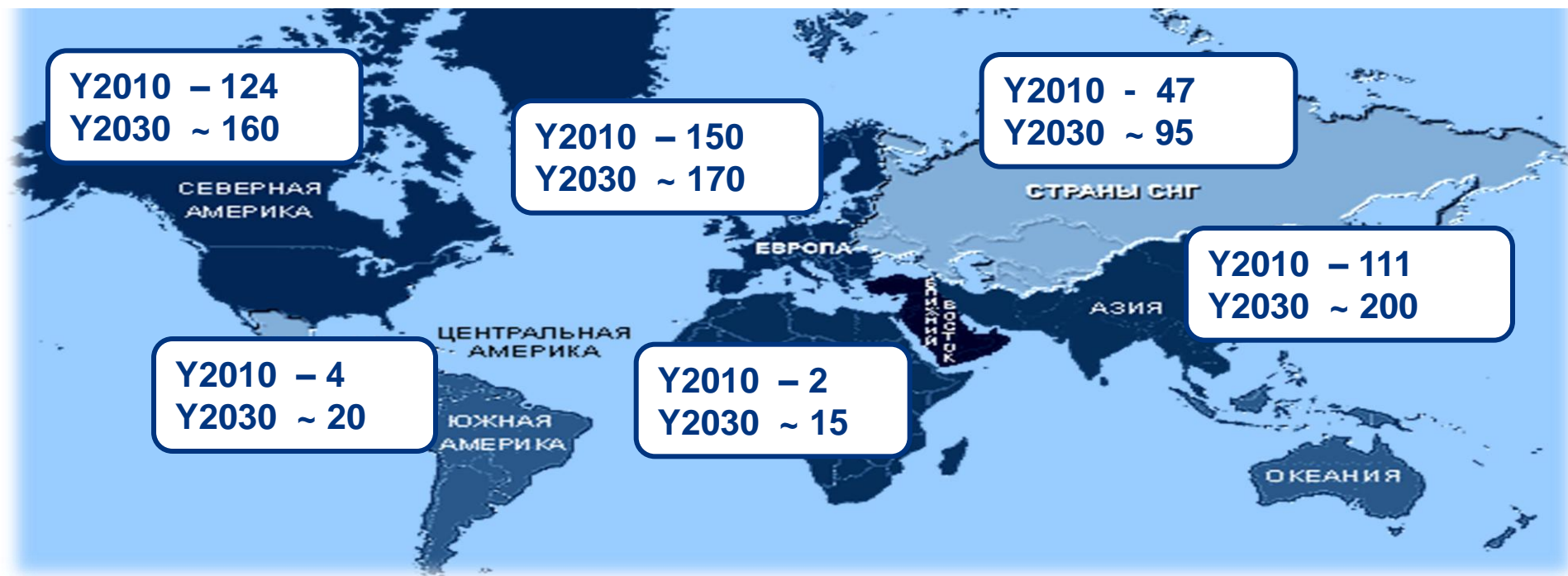
A stable source of high power

Low cost of production by fuel costs

# Nuclear renaissance figures

2010 – 438 reactors

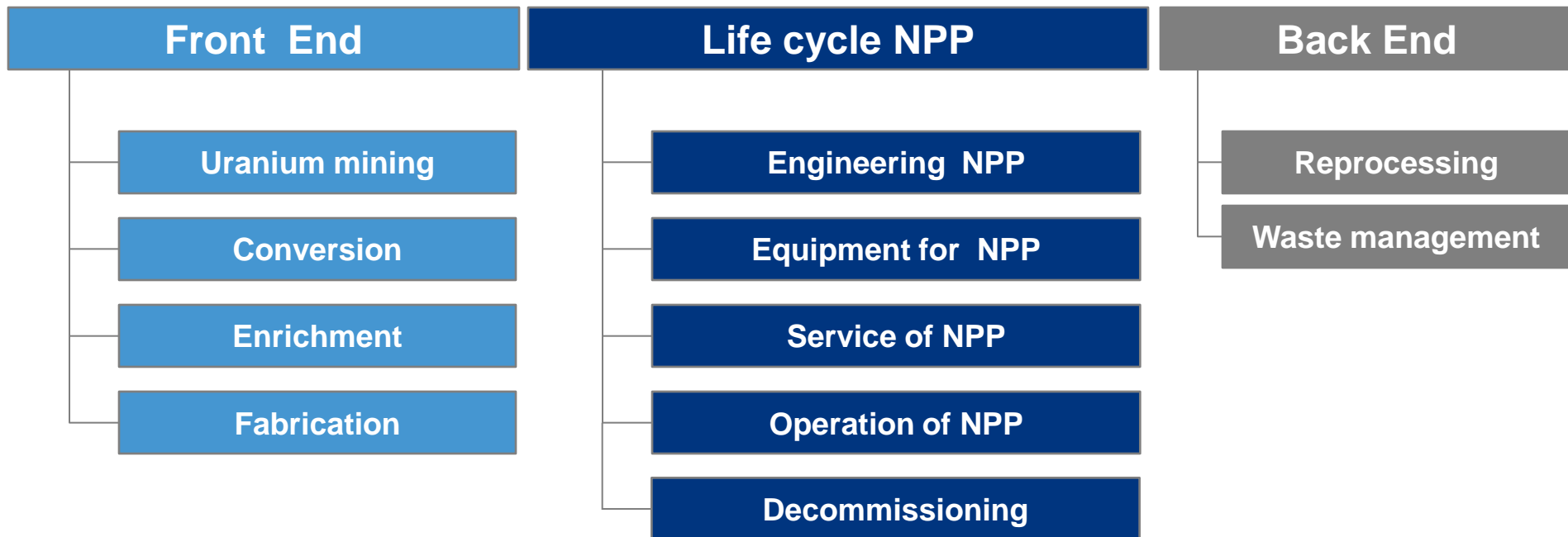
2030 ~ 660 reactors



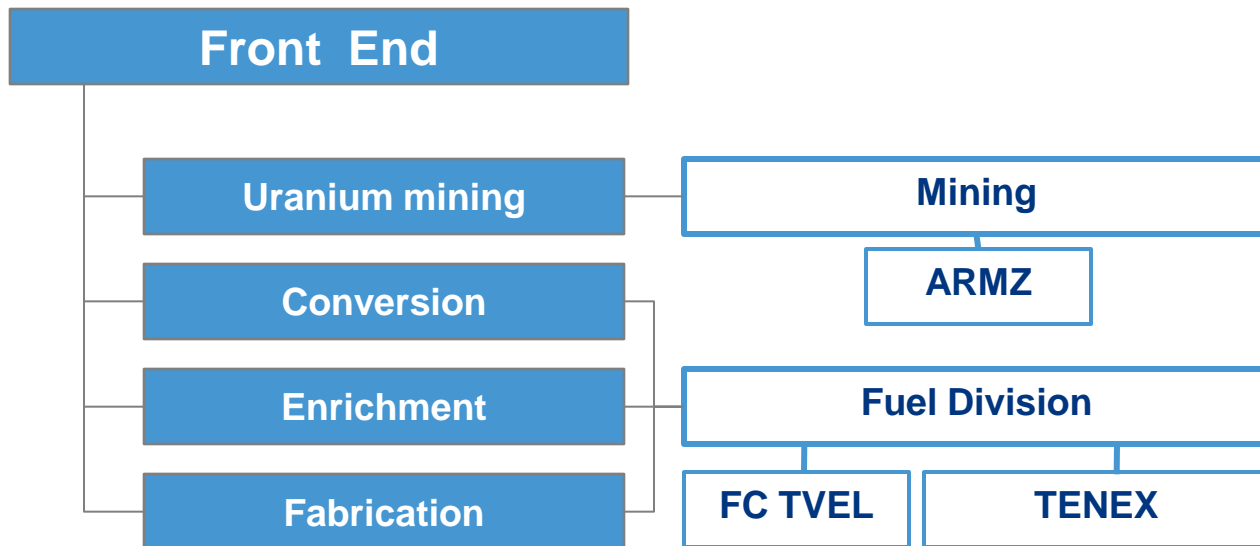
More than 50 countries on different continents announced their intention to develop nuclear power

Source: TVEL Database

# SC «Rosatom»: availability of competence across the whole spectrum of the nuclear industry



# Front End. Divisional structure.



## Mining

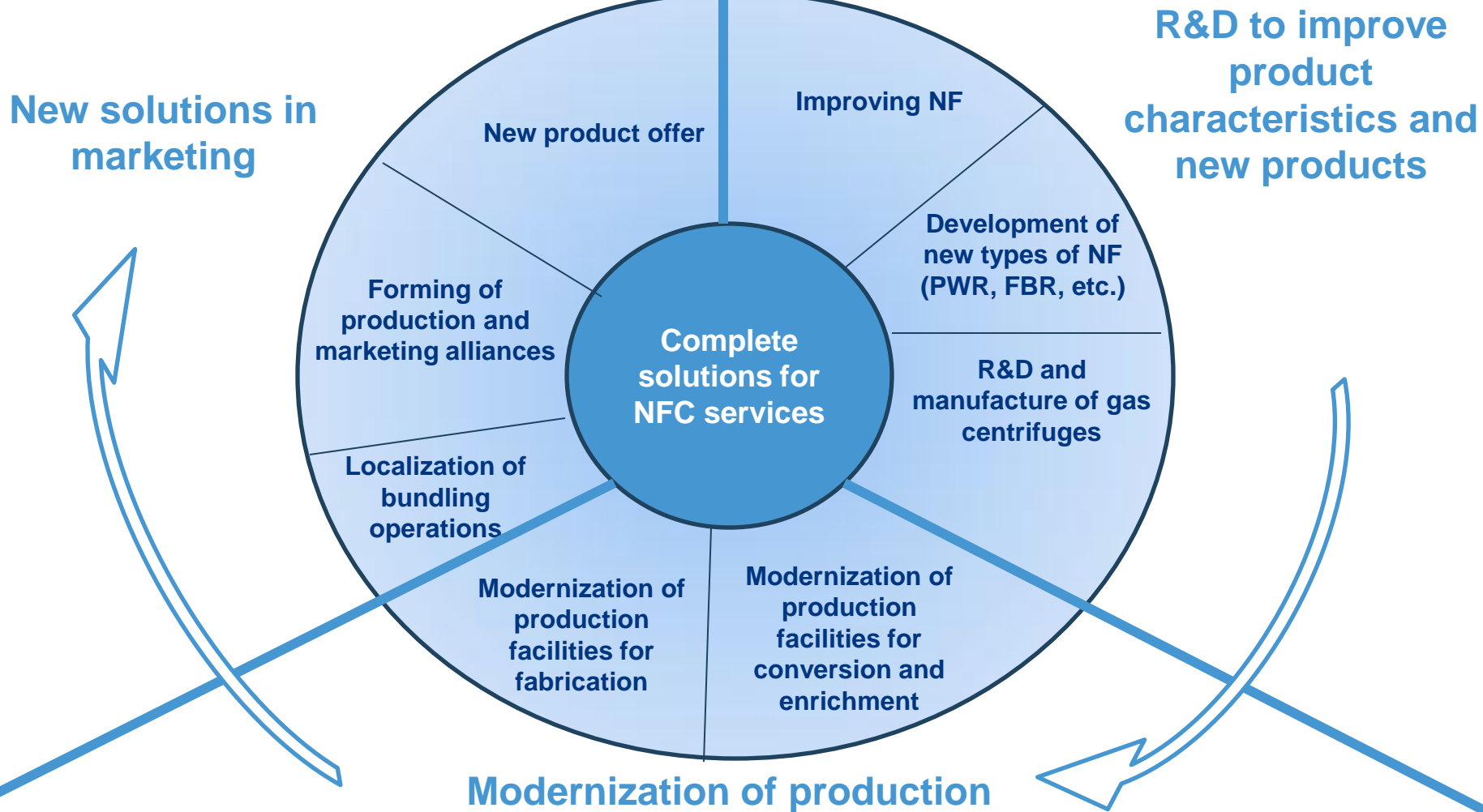
- provides 10% of the world's needs in uranium;
- ranked # 2 in the world uranium reserves

## Fuel Division

- provides ~ 20% of world conversion market;
- provides ~ 45% of the world enrichment market ;
- provides 17% of global fabrication (76 reactors in 15 countries)

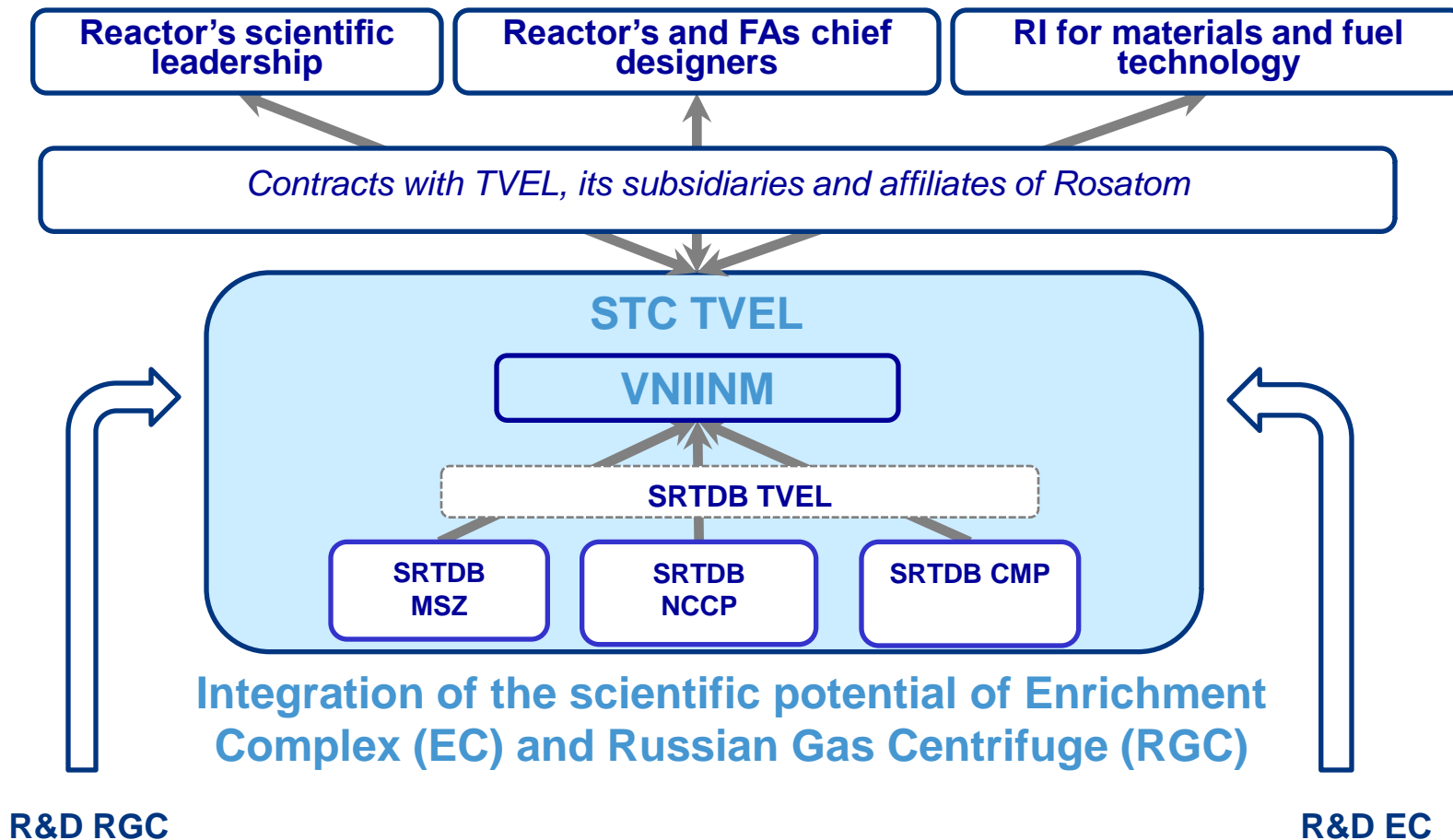
- ✓ Focusing on the priority tasks
- ✓ Concentration of competences to find innovative solutions
- ✓ Synergistic effect

# Fuel Division. Focusing on the priority tasks



# Fuel Division. Concentration of competences to find innovative solutions

## Creating STC



# Fuel Division. Synergistic effect

Logistics optimization



**Optimization of the sites** due to specialization, compaction of the major conversion, the development of high-tech non-nuclear industries



**Optimizing the number of personnel** by combining the non-production and support functions



Reducing transaction costs

1. **An integrated approach to each customer**
2. **Convenient system for product acquisition**
3. **Optimal quality**
4. **Even more competitive price offers**
5. **More investments in safety**



**Thank you for your attention!**