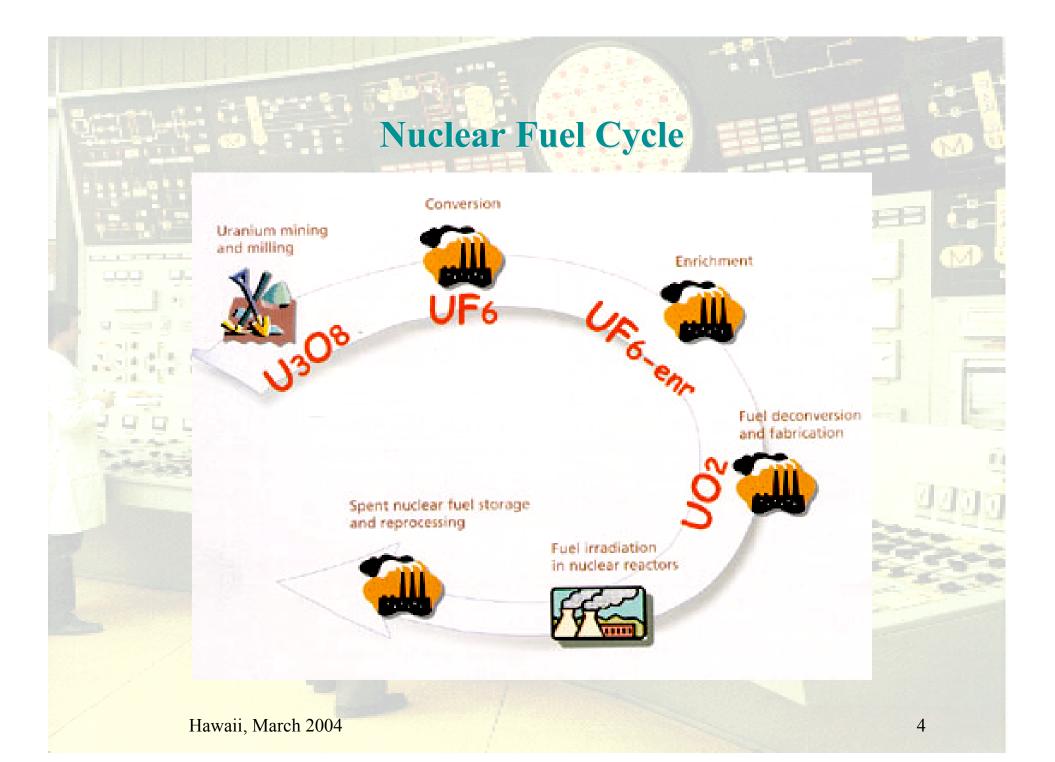


Vast and variety of resources enable Russia to carry out flexible policy in the power sector.

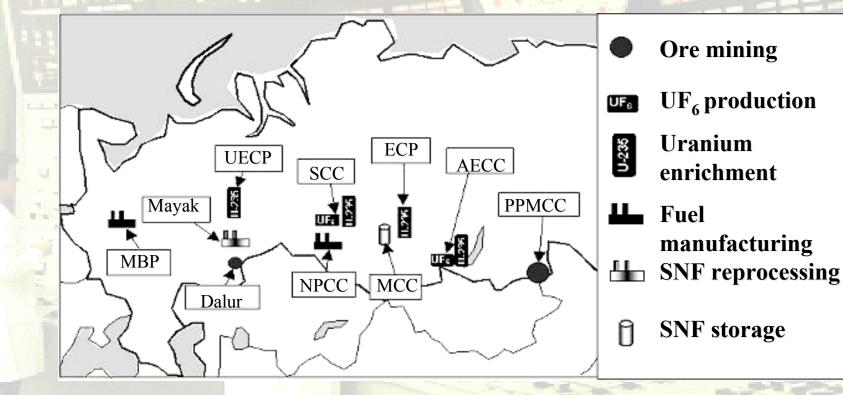
Energy supply of Russia in the 1-st half of XXI century

At the same time expected demand for electric power along with growing share of Russian fossil fuel export inevitably makes Russian nuclear power a key factor of sustainability of the national power system.

- **Conditions for Russian nuclear power development**
- continuous increase of electric power demand in the forthcoming decades;
- competitiveness of nuclear electric and thermal power against fossil fuel power including sources to be possibly developed in the medium-term perspective;
 - raw material availability;
 - investment potential and production capacities;
 - environmentally sound and politically acceptable technologies for spent nuclear fuel and radioactive waste management

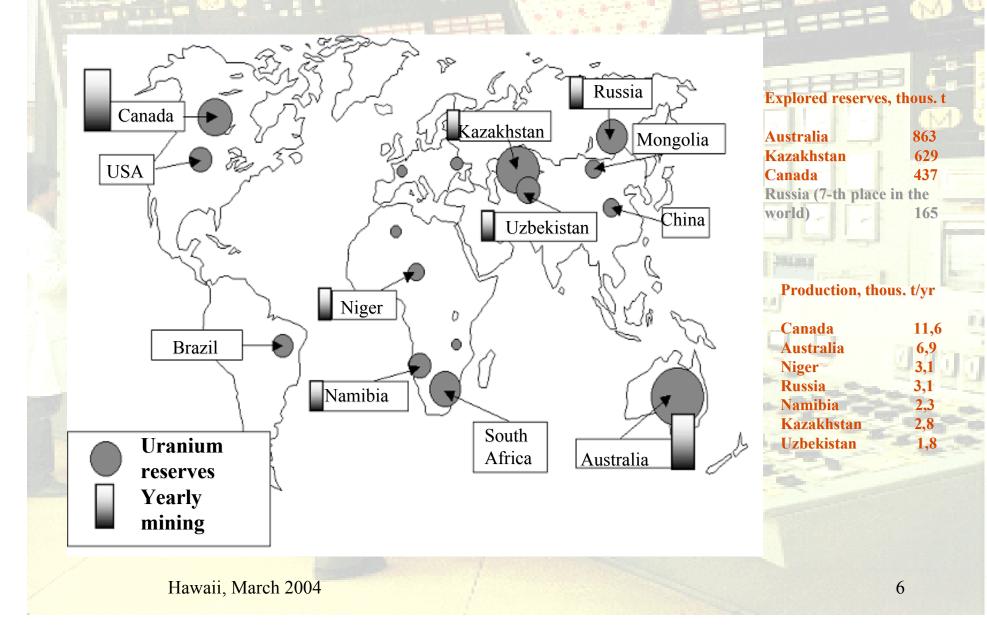


Russian Nuclear Fuel Cycle Facilities



- NFC facility availability
- backup production facilities
- process geography
- production capacities provide for the development
 of nuclear power for 10 year period

World reserves and leading uranium manufacturers



Separation facilities of Russia

«Urals Electrochemical Combine»



«Siberian Chemical Combine»

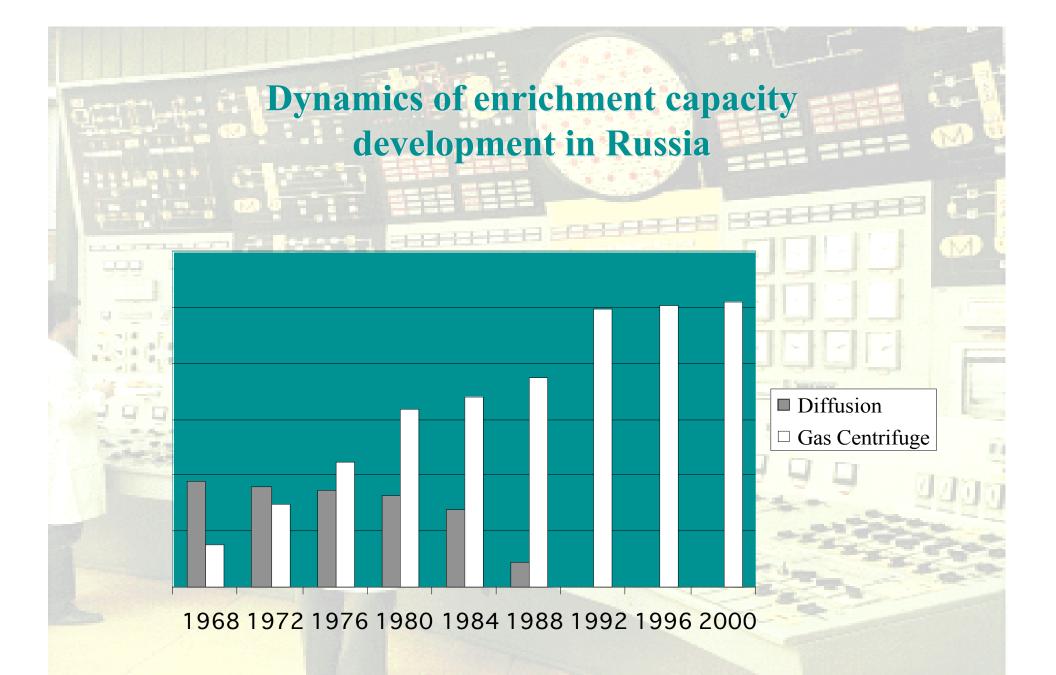


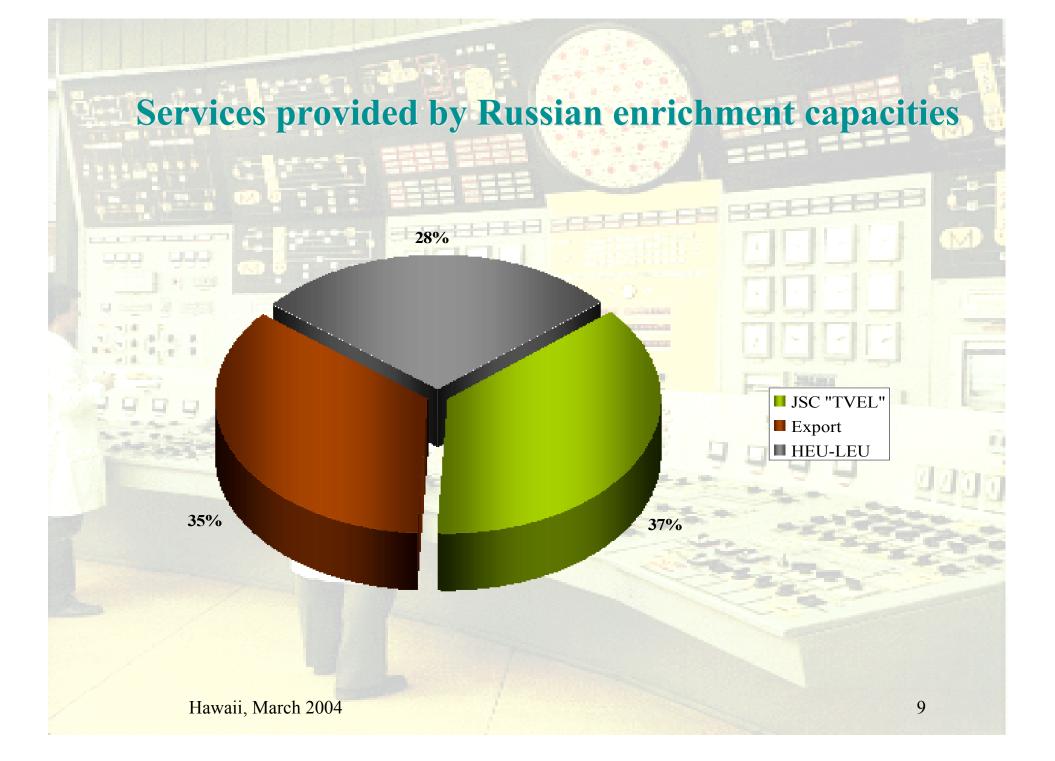


«Electrochemical Plant»

«Angarsk Electrolysis Chemical Combine»









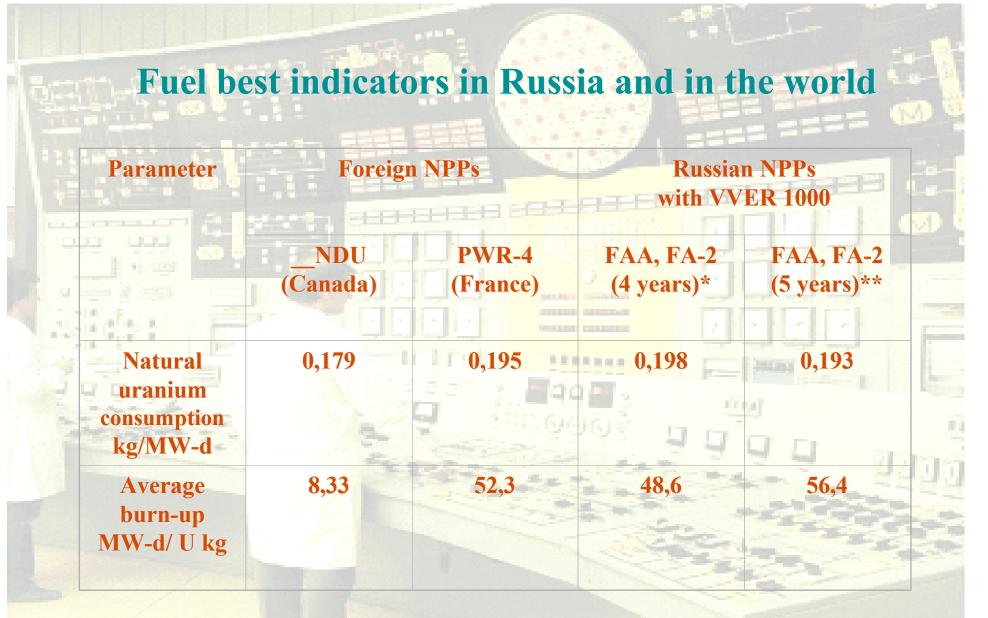
«Machine Building Plant»



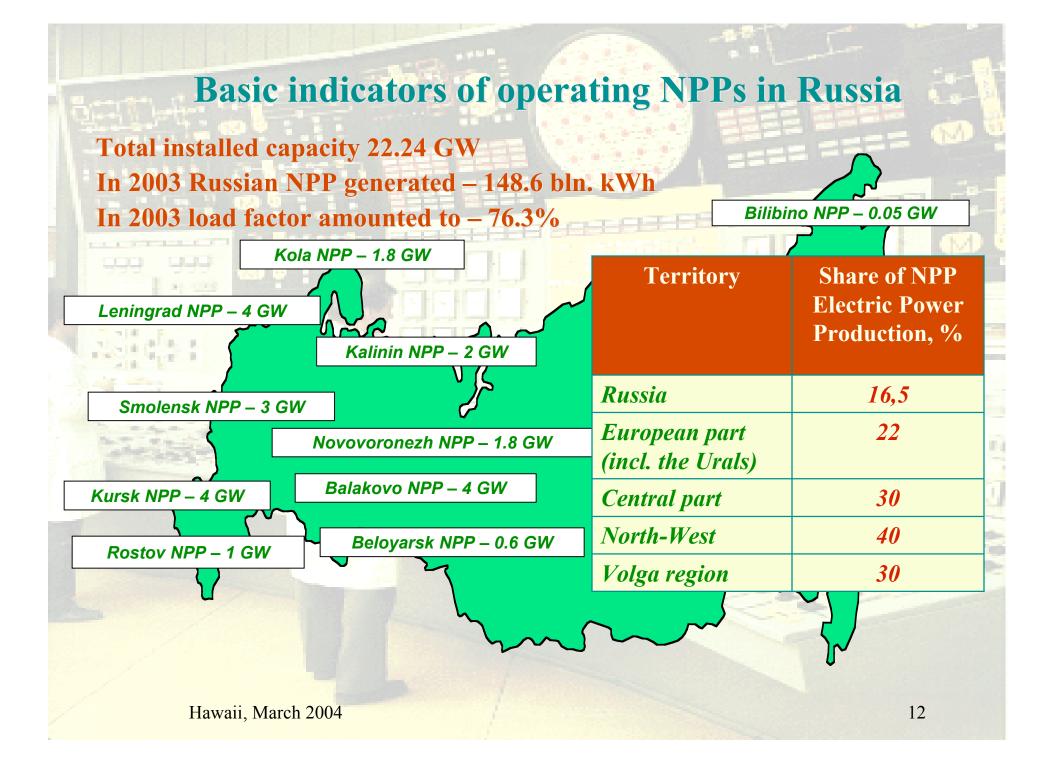




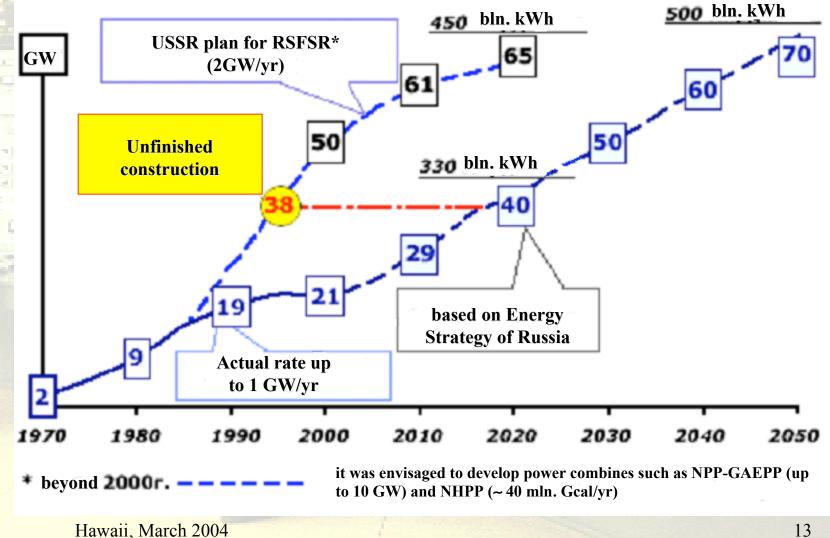
«Novosibirsk Chemical Concentrates Plant»

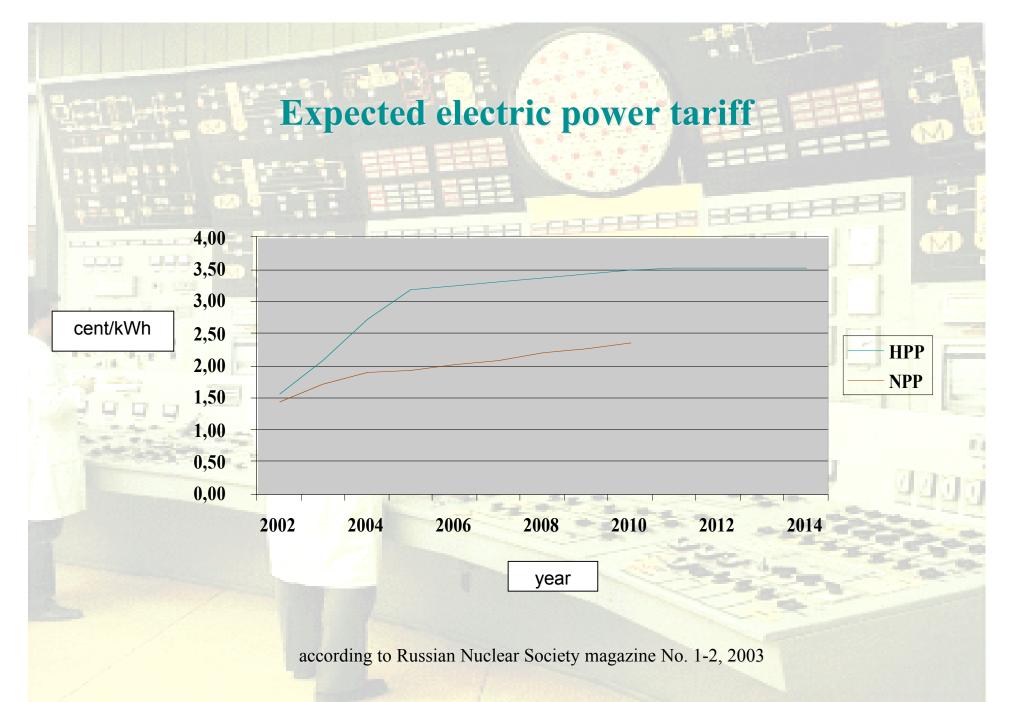


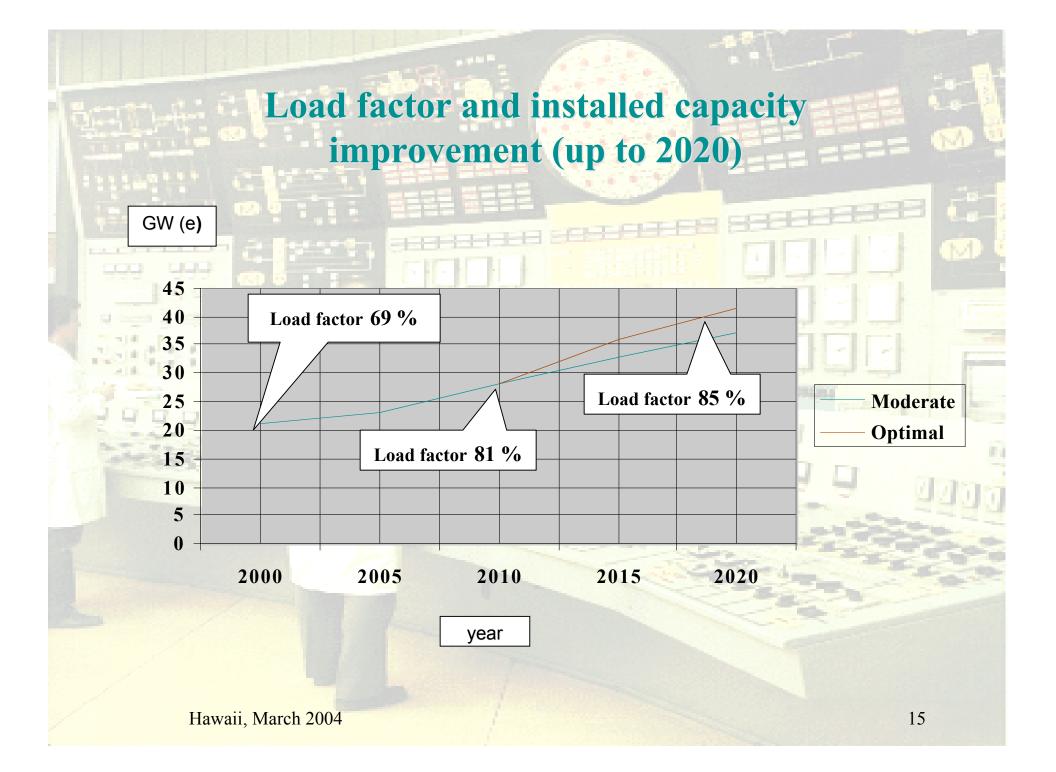
* - industrial scale, ** - design stage



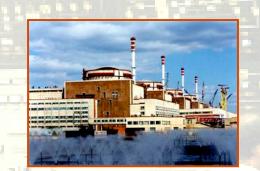
History and perspectives of nuclear electric power capacities in Russia







Russian and foreign NPPs with VVER reactors



Balakovo NPP



Loviisa NPP



Novovoronezh NPP



Kozloduy NPP



Kola NPP



Dukovany NPP



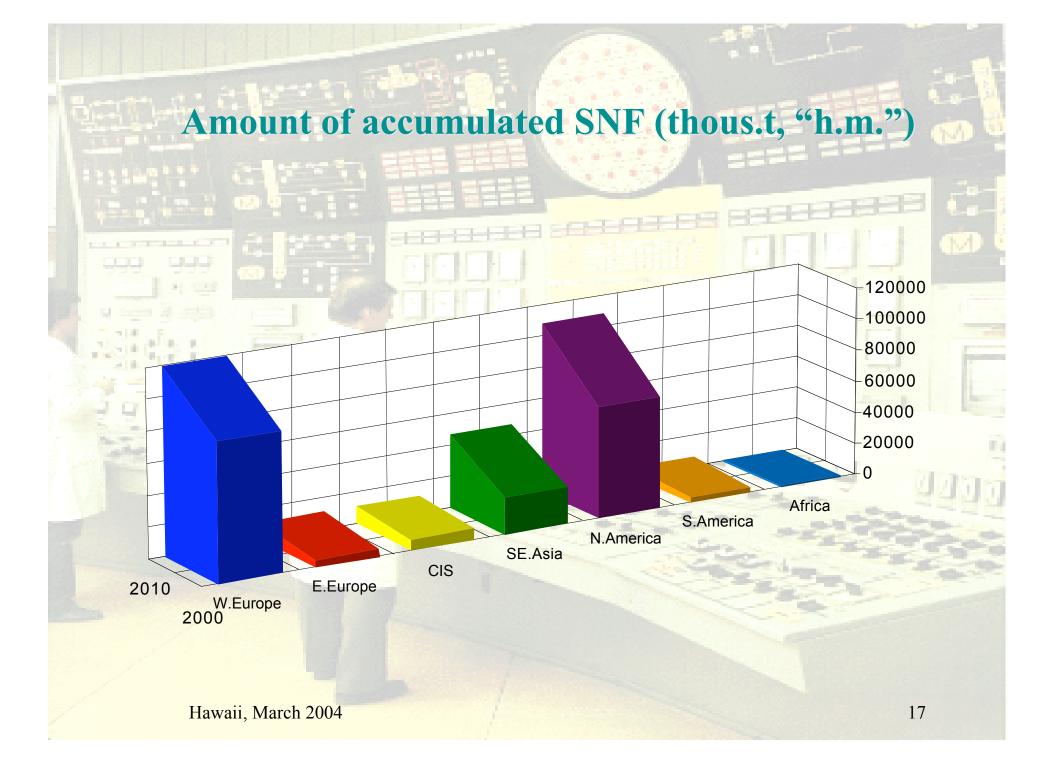
Bohunice NPP

Hawaii, March 2004



Paks NPP

16





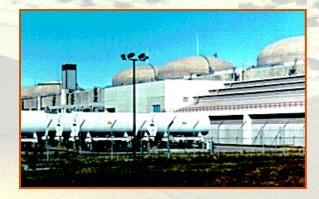


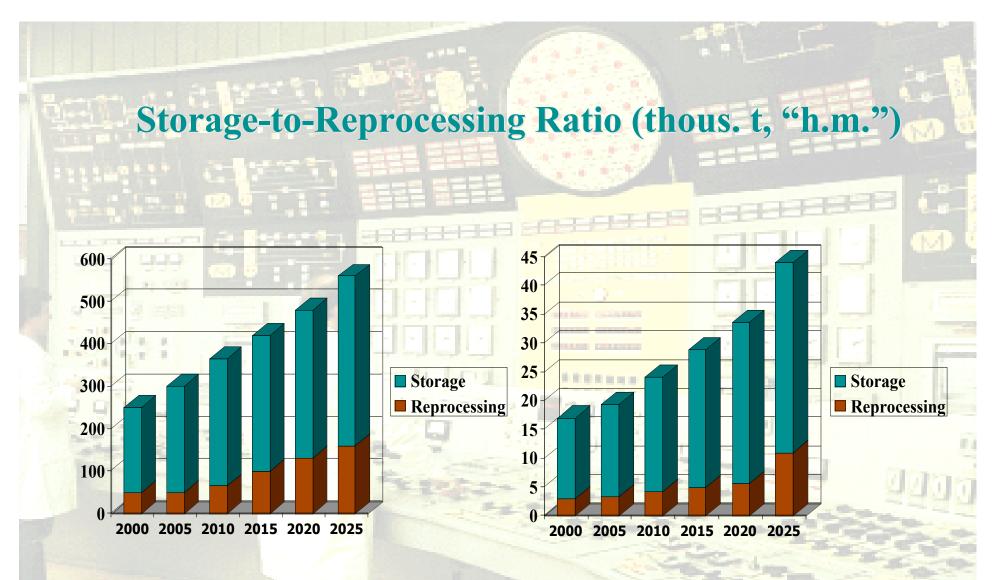
Reprocessing



Direct disposal

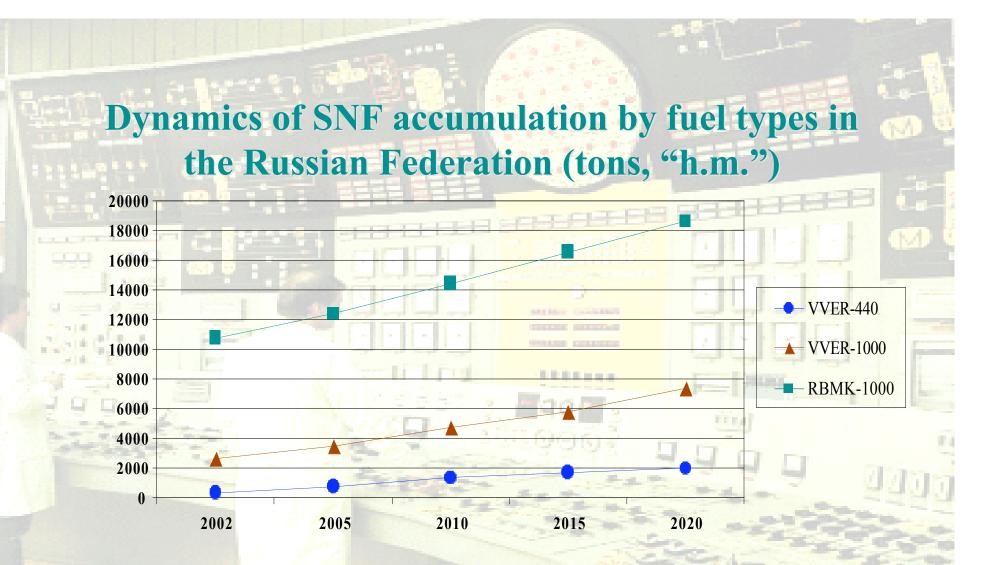
Long-term storage (with put-off decision)





World nuclear power

Russian nuclear power



Today total amount of accumulated SNF generated by NPP in Russia is **14,000 t «h.m.»**, by 2020 – **about 28,000 t «h.m.»**

Development of SNF long-term storage system

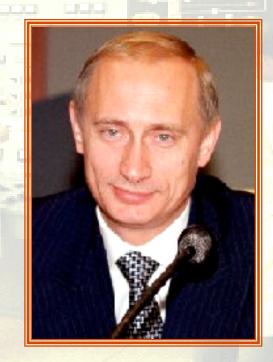
Increase the capacity of existing SNF storage facility for VVER-1000 reactors at MCC up to 9,000 t
Construct "dry" SNF storage facility for VVER-1000 and RBMK-1000 reactors at MCC with capacity of 34,000 t.



Russia's goals at SNF management services global market

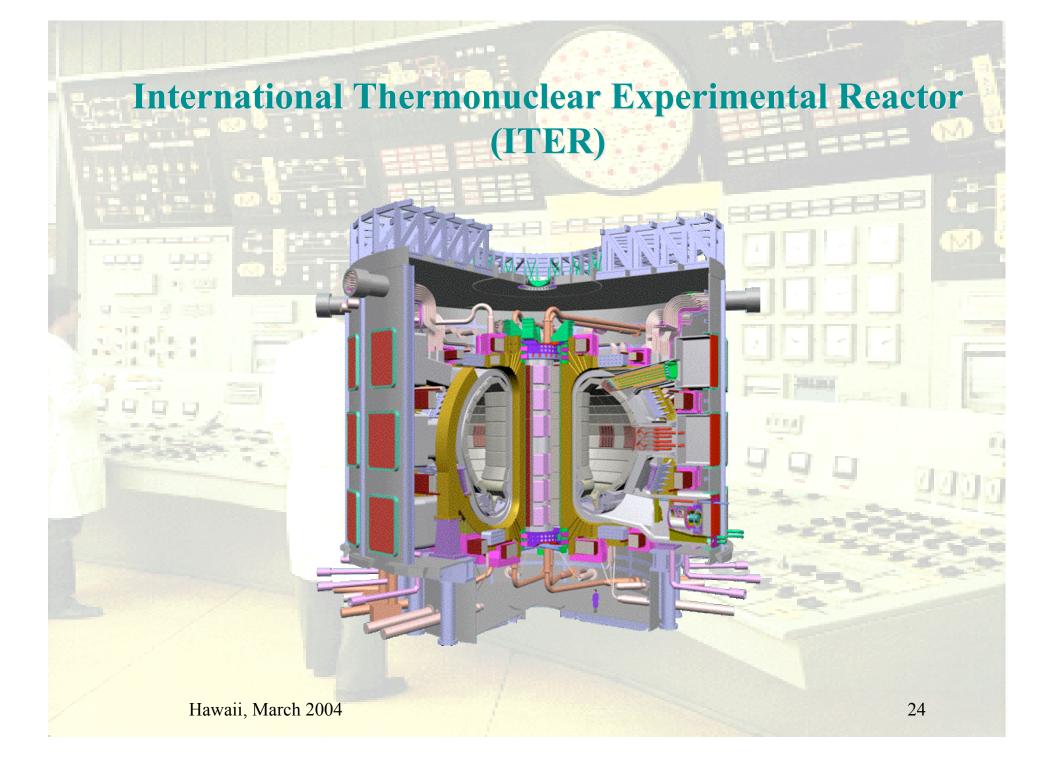
- carry out combined supplies in the field of nuclear fuel cycle
- secure nuclear weapons non-proliferation regime
 secure raw materials for future nuclear power involving recovered uranium and plutonium
- secure financial resources to solve Russian environmental problems resulting from nuclear weapons manufacturing
- develop national infrastructure for SNF management in accordance with international standards
- develop international cooperation in the field of science, technology and industry for SNF management

International cooperation in the field of peaceful use of atomic energy



Initiative of the Russian Federation President V.V.Putin at UN Millennium Summit

to secure energy supply for sustainable development of the mankind, to finally address non-proliferation problems and to enhance the environment of the Earth.



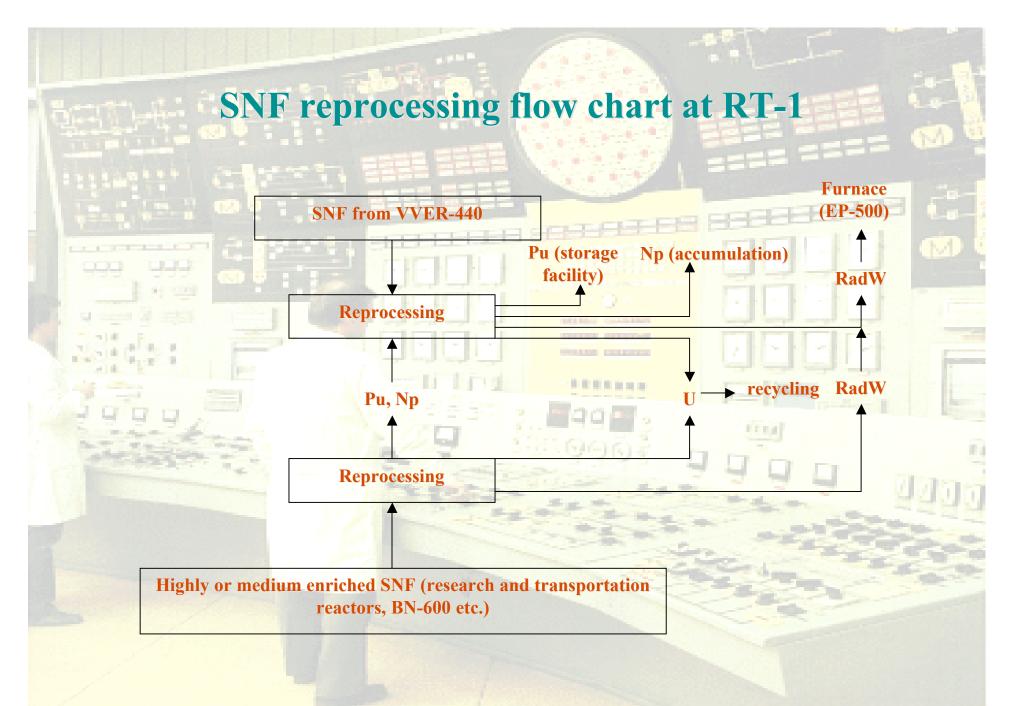
Environmental Policy Basis of Minatom of Russia

The major objective of Minatom's environmental policy is to create the conditions when the facilities achieve the strategic goal of the environmental policy of the Russian Federation in the most efficient way:

- preserve the nature;
- maintain integrity and life support functions of the ecosystems for sustainable development of the community;
- improve the living standards and health condition of the population as well as demography;
- secure environmental safety of the nation.

RT-1 plant modernization as well as implementation of the environmental measures at PA Mayak is a good example of the above mentioned.





	High level	waste frac	tionating	at PA Ma	vak
Year of operation	Reprocessed HLW, m ³		No.	Extracted trans rare earth activity, x10 ³	plutonium and elements activity, x10 ³
1996	210	32,4	7,5		
1998	95	20	4,8	ired and	
1999	62	20,3	1,5	9 1,9	37,0
2000	276	27,3	6,8	125,8	313,8
2001	586	27,0	16,112	290,2	970
Total	1229		36,712	417,9	1320,8
Hawaii, March 2004					27

