



Ministry of energy and mineral resources of the Republic of Kazakhstan



Strategy of Development of Power Sector of Kazakhstan



Balance of the electric power of Kazakhstan

billion. kwt\h

	2008г. (fact)	2009г. (expected)	2015г. (forecast)
Consumption	80,6	77,8	100,5
Manufacture	80,1	78,7	103,45
Deficiency (-), surplus (+)	- 0,5	+ 0,9	+ 2,95



The deterioration of the electropower branch equipment on 01.01.2009

The generating equipment	70%
Electric networks	65%
Thermal networks	80%

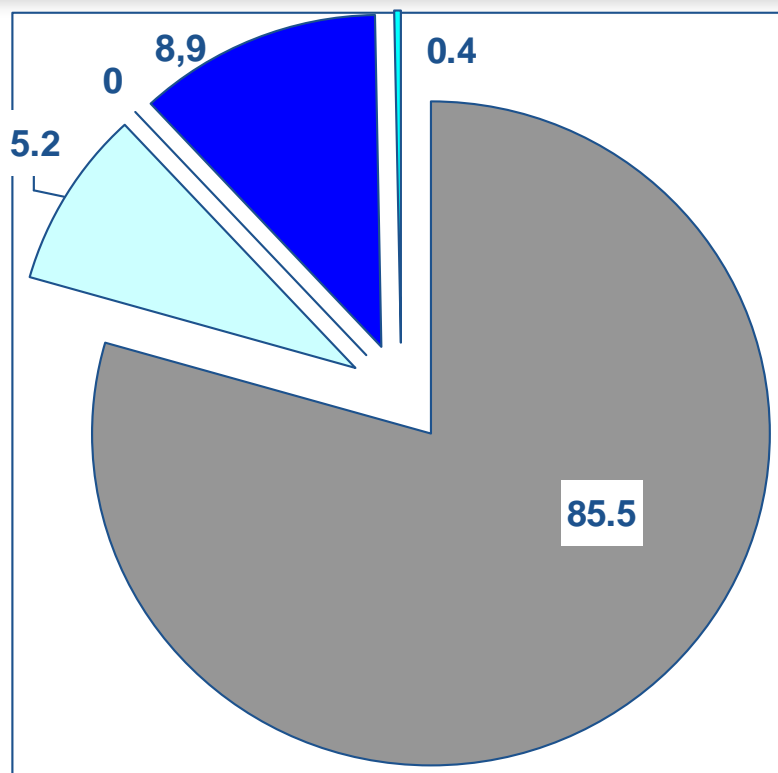


Projects in the field of electric power industry

- **Building gastourbin power stations to Uralsk – 54 MBТ.**
- **Building of Mojnaksky hydroelectric power station – 300 MBТ.**
- **Building gastourbin power station on a deposit of "Akshabulak" - 87 MBТ.**
- **Expansion and reconstruction of the Ekibastuzsky state district power station-2 with power unit installation № 3 – 500 MBТ.**
- **Building Balkhash Thermo Power Plant – 2640 MBТ.**
- **Modernisation and reconstruction of the Ekibastuzsky state district power station-1 – 1500 MBТ..**



Structure of development of the electric power in 2008 Kazakhstan, %

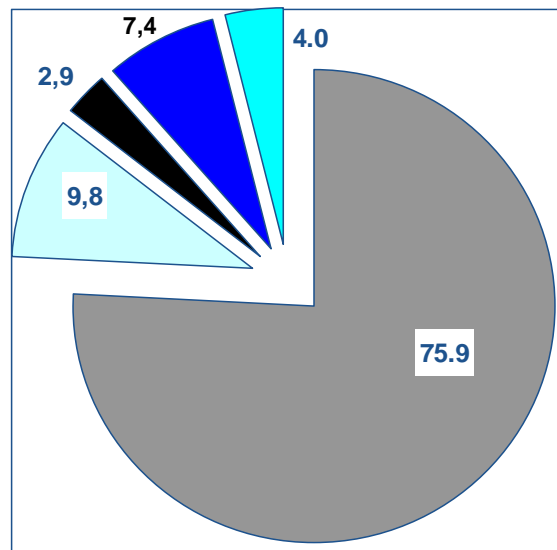


- Electric power manufacture on coalfire power stations
- Electric power manufacture on gastourbin power stations
- Electric power manufacture on atomic power stations
- The electric power on large hydroelectric power stations
- Electric power manufacture on renewed energy sources

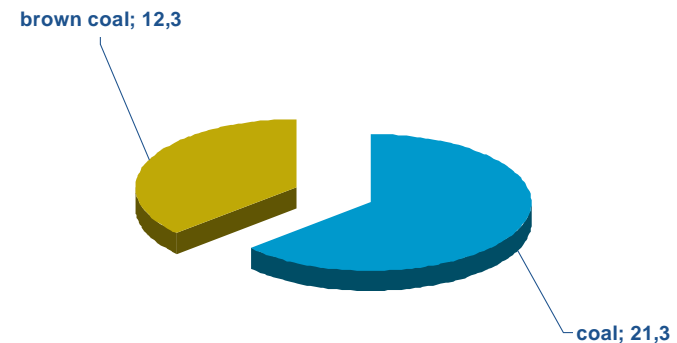


Structure of development of the electric power in 2020 across Kazakhstan, %

Balance stocks of coal
World's reserves: 848,5 billion tons
Stocks of Kazakhstan: 33,6 billion tons



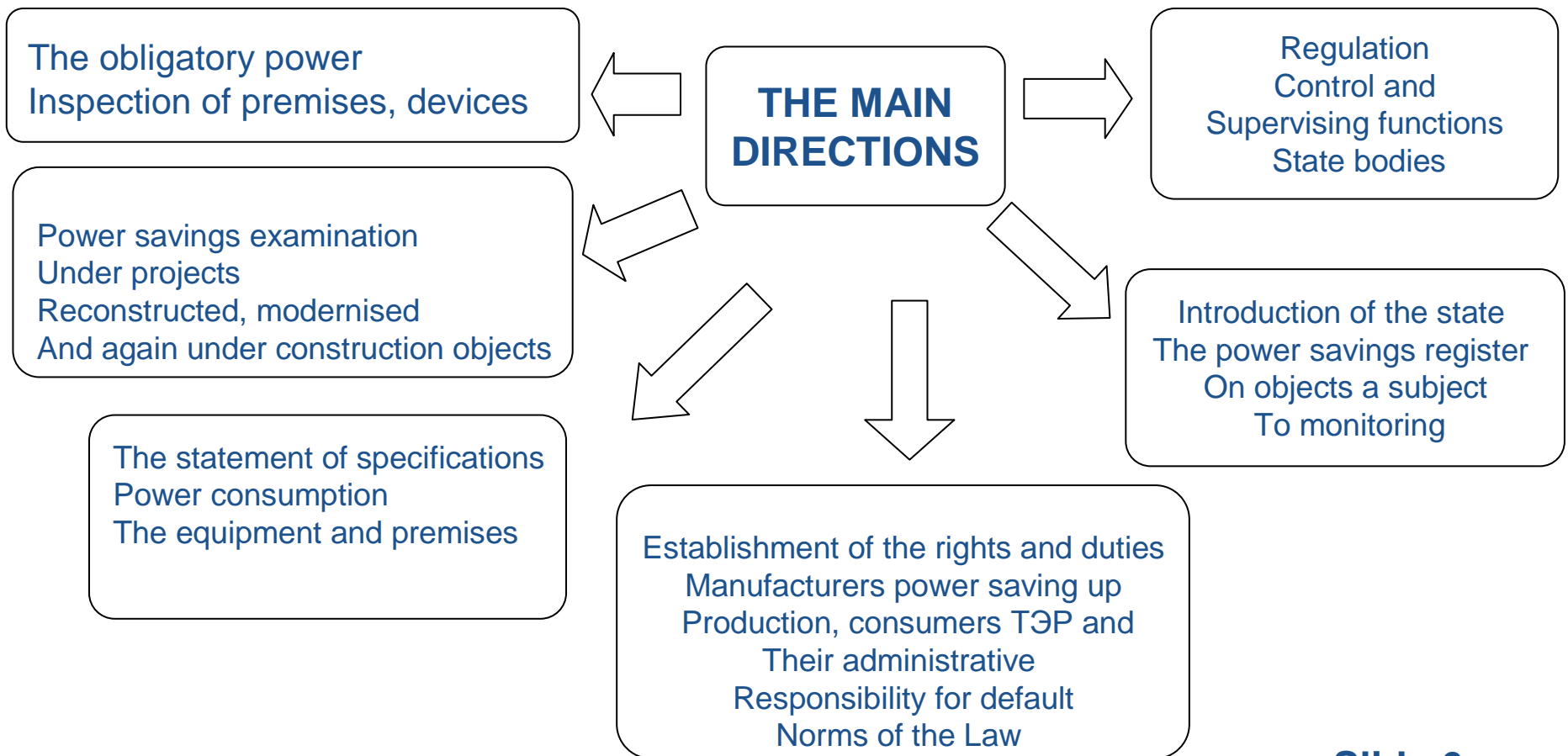
- Electric power manufacture on coalfire power stations
- Electric power manufacture on gastourbin power stations
- Electric power manufacture on atomic power stations
- The electric power on large hydroelectric power stations
- Electric power manufacture on renewed energy sources





THE PURPOSE AND THE BASIC DIRECTIONS OF THE LAW «ABOUT POWER SAVINGS»

The purpose - increase of power efficiency of economy of Kazakhstan to level of the developed countries of the world by ordering of the current legislation, stimulation of power savings and application of the power saving up equipment





The PURPOSES of the Law of Republic Kazakhstan «About support of use of renewed energy sources» which has been accepted on July, 4th, 2009 for № 165-IV

- **Decrease in power consumption of economy and power influence on environment**
- **Increase in a share of use RER**
- **Creation of favorable conditions for use RER**
- **Assistance to performance of the international obligations of Republic Kazakhstan on decrease in emissions of hotbed**

Stock

трлн.куб.м

In total stocks of gas PK, confirmed GKZ PK	3,7	Including:	
		Dissolved	Free
		2,4	1,3

Extraction and resources of dry gas to distribution *

млрд.куб.м

Years	A gas production	Resources of dry gas to distribution	Gas consumption	Export
2008	33,5	14,7	9,0	5,7
2009	38,9	19,9	10,3	9,6
2010	42,3	23,0	11,6	11,4
2015	57,5	25,0	18,7	6,3
2020	92,3	23,4	21,5	1,9

* without sea projects on such deposits, as Block N, Zhambyl, Satpaev, Dead Kultuk, Abaj, Isataj, etc., and also development of 3rd stage КНГКМ.



Taken stocks of hydrocarbonic raw materials in Kazakhstan

The proved taken stocks of Kazakhstan include:

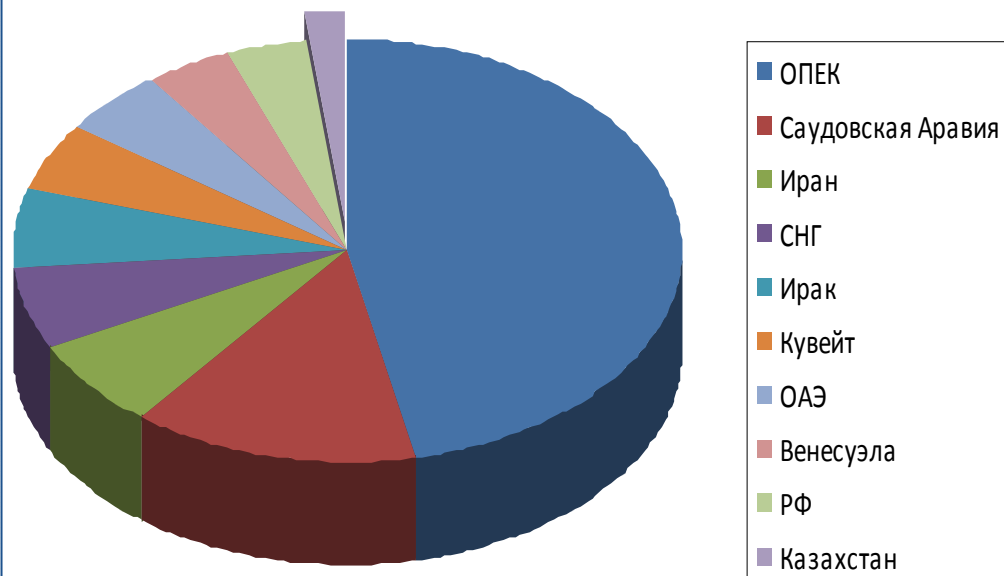
- Oil - 4,8 billion

3,2 % from the general taken Oil stocks in the world

- Kazakhstan is in ten leading countries in the world On stocks of hydrocarbons

Мировые запасы нефти

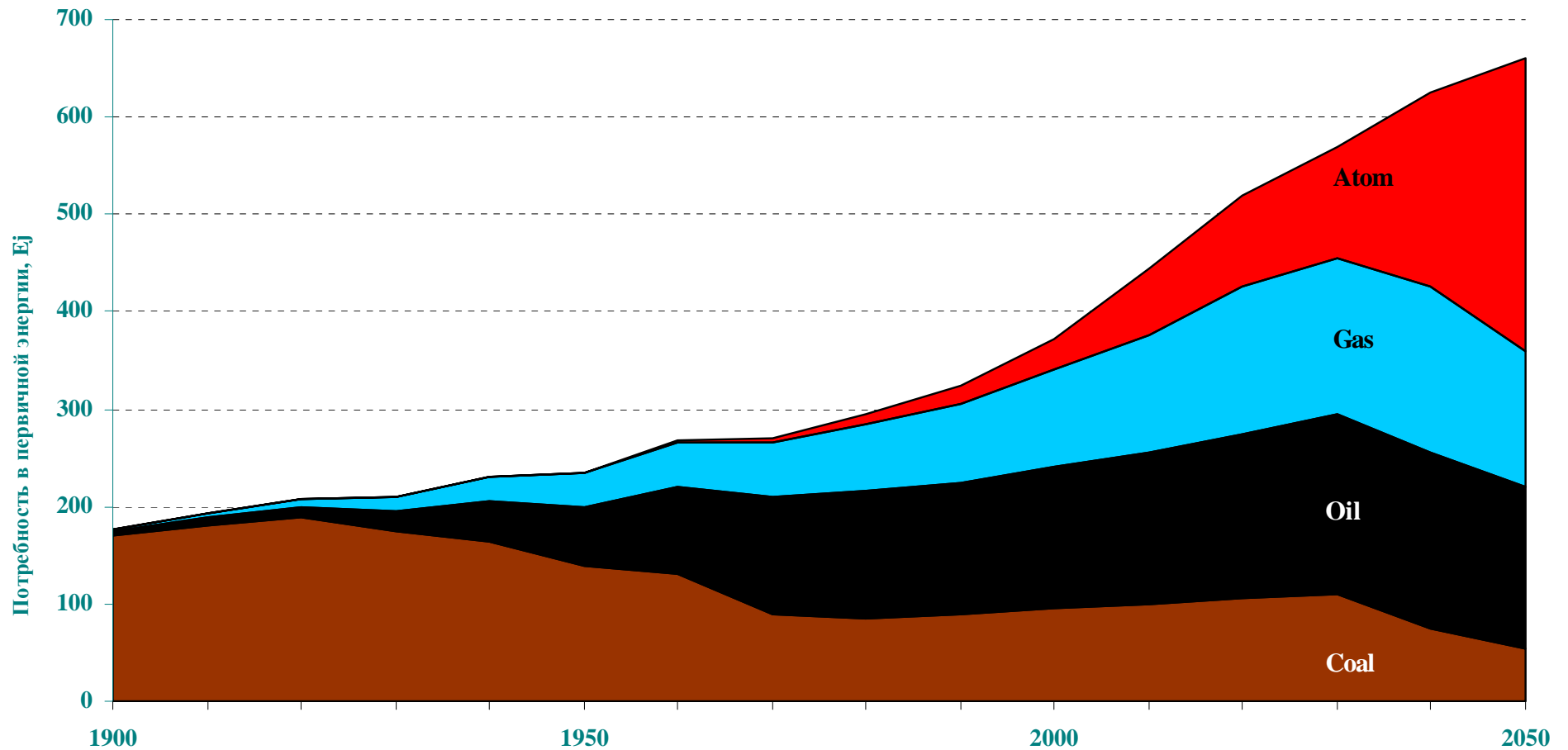
Казахстан – 3.2%





The atomic engineering has the good future

The nuclear energy share in the world will increase from 17 % in 2008 to 35 % in 2050
By 2050 the park from approximately 1200 1000МВт reactors is required





The creation of the vertically-integrated complex of a nuclear fuel cycle

Planned result:

- Receive a significant share of participation in all stages NFC;
- Get the maximum profit from everyone extracted in PK kg U;
- To receive a transfer of the most successful technologies NFC ;
- Expand and strengthen mutually advantageous cooperation with leading players of world nuclear branch.

Stages of NFC	2009		2020 (forecast)	
	The world market	Kazakhstan	The World market	Kazakhstan
Extraction, T U	49 000	24%	-	-
Conversion, T U	61 000	0%	77 000	16%
Enrichment, thousand EPP	50 000	0%	76 000	7%
Powders, tablets, MTU	7 400	3%	9 000	13%
Assemblages, MTU	7 400	0%	8 600	14%



**Thank you for
attention!**