

AzarEnerji

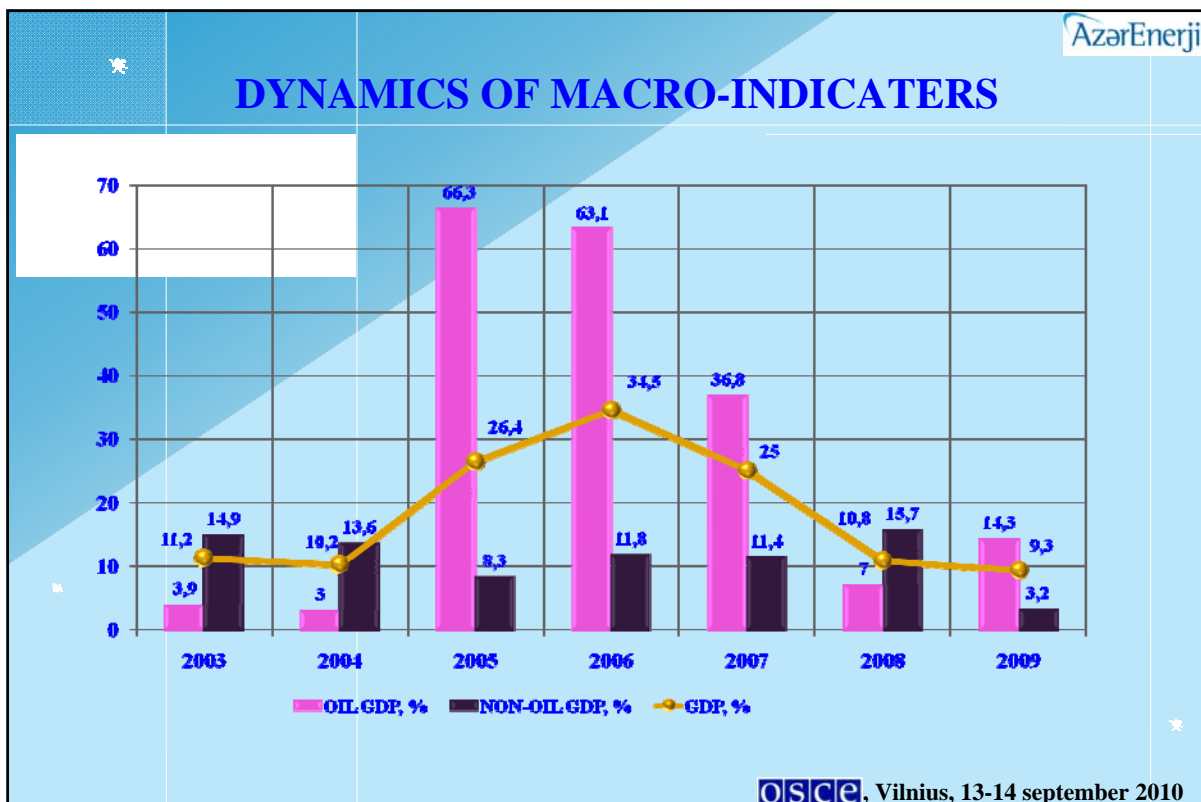
Electricity security of Azerbaijan in new economic development

N.YUSIFBAYLI

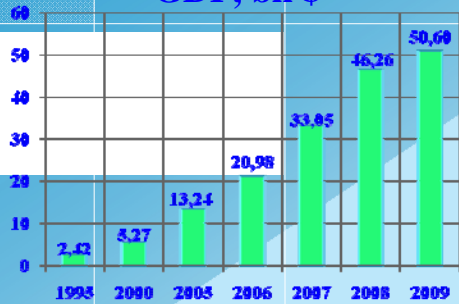
osce SPECIAL MEETING ON ASSESSING THE
OSCE'S FUTURE CONTRIBUTION TO INTERNATIONAL
ENERGY SECURITY CO-OPERATION

Vilnius, 13-14 September 2010

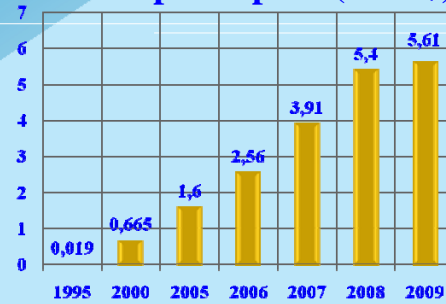
osce, Vilnius, 13-14 september 2010



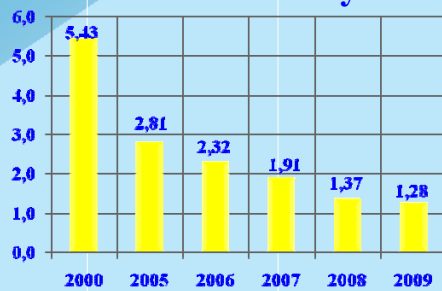
GDP, bil \$



GDP/per capita (thsd \$)



Power intensity



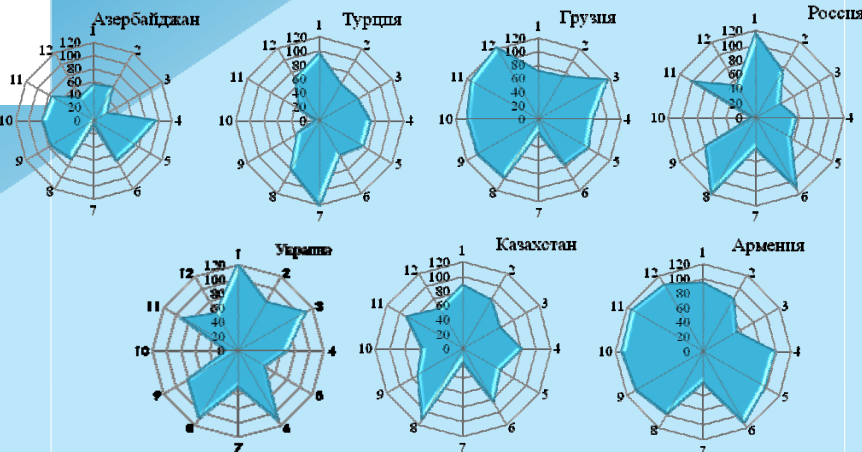
Electro capacity



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«Structure» of The Comparative Competitiveness of Azerbaijan

1. Институты
2. Инфраструктура
3. Макроэкономическая стабильность
4. Здравоохранение и начальное образование
5. Высшее образование и переподготовка кадров
6. Эффективность товарных рынков
7. Эффективность рынка труда
8. Эффективность финансовых рынков
9. Технологическая готовность
10. Объем рынка
11. Качество ведения бизнеса
12. Инновация



*данны из "Global Competitiveness report 2009-2010"

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Dynamics of technical-economical and other indicators of energy security

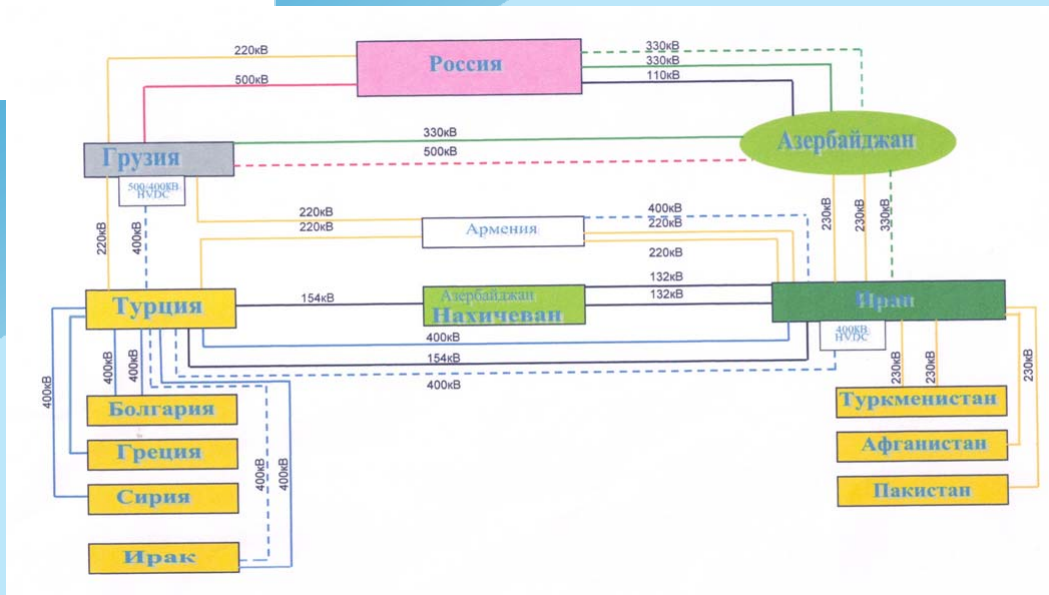
	Indicators	Unit of measurements	1995	2000	2005	2006	2007	2008	2009
1	Portion of mast powerful plant	%	48,3	46,4	45,3	43,2	42,4	40,2	36,4
2	Portion of mast powerful unit in whole installed capacity power system	%	6,0	5,8	5,7	7,2	7,0	6,7	6,3
3	Average capacity of PP	MW	832	867	800	556	517	470	353
4	Average capacity of unite	MW	192	200	186,7	73	79	67	52
5	Oxid – sulfur SO ₂	thsd.t	4,0	39,7	11,5	9,4	6,4	3,4	0,97
6	Nitric – oxide NO ₂	thsd.t	38,9	40,8	19,6	22,5	16,5	13,7	12,5
7	Outgoing ash	thsd.t	16,9	16,4	0,5	0,4	0,3	0,1	0,041*

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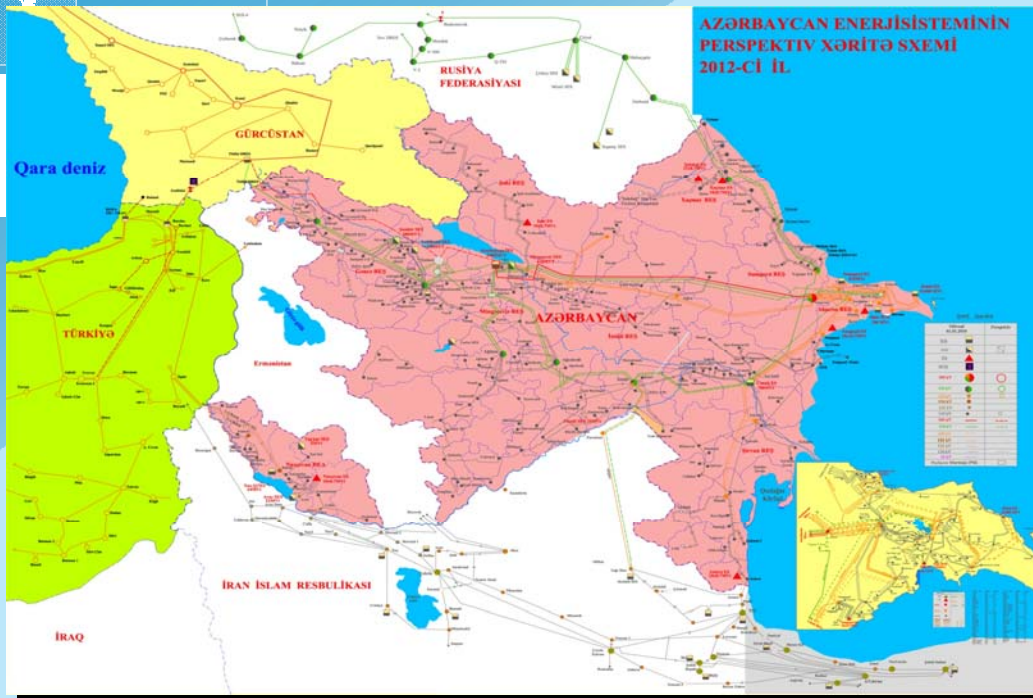
8	Carbonic acid CO ₂	thsd.t	15389	15657	16332	17487	14461	13815	11378
9	Oxide carbon CO	thsd.t	-	-	0,4	1,2	2,99	2,36	4,35
10	Fuel rate	gct/kW	385	411	379	368	353	346	327,9
11	Used full ratio gas/heasy oil	%	18,9 81,1	22,6 77,4	67 33	76,5 23,5	78,9 21,1	90,4 9,6	96,6 4,4
12	Share units taking part in satisfying peak demand	-	17,0	19,2	18,0	24,6	26,0	29,8	15,3
13	Share of unite distributed generation	-	-	-	-	6,3	8,0	12,6	17,3
14	Efficient Power System	%	31,9	29,9	32,4	33,4	34,8	35,5	37,5

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Diagram of power interconnections in the Caucasus region



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Existing Interconnections of Azerbaijani Power System



Russia (North Caucasus) : two interconnections, one at 330 kV and the other at 110 kV,



Georgia: two interconnections, one at 330 kV and the other at 500 kV,



Turkey: one interconnection at 154 kV,



Iran: five interconnections, one at 230 kV, one at 110 kV and three at 132 kV, two interconnections, one at 330 kV and the other at 230 kV is in the construction phase.

Conclusion



All technical-economical, ecological and some major indicators of PS have been improved;



There is an opportunity for the further development and implementation of the dominant role in the region at the expense of occurrence export potential;



There is a real opportunity to establish the Eurasian power system super union that would consist of UCTE, CENTREL, UPS of Russia, Turkey and Iran, as well as, energy systems of the South-East Europe, Central and Eastern Asia.



Important roles in establishing such the union (North – South) belongs to the power system of the South-Caucasian regions. The present intersystem links lay conceptual grounds for the union and necessity of reinforcing them

TƏŞƏKKÜR EDİRƏM

THANK YOU FOR ATTENTION