



The State Agency on Alternative and Renewable
Energy Sources of the Republic of Azerbaijan



Opportunities to develop energy efficiency in Azerbaijan

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Overview

- ▶ Legislative base
- ▶ Energy efficiency platform
- ▶ Azerbaijan macro economic energy indicators
- ▶ EE Projects
- ▶ Energy audit
- ▶ Conclusion and Recommendations



Legislation base

- ❖ Law of the Azerbaijan Republic on Utilization of energy resources-1993;
- ❖ Energy efficiency action plan for 2015-2020 prepared by the framework EU energy reform support programme;
- ❖ Resolution of the Cabinet of Ministers of Azerbaijan resolution of the republic of Azerbaijan on approving rules “Improving energy efficiency and energy saving in buildings” - 11 march 2014;
- ❖ Drafting laws on Renewable energy and energy efficiency (22 secondary legislative documents).

The rules of improving energy efficiency and energy saving in buildings

- Energy performance certification of buildings
- Energy passport for buildings
- Design solutions based for energy saving and increasing energy efficiency



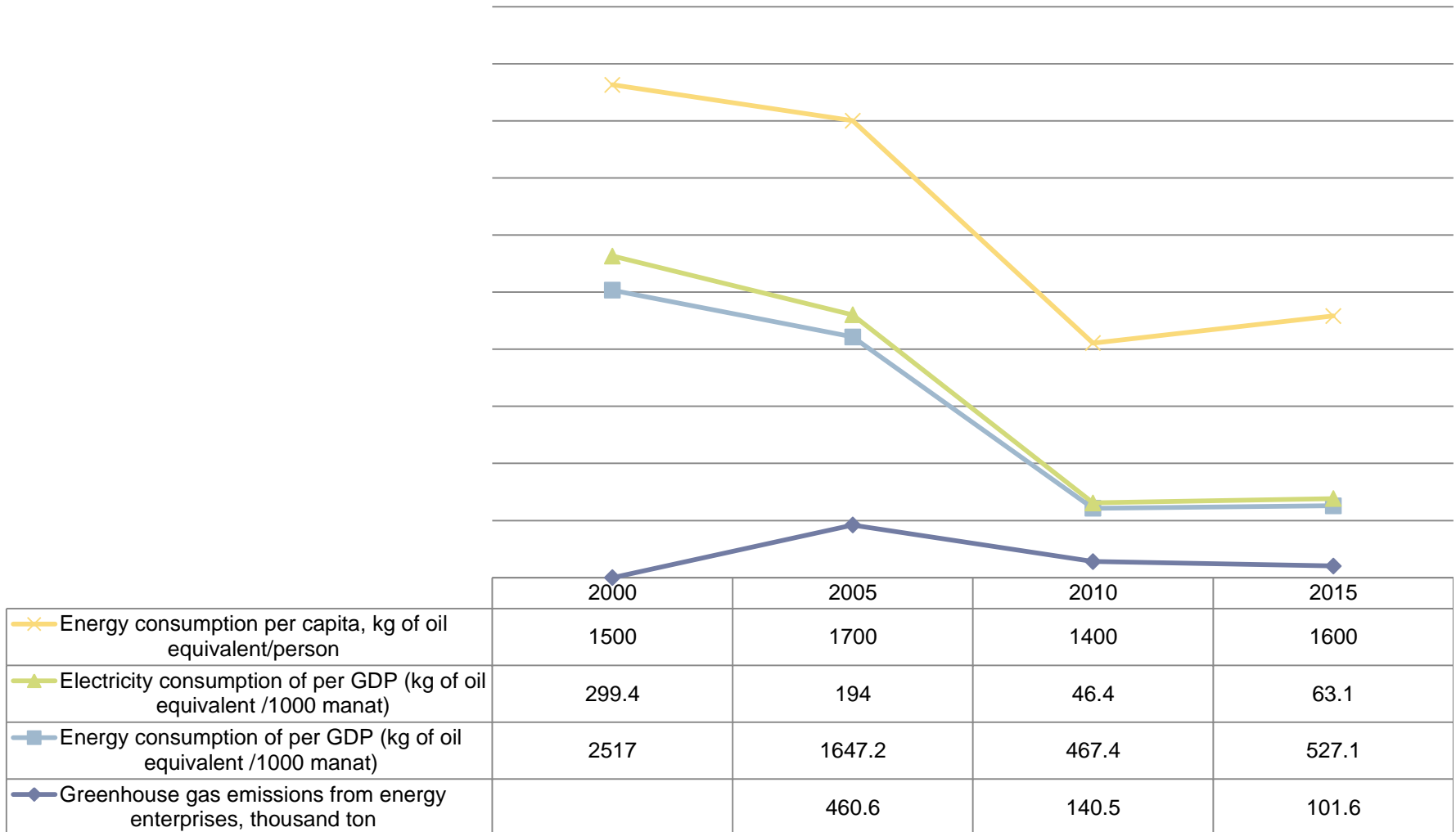
Energy Efficiency Action Plan for 2015-2020

With in framework of this action plan planned to carry out 31 measures improving energy efficiency by 2020

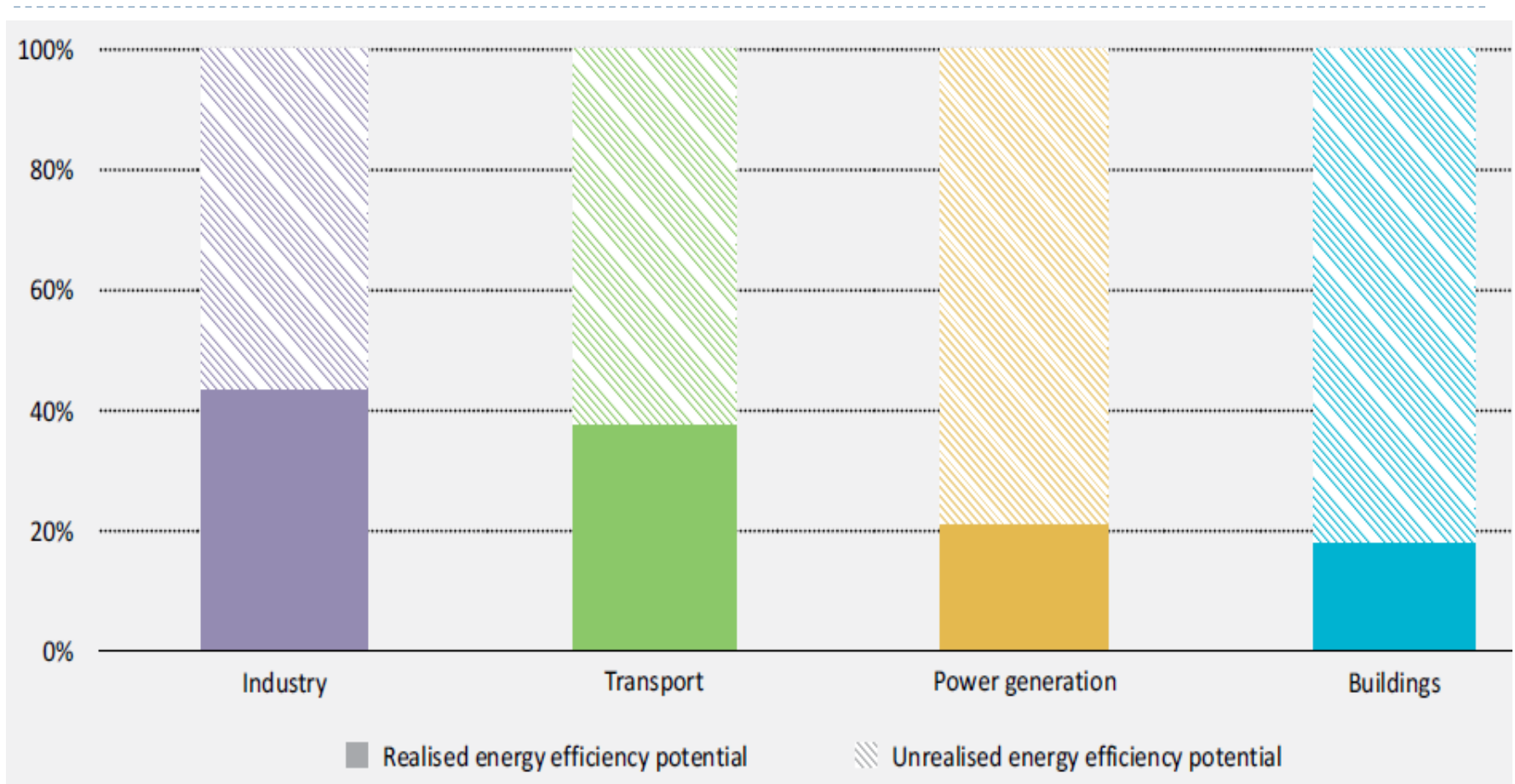
- Institutional measures - 14
- Infrastructure measures -11
- Legislative measures - 6



Energy intensity and GHG reduction from energy enterprises in Azerbaijan



Energy efficiency potential by sector



source: COPENHAGEN CENTRE
ON ENERGY EFFICIENCY
SE4ALL EE HUB

Partners of the EE Platform

Regional level:

more than 50 organizations

(INOGATE, EBRD, IFC, EU energy charter)

Country level:

more than 45 national governments

(Black Sea Economic Cooperation, GUAM, CIS energy board)

City level:

more than 35 local governments

(Sumqayit city doing the preparatory work for entering covenant of mayors)



Growing network of partners

SUSTAINABLE BUILDINGS IN AZERBAIJAN “ TECHNICAL ASSISTANCE AND CAPACITY BUILDING “ PROJECT



Improve human resource capacity and skills for integrated energy audit and certification of future buildings in Azerbaijan and the use of renewable energy in buildings.

- ✓ Training of local experts on energy audit of buildings
- ✓ 5 sessions lectures (c software products ENSI)
- ✓ Exercises and tests and homework
- ✓ Visit and inspection facilities
- ✓ Energy auditor certification (Certified 7 experts)

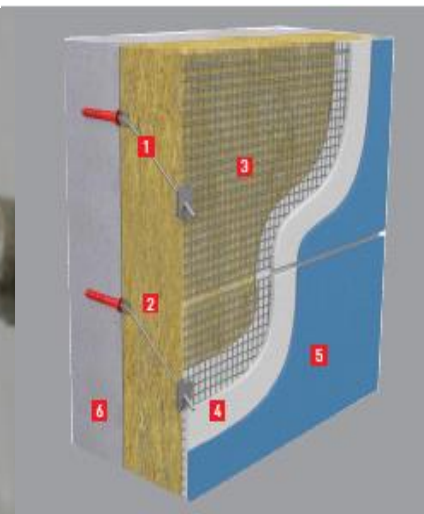
SUSTAINABLE BUILDINGS IN AZERBAIJAN

“ TECHNICAL ASSISTANCE AND CAPACITY BUILDING “ PROJECT

- ✓ The opening ceremony of the project organized in 2011;
- ✓ Within framework of this project "was held 5 sessions training courses on “energy audit in buildings“;
- ✓ Within framework of this project was carried out energy audit in various social facilities by local experts;
- ✓ The closing ceremony of the project organized in 2013, successful 7 local expert awarded energy auditor certificates.



ENERGY AUDIT



EE measures– Energy audit					
SOCAR ECO PARK- Administrative building			Ventilated area: 460 m ²		
EE measures		Investment	Net savings		NPV ratio
		AZN	kWh / year	AZN/year	
1	Installing thermostatic valves and hoods to each heating device	700	17 304	433	8.86
2	Floor isolation	1700	11487	287	1.7
3	Roof isolation	4296	21 610	540	1.01
4	Walls isolation	7972	17 375	434	-0.13
5	Installing new windows	12 174	5867	147	-0.81
Sum for all measures		26 842	73 643	1841	2.13

Solar power projects implemented in social buildings



Children's Polyclinic №16
(25 kW Electric, 40 kW Heating)



Secondary school № 149 in
Bina
(60 kW Heating)



Secondary school of № 166
(32 KW Electric, 60 kW Heating)



Secondary school № 235
(25KW Electric, 40KW Heating)



Secondary school № 239
(5 KW Electric, 3 KW Heating)



Secondary school № 320
(25 KW Electric, 40 KW Heating)



Biləsuvar rayonunda
(6x50 KVt. elektrik, 6x135 KVt. istilik)



Masallı Sport Complex
(70 KW Electric, 90 KW Heating)



Hovsan Dispensary
(10 KW Electric, 20 KW Heating)



SOS Children and youth school
(20 KW Electric, 44 KW Heating)



Beylagan Sport Complex
(70 KW Electric, 90 KW Heating)



Turkan children orphanage
(25 KW Electric)

Thank you for your attention!

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