



RA NATIONAL PROGRAM ON ENERGY SAVING AND RENEWABLE ENERGY

Hayk Badalyan

**Head of Energy Saving and Technical
Normative Department**

RA Ministry of Energy and Natural Resources



Main Provisions on Energy Policy

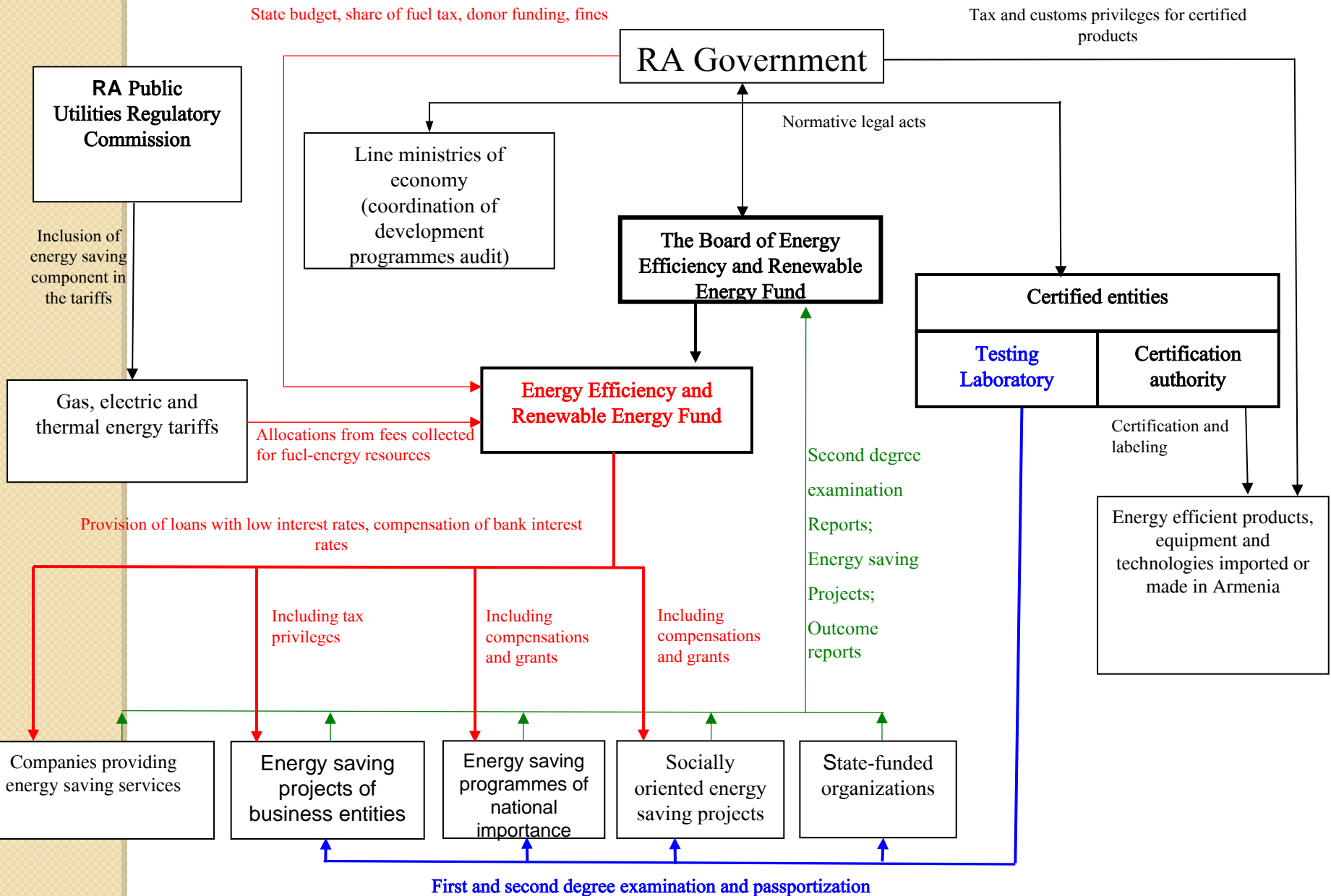
- **Facilitating sustainable energy development in line with the development trends of economy**
- **Enhancing regional cooperation**
- **Making the best use of energy-efficient technologies both in energy and other sectors of economy**

The slide features a vertical decorative bar on the left side. At the top of this bar is the flag of Armenia, which consists of three horizontal stripes of red, blue, and orange. Below the flag are several overlapping, semi-transparent circles in shades of grey and white. The main title of the slide is 'Fundamentals of the National Program on Energy Saving and Renewable Energy', written in a large, bold, brown font with a slight drop shadow.

Fundamentals of the National Program on Energy Saving and Renewable Energy

- Setting targets for the improvement of energy saving and renewable energy in Armenia and determining ways to meet them
- Facilitating the sustainable development of Armenia's economy
- Mitigating the country's dependence on foreign suppliers and on various disruptions to energy supply routes by improving energy saving and renewable energy in Armenia
- Mitigating inefficient growth of energy and utilities by facilitating vigorous (effective) developments through improving energy efficiency

Scheme of economic mechanisms for energy saving



The image features a vertical decorative bar on the left side. At the top, it displays the flag of Armenia, which consists of three horizontal stripes of red, blue, and orange. Below the flag, there are several overlapping, semi-transparent circles in shades of grey and white, creating a modern, abstract design. The background of the bar is a light beige color with a subtle grid pattern.

RA GOVERNMENT ACTION PLAN FOR THE IMPLEMENTATION OF THE RA PROGRAM ON ENERGY SAVING AND RENEWABLE ENERGY

- The main goal of the Energy Action Plan is to facilitate the further development of Armenia's Energy Saving Policy and to specify concrete steps for achieving it. One of the main objectives of the National Energy Policy is the improvement of energy saving and further development of renewable energy sources



ENERGY SAVING ACTION PLAN

Collection and analysis of energy statistics on a regular basis –
development of energy balance on an annual basis



ENERGY SAVING ACTION PLAN

Creating institutional framework for energy saving



ENERGY SAVING ACTION PLAN

- Improving the normative framework for energy saving



ENERGY SAVING ACTION PLAN

Setting quality assurance and quality control (QA/QC) standards which will provide energy performance certification of key construction materials



ENERGY SAVING ACTION PLAN

- Information campaigns, training and education in energy saving sector



ENERGY SAVING ACTION PLAN

- Energy saving sector public procurement
- Improving public sector energy saving and evaluating the commercial efficiency of the completed activities

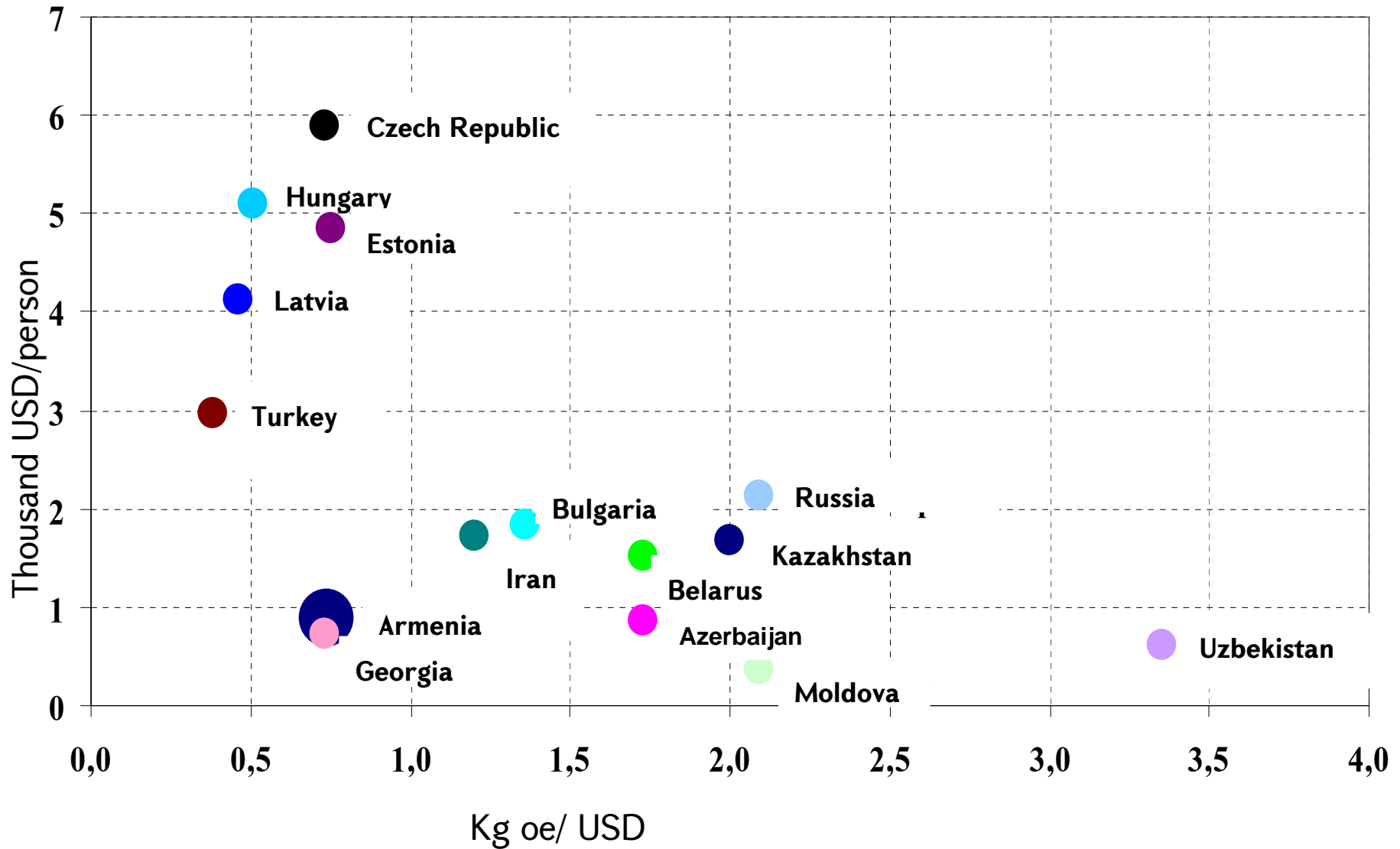


Components of 1008 ktoe energy saving potential in Armenia

No.	Energy saving targets	Energy saving potential	Energy saving potential (ktoe)	Reductions in CO2 emissions (kilotonne)
1	ES excluding motor vehicles and heating system in buildings	1 035 658 MWh	89,05	164,8
		84 734 thousand NM3 (natural gas)	75,40	161,6
2	ES in motor vehicles	293,4 TJ	7,01	3,9
3	ES in buildings	4,02 mln GCal	402,00	2,3
4	ES in Yerevan TPP (new technologies)	265 000 thousand m3 (natural gas)	235,82	505,2
5	ES in Hrazdan TPP (new technologies)	223 000 thousand m3 (natural gas)	198,45	425,2
Total			1007,73	1278,5



GDP per capita and GDP energy intensity in a number of countries



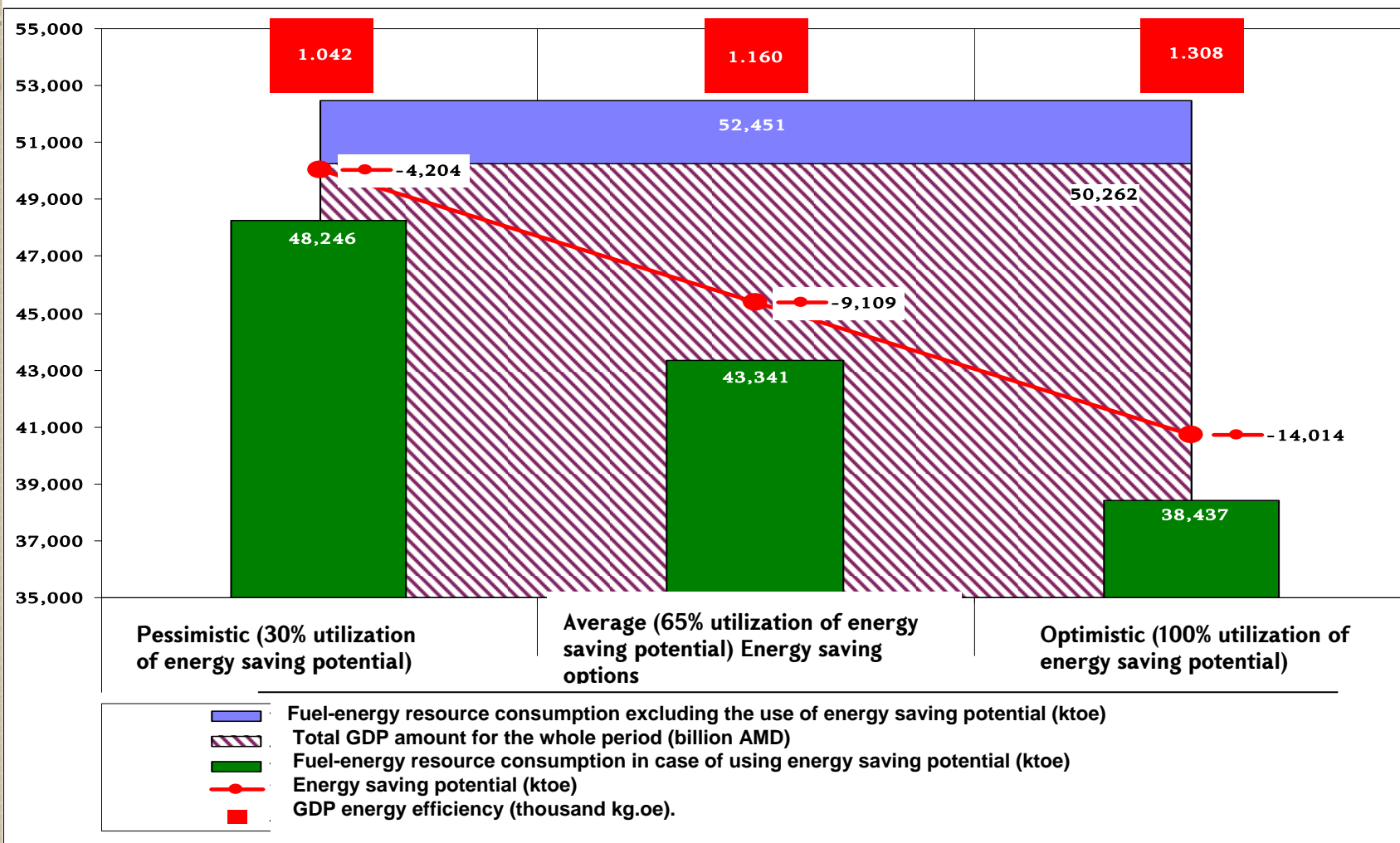
Summery data on the options of utilizing the energy saving potential for the period from 2010 till 2024

No	Name	Unit of measurement	Energy saving options		
			Pessimistic (30% utilization of energy saving potential)	Average (65% utilization of energy saving potential)	Optimistic (100% utilization of energy saving potential)
1	GDP (cumulative – for the whole period)	Bln. AMD	50 262	50 262	50 262
2	Consumption of fuel energy resources without utilizing the energy saving potential	ktoe	52 451	52 451	52 451
3	Consumption of fuel energy resources in case of utilizing the energy saving potential	ktoe	48 217	43 278	38 339
4	Energy saving potential	ktoe	-4 234	-9 173	-14 112
5	Energy efficiency of GDP	thousand AMD/ kg oe	1,042	1,161	1,311

Annual GDP growth: 4,5% (2010-2014), 5,5% (2015), 5% (2010-2024)

Maximum potential for energy saving: 1008 ktoe/year.

Summary Data on the Utilization of Energy Saving Potential





THANK YOU