



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

## Development of the renewable energy in Azerbaijan



### “Renewable Energy Show Cases and Prospects” Session

Jamil Malikov  
Deputy Chairman

Astana, Kazakhstan, 11-14 June 2017

# State Agency on Alternative and Renewable Energy Sources - AREA

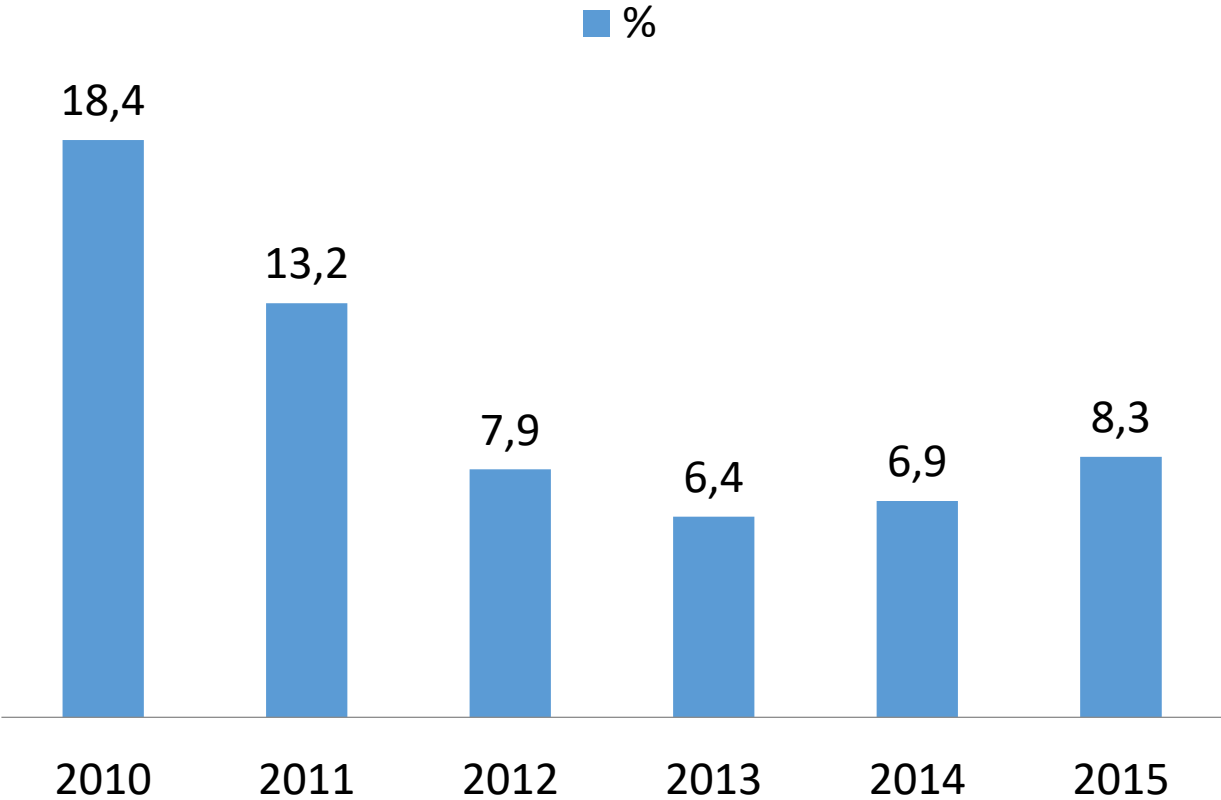
Central executive body carrying out followings  
in the field of RES and EE:

- State policy and regulation
- Efficient organization of activity and coordination
- State control

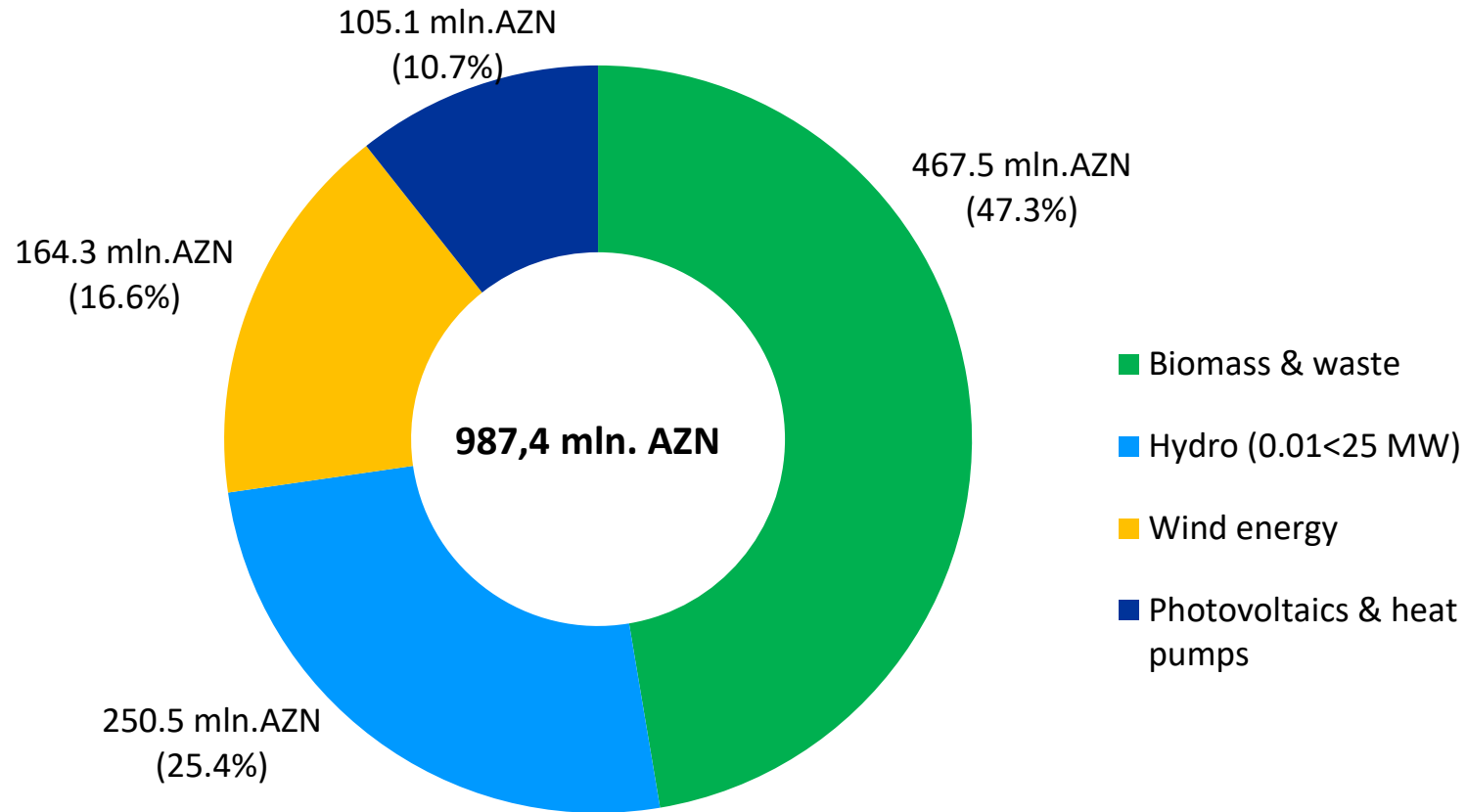
## **"State Program for the development of industry in Azerbaijan in 2015-2020" approved by the The Presidential Order No. 964, dated December 26, 2014**

- Establishment of industrial zones in the regions;
- The production expansion of renewable energy facilities and equipment;
- Intensification of the development non-oil sector

# Share of RES in total energy production

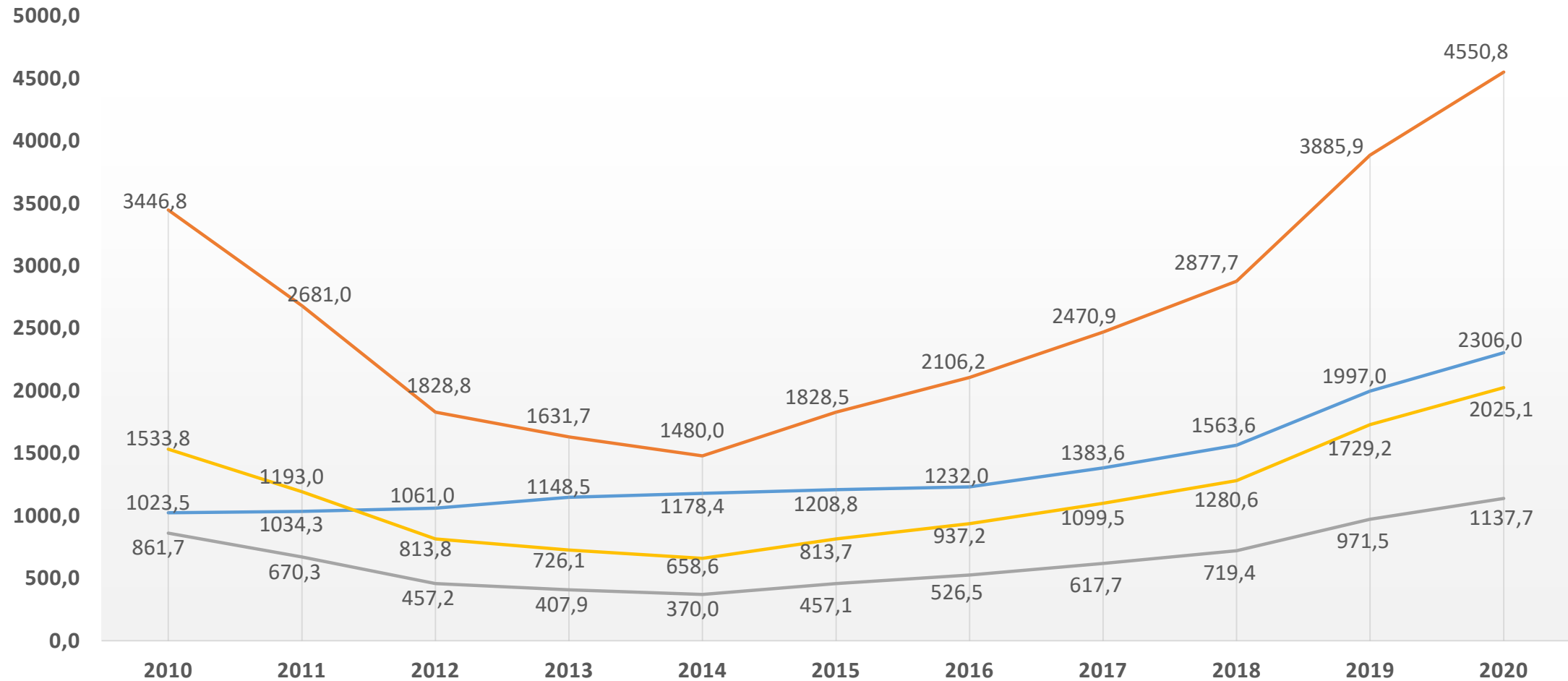


# Investments in RE (2005-2015)



State investment – 83 %  
Private investment – 17%

# Saving natural gas at the development of ARES



— ARES power plant capacity, MW  
 — Saving the natural gas, mln m3

— Electricity production by ARES, mln KWt h  
 — Deduction of greenhouse gas emission, thsd ton



## Sample Summary on Technology Parks

**Was approved by the Decree of President of the Republic of Azerbaijan dated May 15, 2014**

- Exemption from payment of income tax for 7 years;
- Exemption from land tax for 7 years;
- Exemption from payment of property tax for 7 years;
- Release of the art technological equipment and devices imported into the country in order to create industrial area in the industrial park, from the VAT for 7 years.



- Sumgait Technologies Park (STP)  
(STP has been launched by the President of Azerbaijan Ilham Aliyev on 22nd of December 2009.
- Sumgait Chemical Industrial Park (was start to build in 03.10.2013);
- Balakhanı and Pirallahi Industrial Park are building;

# Effect of “1000 MW Wind Park” to macro-economical indicators

- GDP -7.9%
  - of which non-state sector – 11.4%
- Investments to fixed capital – 17.6%
  - of which non-oil sector – 24.2%
- Number of temporary jobs (2 il) – 6 949
- Number of permanent jobs – 400
- Support currency balance – 1 226 mln USD
- Savings natural gas at the expense of energy efficiency : 4 102.5 mln. m<sup>3</sup>
- Savings natural gas at the expense of renewable energy: 5 829.5 mln. m<sup>3</sup>



# AREA – Projects classification

In accordance with State Strategy

- **Small-scale projects:** 1 building – 1 power plant
- **Medium-sized projects:** Local (district) hybrid type power plants
- **Large-scale projects:** Wind Power Plants, Biogas Power Plants and Concentrated Solar Power Plants

# Small-scale projects

1 building – 1 power plant

- Projects in more than 10 schools, 2 medical centers, 2 sport complexes
- Project at secondary school in Turkan (Baku city) was implemented by the grant of the Centre for Renewable Energy Sources of Greece



# Medium-sized projects

Gobustan Experimental Polygon and Training Center

Total capacity – 5.5 MW

- Wind PP – 2.7 MW
- Solar PP – 1.8 MW (additional capacity is being installed)
- Biogas PP – 1 MW

Was put into operation in 2011



# Medium-sized projects

Solar Power Projects

Re-cultivation of ecologically poor lands

- Pirallahy SPP
  - ▶ Surakhany SPP
- Total capacity: 2.8 MW
  - ▶ Total capacity: 2.8 MW



# Large-scale projects

## Samukh Agro-Energy Residential Complex

Implementation of alternative and renewable energy sources in economic sectors

- Total capacity:  
31 MW electric,  
48 MW thermal

Installation of solar component (2.8 MW) has already began

Project period: 2014-2018



# Large-scale projects

- Yeni Yashma Wind Farm – 50 MW
- Absheron Wind Farm (with PV component) – 80 MW
- Power Plants on Biomass – 16 MW
- “Wind Island – 1” Offshore Wind Farm – 198 MW



# AzGuntex – solar panels factory

**Was establish:**

- Solar PV (50 MW) Plant
- Solar Collector Plant

**Was installed 264 MW renewable power stations (for 2009-2015)**

**Hydro – 137 MW**

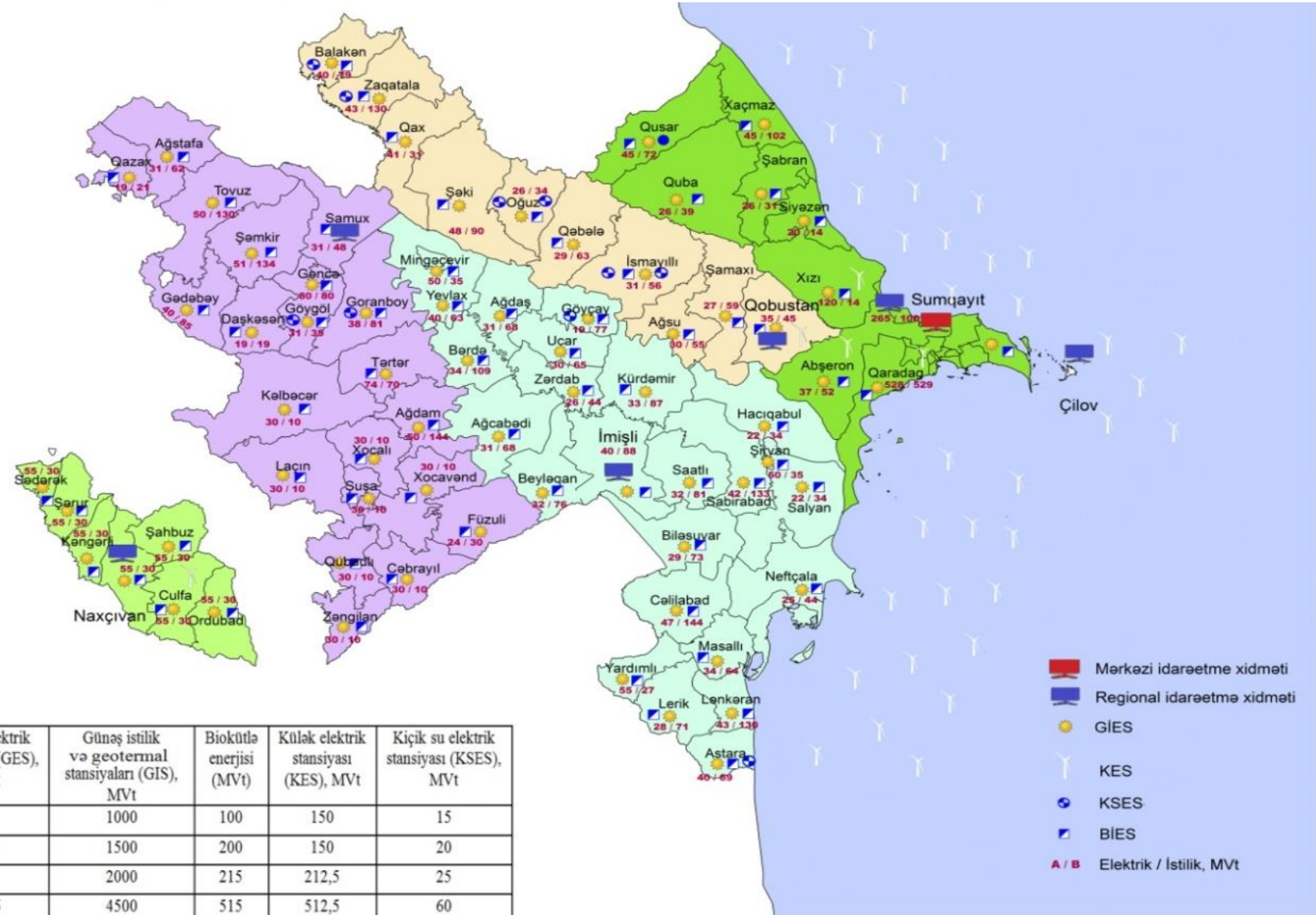
**Wind - 66 MW**

**Solar – 35 MW**

**Biomass & waste - 37 MW**



# Renewable energy for sustainable development



İllər	Günəş elektrik stansiyası (GES), MVt	Günəş istilik və geotermal stansiyaları (GIS), MVt	Biokütlə enerjisi (MVt)	Kütlək elektrik stansiyası (KES), MVt	Kiçik su elektrik stansiyası (KSES), MVt
2013-2016	790	1000	100	150	15
2017-2018	685	1500	200	150	20
2019-2020	730	2000	215	212,5	25
Cəmi	2065	4500	515	512,5	60





Thank you for your attention!

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