

## **Policies and Methodologies for Fostering and Assessing the Deployment of Low-Carbon Technologies in the ETC and SEMED Regions**

Implementation of alternative and renewable  
energy sources in economic sectors

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Deputy Chairman

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Istanbul, Turkey

# State Agency on Alternative and Renewable Energy Sources - AREA

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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



# Goals and targets of strategic development

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State Strategy on Use of Alternative and Renewable Energy Sources (2012-2020) was prepared by the Decree of the President of Azerbaijan Republic dated 29 December 2011.

- Determination of main directions for 2012-2020 on electric and thermal power production by using alternative and renewable energy sources;
  - Enforcement of legislative framework;
  - Stimulating measures;
  - Implementation of alternative and renewable energy sources in economic sectors.
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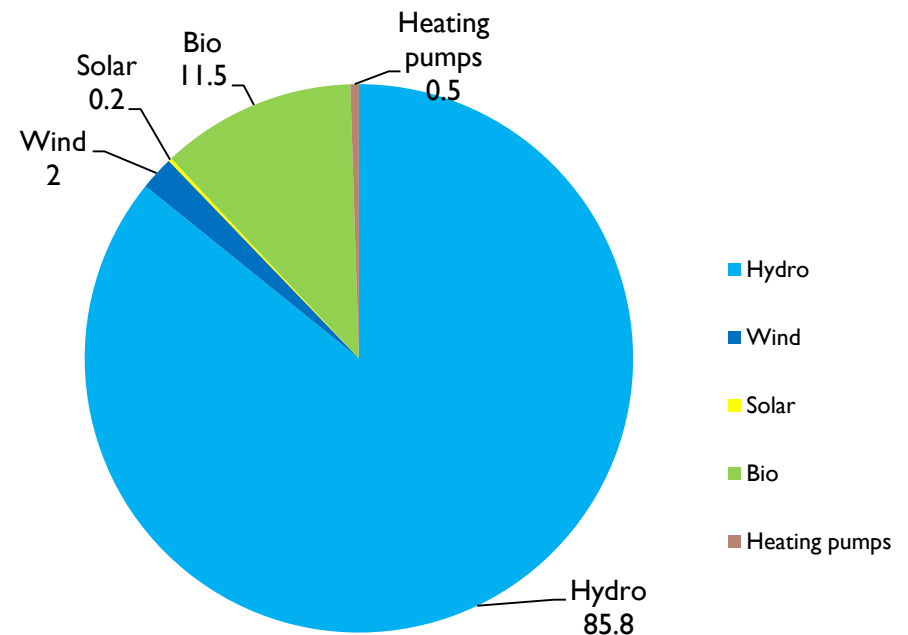
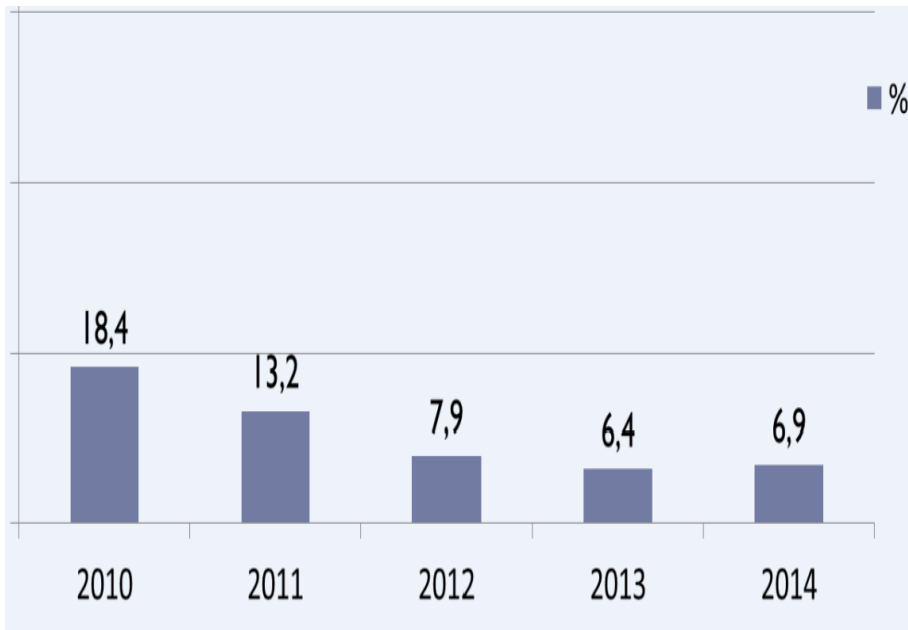


# Action Plans

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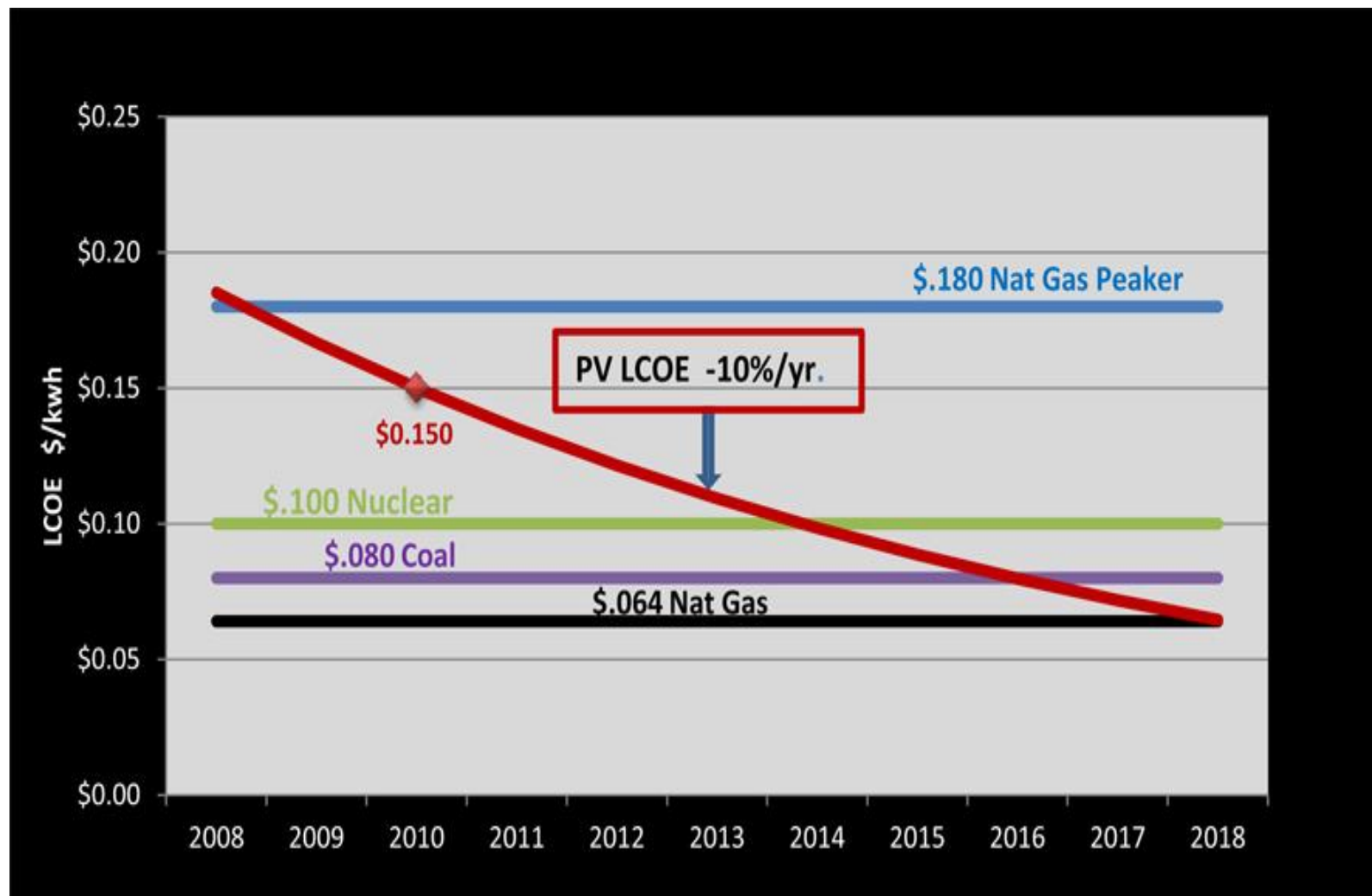
- ▶ State Program on Use of Alternative and Renewable Energy Sources (2004)
- ▶ State Program on Ensuring Reliable Population in the Republic of Azerbaijan in Food Provision (2008-2015)
- ▶ State Program on Socio-economic Development of Regions (2014-2018)
- ▶ State Program on Poverty Reduction and Sustainable Development for the Republic of Azerbaijan (2008-2015)

# Share of RES in total energy production



Share of RES types in RE production, 2014, %

# Levelized cost of energy as a key indicator of deployment of low-carbon technologies



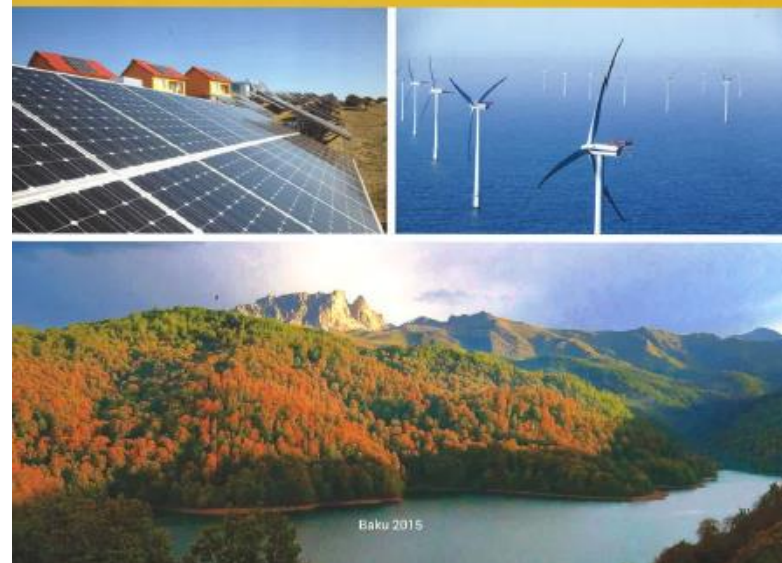
# AREA – Projects classification

- ▶ Large-size power plants for industrial purposes
- ▶ Implementation of RE in buildings
- ▶ Creation of agro-energy complexes



STATE AGENCY ON ALTERNATIVE AND RENEWABLE ENERGY  
OF AZERBAIJAN REPUBLIC

## USE OF ALTERNATIVE AND RENEWABLE ENERGY SOURCES



# Large-size power plants for industrial purposes



Power Plant	Capacity , MW	Status
Gobustan Hybrid Power Plant	5.5	Implemented
Surakhany SPP	2.8	Implemented
Pirallahy SPP	2.8	Implemented
“Wind Island – 1” Offshore Wind Farm	198	Pre-Feasibility study preparation
Absheron Wind Farm (with PV component)	80	Feasibility study preparation
Power Plants on Biomass	16	Feasibility study preparation
Yeni Yashma Wind Fram	50	Commissioning





# Large-size power plants for industrial purposes (continued)



Gobustan HPP



Pirallahy SPP



Surakhany SPP



"Wind Island – 1" Offshore Wind Farm  
(design)



Yeni Yashma Wind Farm

# Implementation of RE in buildings



## 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



# Creation of agro-energy complexes



## Samukh Agro-Energy Residential Complex

Implementation of alternative and renewable energy sources in economic sectors

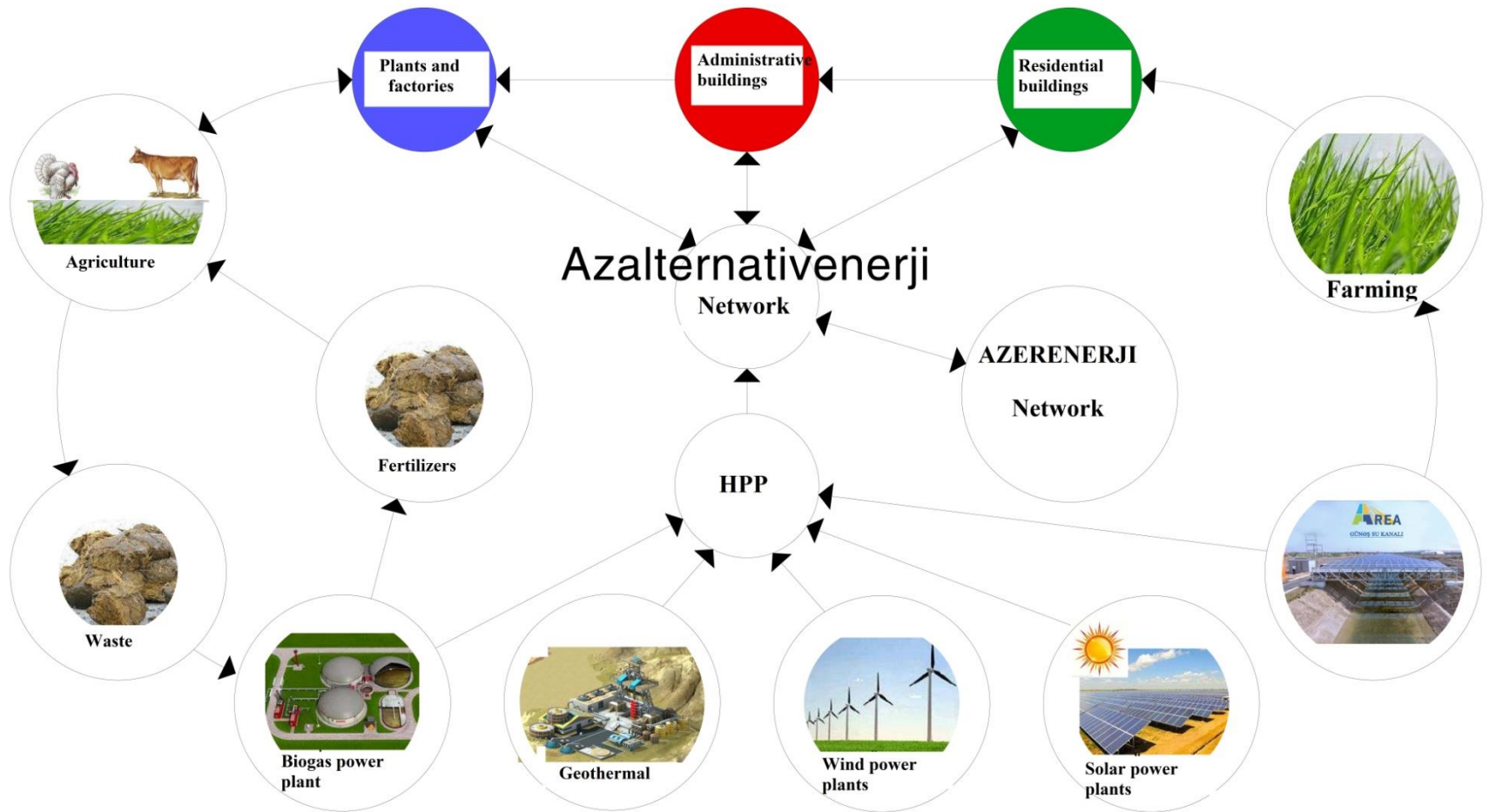
- ▶ Total capacity:  
31 MW electric,  
48 MW thermal

Installation of solar component (2.8 MW) has already begun

Project period: 2014-2018



# Agro-Industrial Energy Residential Complex



Cycle Concept





Thank you for your attention!

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