# 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

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

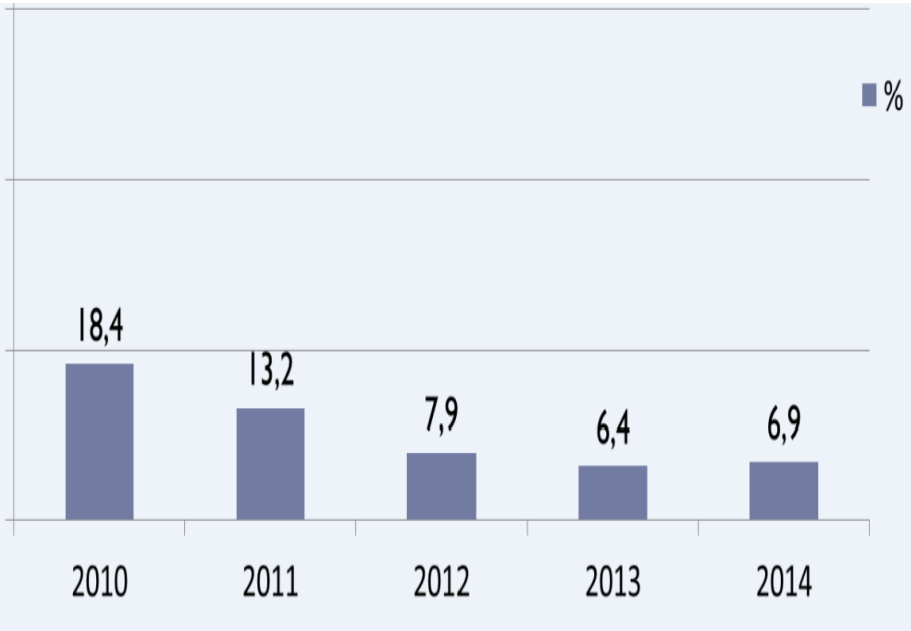
State Strategy on Use of Alternative and Renewable Energy Sources (2012-2020) was prepared by the Decree of the President of Azerbaijan Republic dated 29 December 2011.

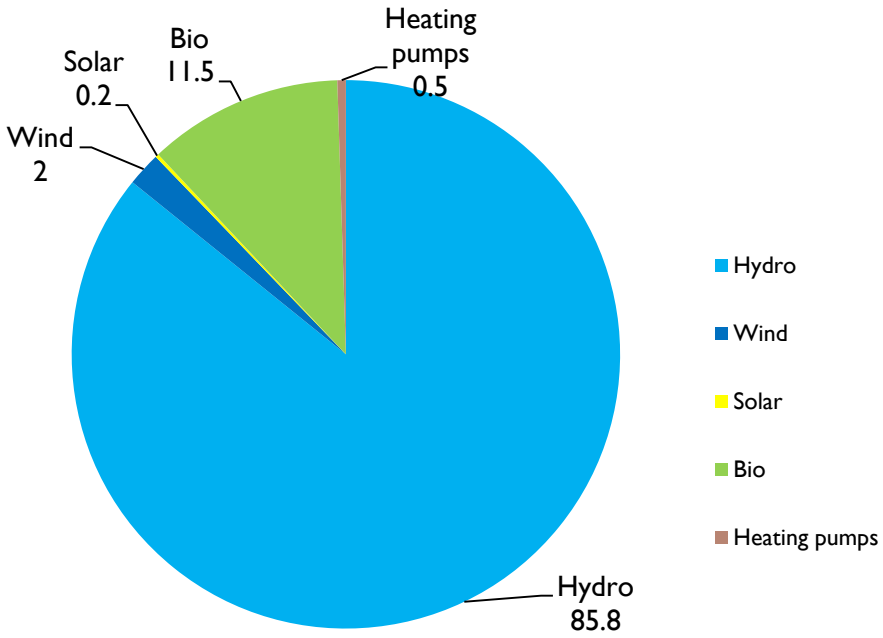
- Determination of main directions for 2012-2020 on electric and thermal power production by using alternative and renewable energy sources;
- Enforcement of legislative framework;
- Stimulating measures;
- Implementation of alternative and renewable energy sources in economic sectors.

# Action Plans

- 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)

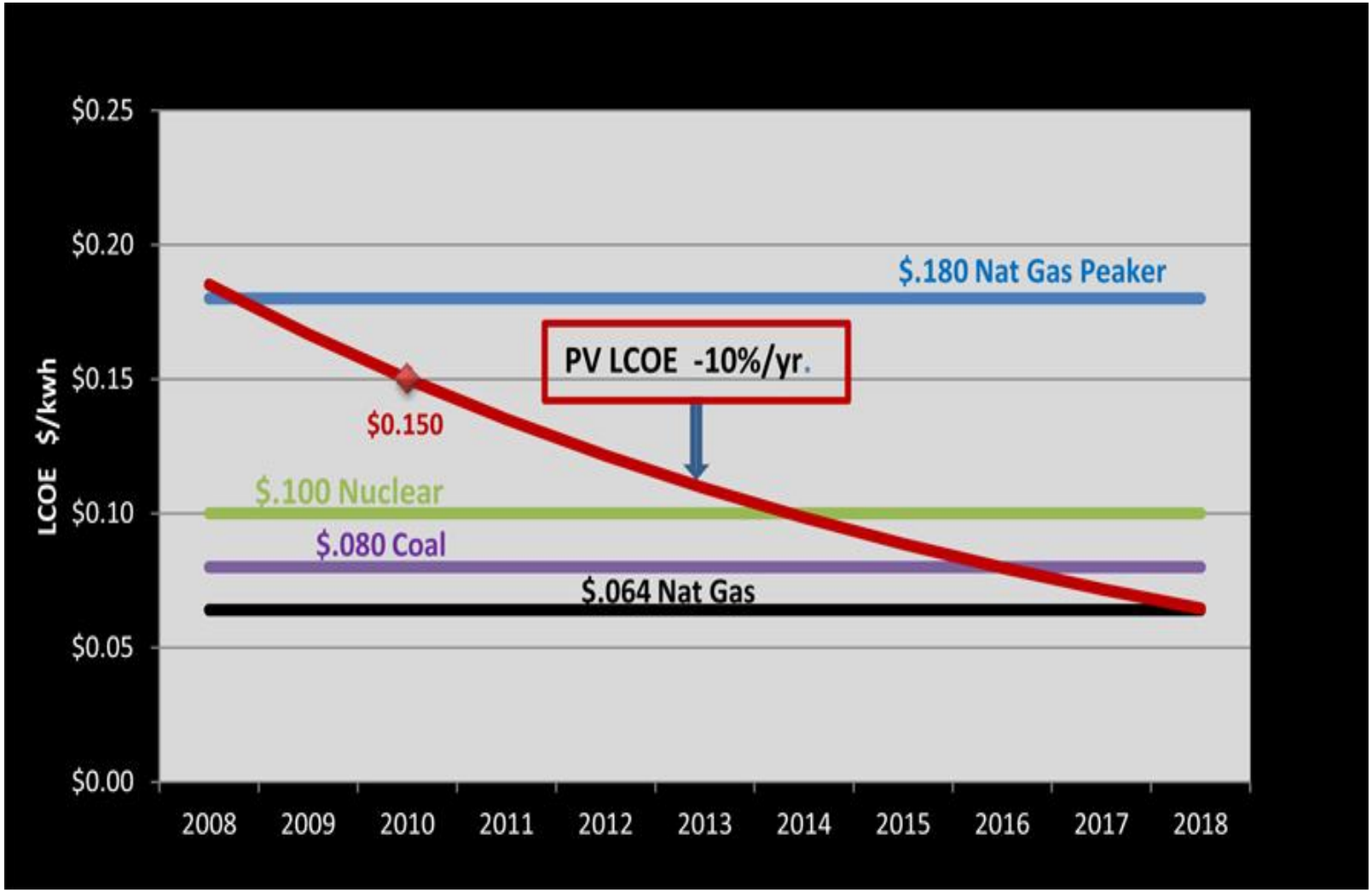
# Share of RES in total energy production



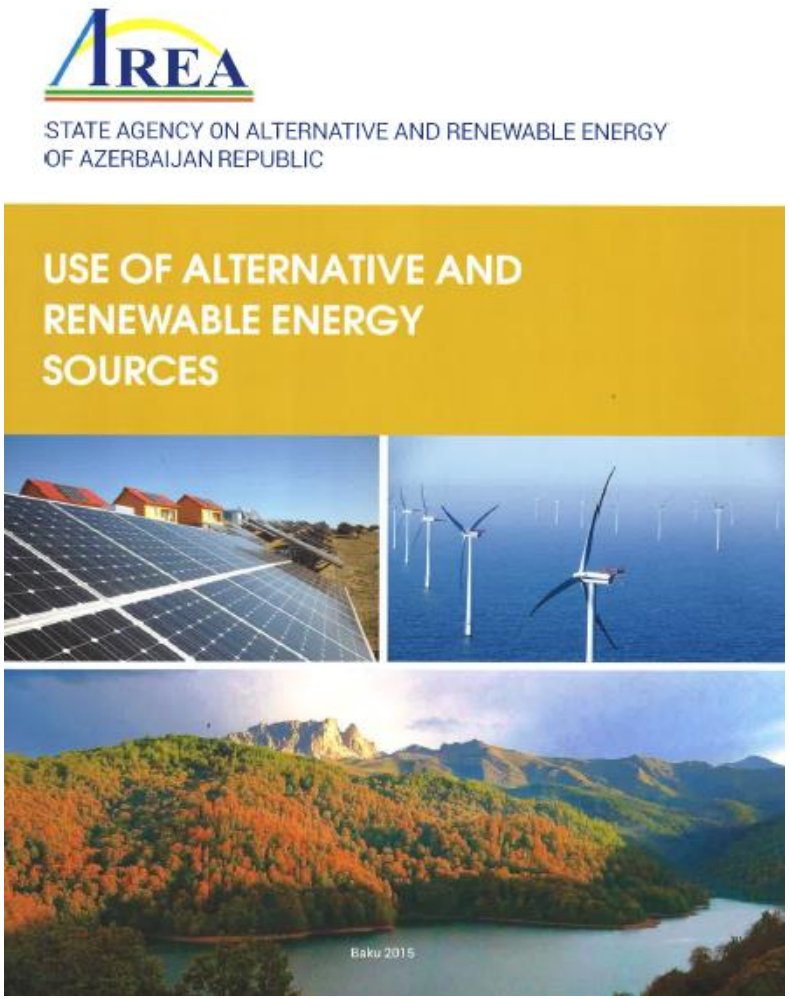

Share of RES types in RE production, 2014, %

# 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



# 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**

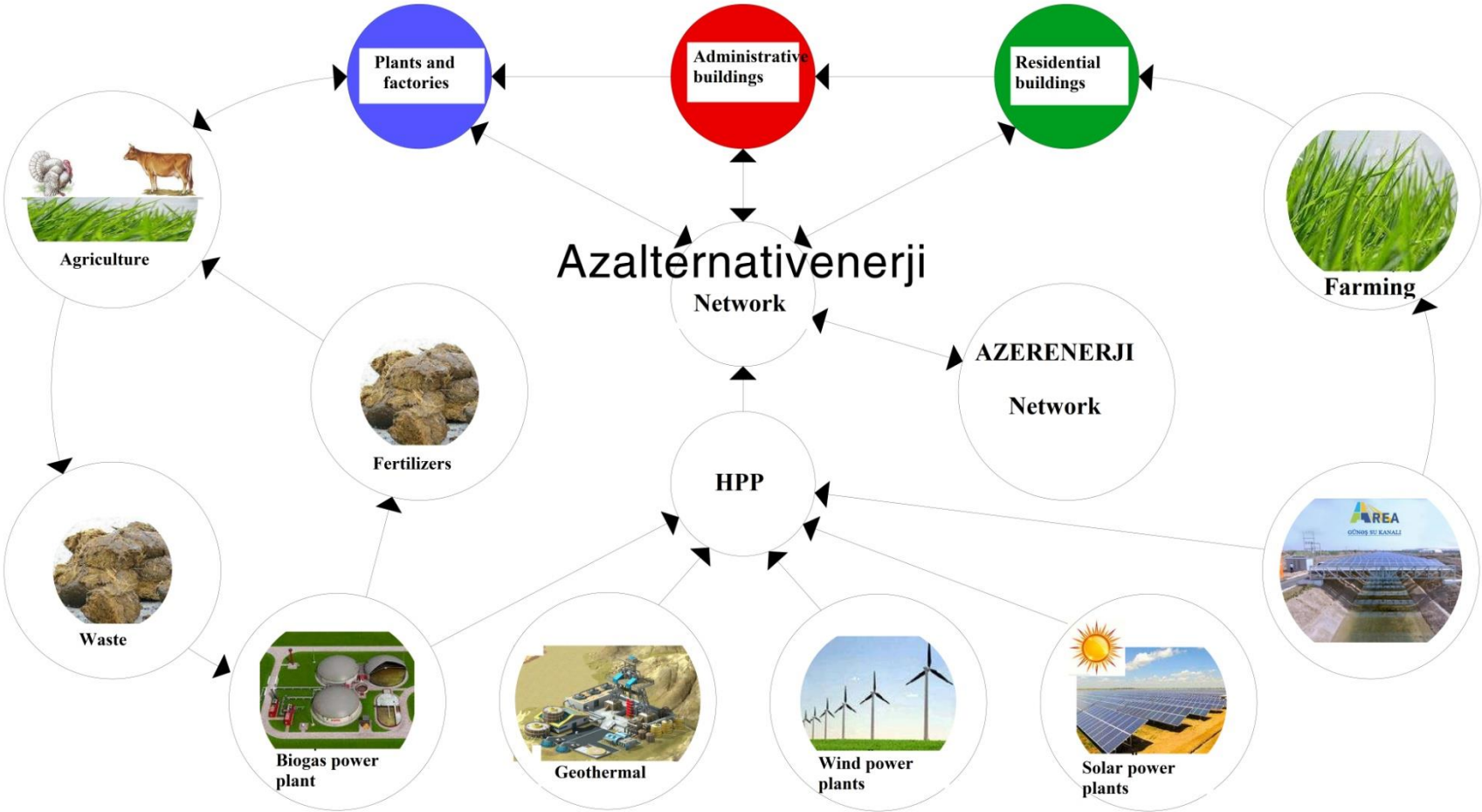
Implementation of alternative and renewable energy sources in economic sectors

- Total capacity:
  31 MW electric,
  48 MW thermal

Installation of solar component (2.8 MW) has already began

Project period: 2014-2018

# Agro-Industrial Energy Residential Complex




Cycle Concept

# Thank you for your attention!

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