

Sustainable development
in region:
Experience of Kazakhstan



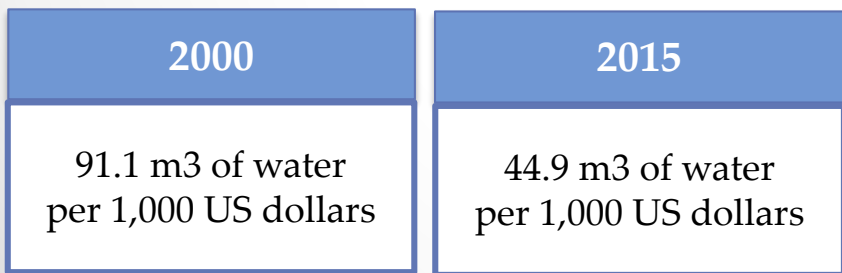
Main targets for the rational use of water resources in Kazakhstan are based on:

- Address by the President of the Republic of Kazakhstan, Strategy–2050,
- State Program for Development of Agro-Industrial Sector of the Republic of Kazakhstan for 2017-2021
- Concept for the transition of the Republic of Kazakhstan to a “green economy”

Achievement of targets for water supply and sanitation

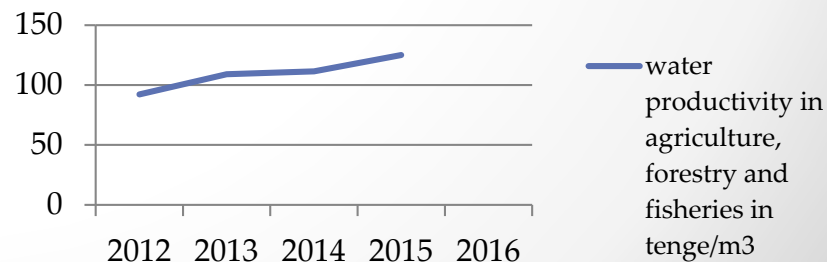
Indicators	2013	2014	2015	2016	2020 (plan)
Share of water users with constant access to the central drinking water supply system in%:					
in cities	55	86	87	88	100
in rural areas	11	50,3	51,5	52,3	80

Efficiency of water use in Kazakhstan



* defined as the use of fresh water per unit of GDP

As a result of water-saving technologies use productivity of water resources in agriculture has increased almost 1.5 times





Concept for transition to a green economy

Development of renewable energy sources

Share of RES in power generation

2020

2030

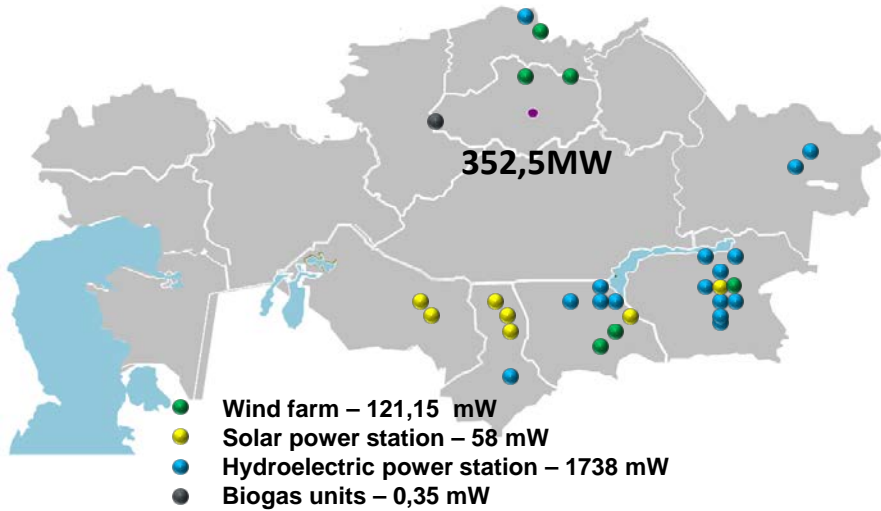
2050

3%

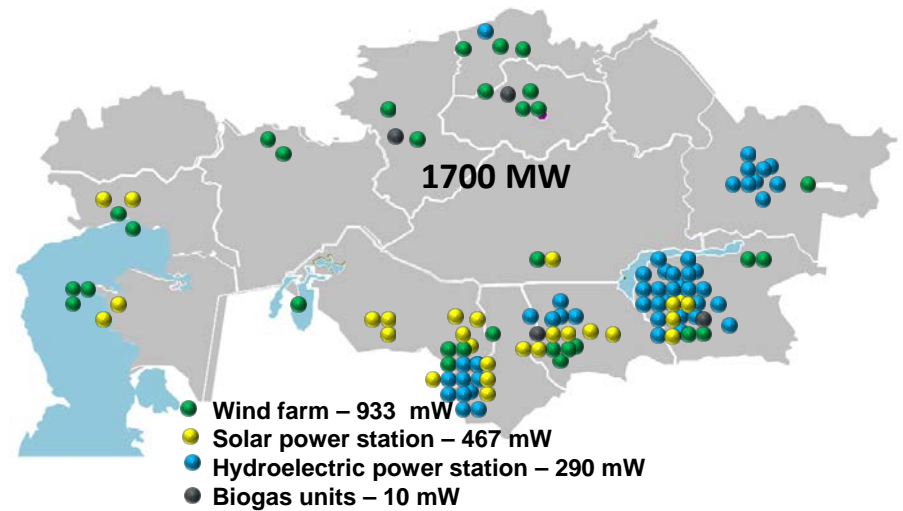
10%

30%

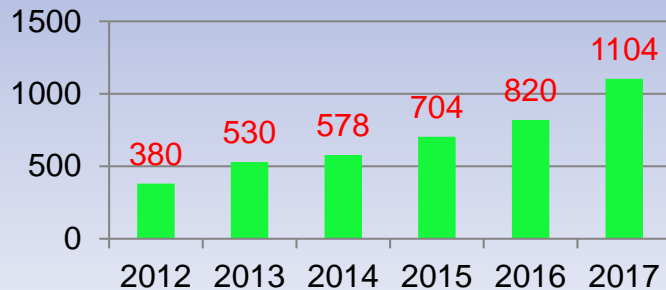
Projects for 2017



Projects for 2020



The amount of renewable energy produced, mln. KWh



Measures to achieve 3% share of renewable energy in total electricity production by 2020:

RES objects location plan

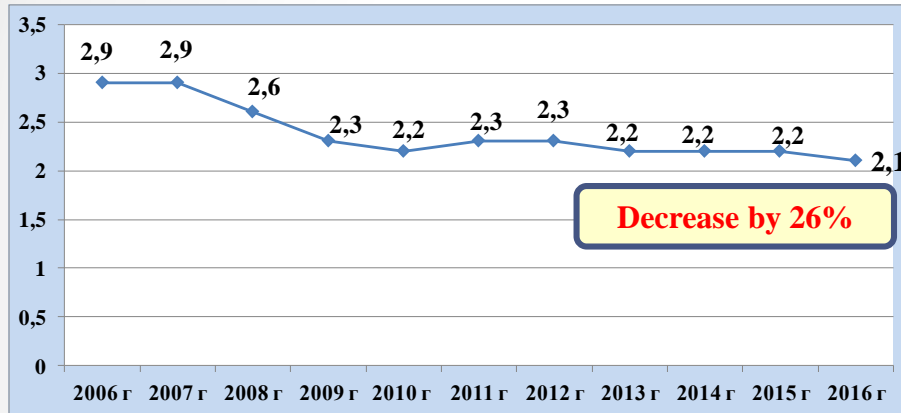
Transition to auction method

Possibility of independent implementation of renewable energy projects by enterprises of MMC

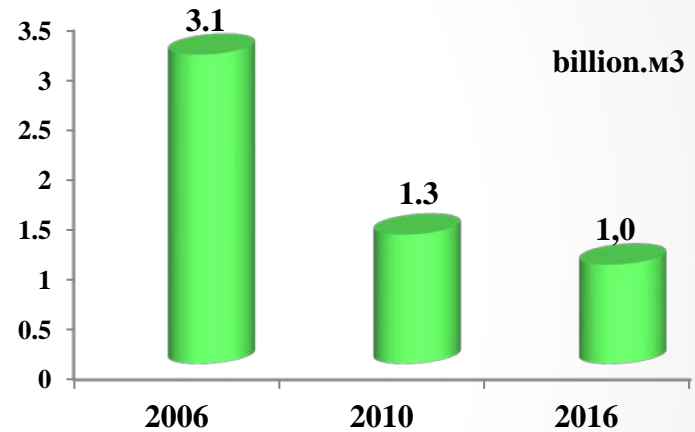


Environmental regulation

Dynamics of emissions of pollutants into the atmosphere from 2006 to 2016
million tons



Dynamics of reducing gas combustion from 2006 to 2015
billion.m3



Main areas of environmental activities

- ✓ Introduction of ecologically effective nature protection measures
- ✓ Reducing emissions and improving the quality of the environment
- ✓ Implementation of programs for processing and utilization of associated petroleum gas



Concept for transition to a green economy

Waste recycling

Share of recycled waste

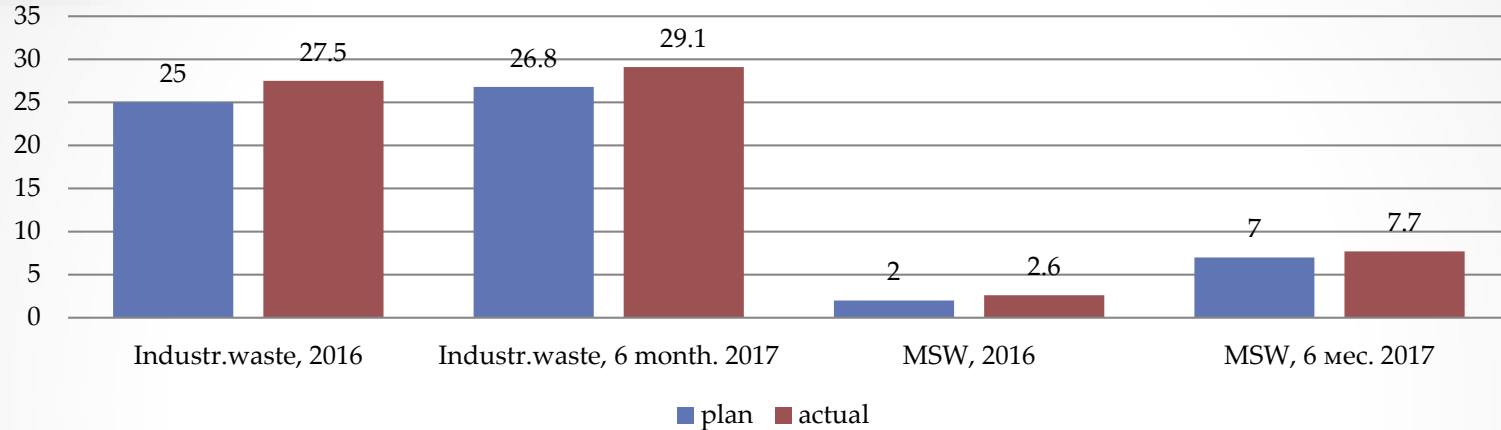
2030

2050

40%

50%

Recycling of Industrial Waste and Solid Household Waste, %



Extended obligations of producers

Waste	Volume of utilization, thousand tons
Used oils	24,2
Accumulators	27,5
Used tires	39,6
Package	40,2
Electrical equipment	4,6

Environmentally Friendly Transport Stimulation

- Stimulation of car industry (production of 18300 environmentally friendly vehicles)
- Certificate Issuance for purchase of environmentally friendly vehicles (23 000 certificates)
- Utilization of decommissioned vehicles (39 665 vehicles)
- EV charging station infrastructure development (120 EV charging station)



Concept for transition of the Republic of Kazakhstan to “green economy”

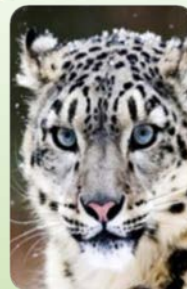
Preservation and effective management of ecosystems, fishery and biodiversity must be performed in accordance with the principles of sustainable development

Prevention of Saiga population disappearance



- Expand the network of specially protected natural areas, main places of Saiga concentration
- As of early 2017, its population is about 152.6 thousand individuals.

Preservation of snow leopards



- “Irbis” project implemented in Jongar-Alatau National Park
- Within the distribution area of the species, 6 national parks have been created in all mountain systems, 3 reserves have been expanded.
- Area of the protected part of the range of leopard has been increased to approximately 30% of its total area within Kazakhstan

Reintroduction of Turanian tiger



- Next year Tiger Reintroduction Program in Kazakhstan will be launched with the creation of “Ile-Balkhash” state natural reservation.
- Memorandum of Cooperation between the Ministry of Agriculture of the Republic of Kazakhstan and the World Wide Fund for Nature signed .

Total area of specially protected natural areas is 24.4 million hectares (8.9% of the country's area)

10 wildlife management areas

12 state national natural parks

5 state botanical gardens

5 state nature reserves

5 state conservation areas

50 state nature sanctuaries

26 state monuments of nature

1 state dendrological park

3 state regional nature parks



«Green Bridge» Partnership Program



<p><i>Mission</i></p>	<p>Leading green economic growth in Central Asia through international cooperation and the facilitation of technology transfer, knowledge exchange, and financial support.</p>
<p><i>Members</i></p>	<p>16 countries и 16 non-governmental organizations</p>
<p><i>Technology transfer</i></p>	<p>GBPP underpins not only technology transfer but also the development and manufacturing of technological solutions locally. Support will be provided to international partnerships, regional innovation and the incubation of entrepreneurial efforts.</p>

«Future energy»

International center for green technologies and investment projects

Purpose

Contribution to global sustainable development through support of green technologies.
 The creation of the center will be based on a long-term strategy for building capacity of Kazakhstan and Central Asian region, using an innovative approach and the best world practices in the transition to a green economy.

Regional focus

- ✓ Countries of Central Asia
- ✓ Iran
- ✓ Afghanistan
- ✓ Mongolia
- ✓ Azerbaijan

Proposed activities

- Transforming the energy sector
- Sustainable urban development
- Greening businesses
- Adaptation technologies and best practices
- Development of green finance International by Astana International Financial Centre
- Development of renewable energy
- Green capacity building