



3rd Multilateral Assessment under 5th cycle of the International Assessment and Review (IAR) process, SBI 61 (Baku, NOV 16,2024)

Kazakhstan's progress towards emission reduction target



OUTLINE

- Economy wide emission reduction target and progress towards it
- Long-term emission reduction target
- Successes and challenges in implementing climate change policies
- New policies
- Experiences with the IAR process



Kazakhstan: Geography

Kazakhstan's **territory** covers – **2.72 mln. sq. km.**

Average temperatures

winter **-11,3 (down to -40 °C)** and
summer **+21,9 (up to +54 °C)**

Population on 1st January 2023: **19,765 mln.** Density (**7 people** per km²)

GDP by production method in 2023: **120 561 096,4** mln KZT or \$ 264 208,8 mln

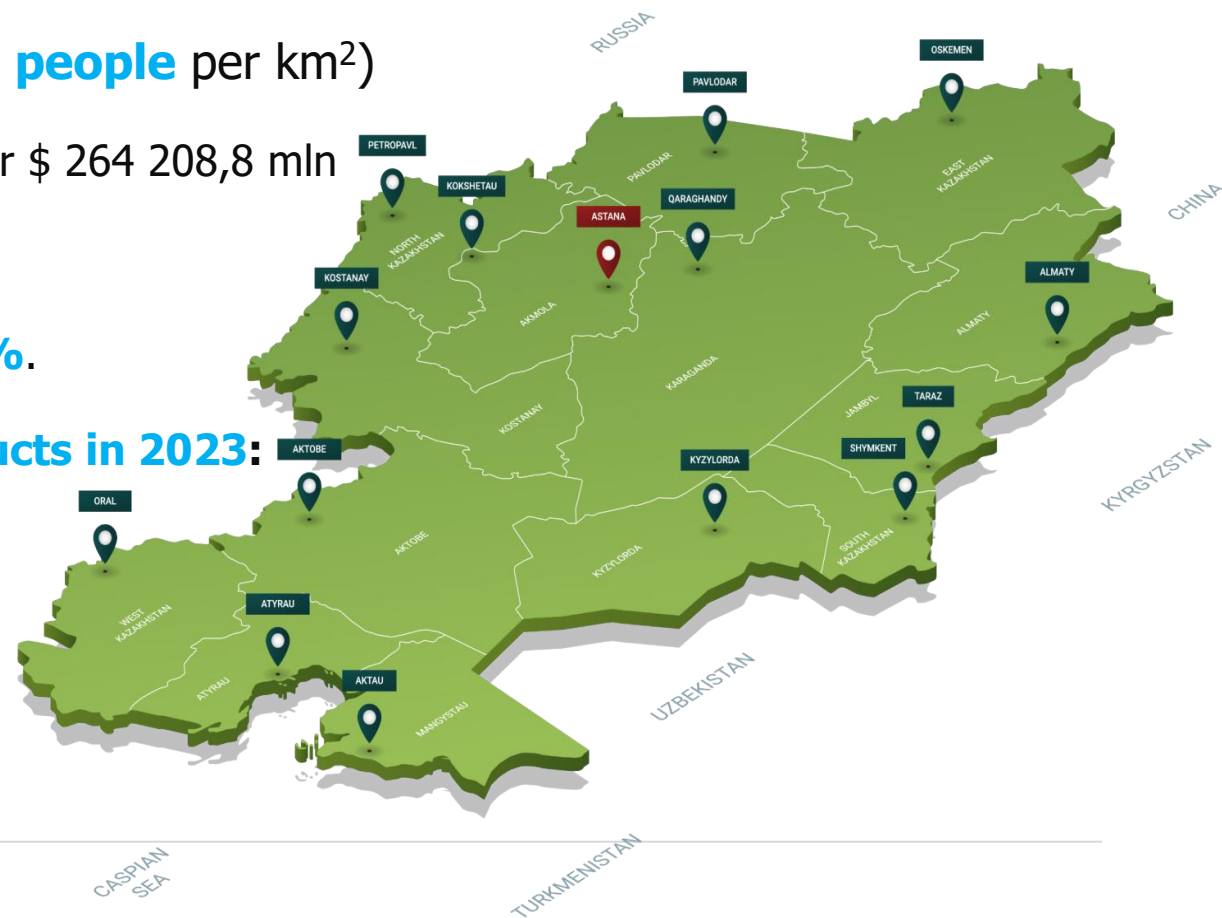
GDP per capita in 2023 – **6.06** mln KZT tenge or \$ 13 276,7

Energy resources in 2023:

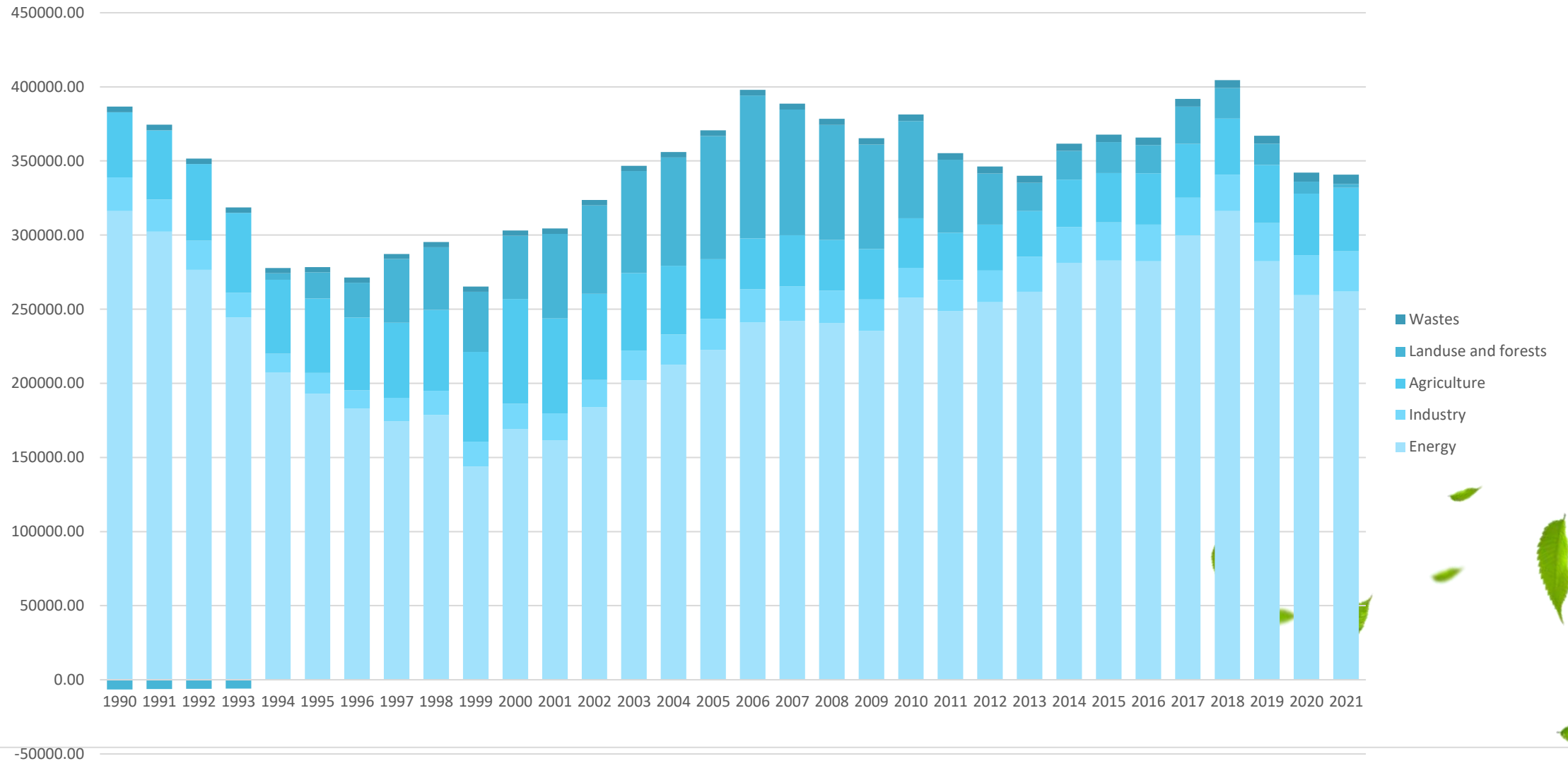
Oil and Gas condensate **52,7%**, Coal **31,0%**, Natural Gas **15,6%**.

Production of the most important types of industrial products in 2023:

- Coal – **112,7** mln tons
- Oil including gas condensate – **90,0** mln tons
- Natural gas – **58,8** billion cubic meters
- Electric power – **112,8** bln kWh.
- Renewable energy – **5,92%**



GHG emissions by sectors, 2021



Long-term emission reduction target

Kazakhstan 2050 Strategy

- 50% alternative and renewable sources of energy till 2050

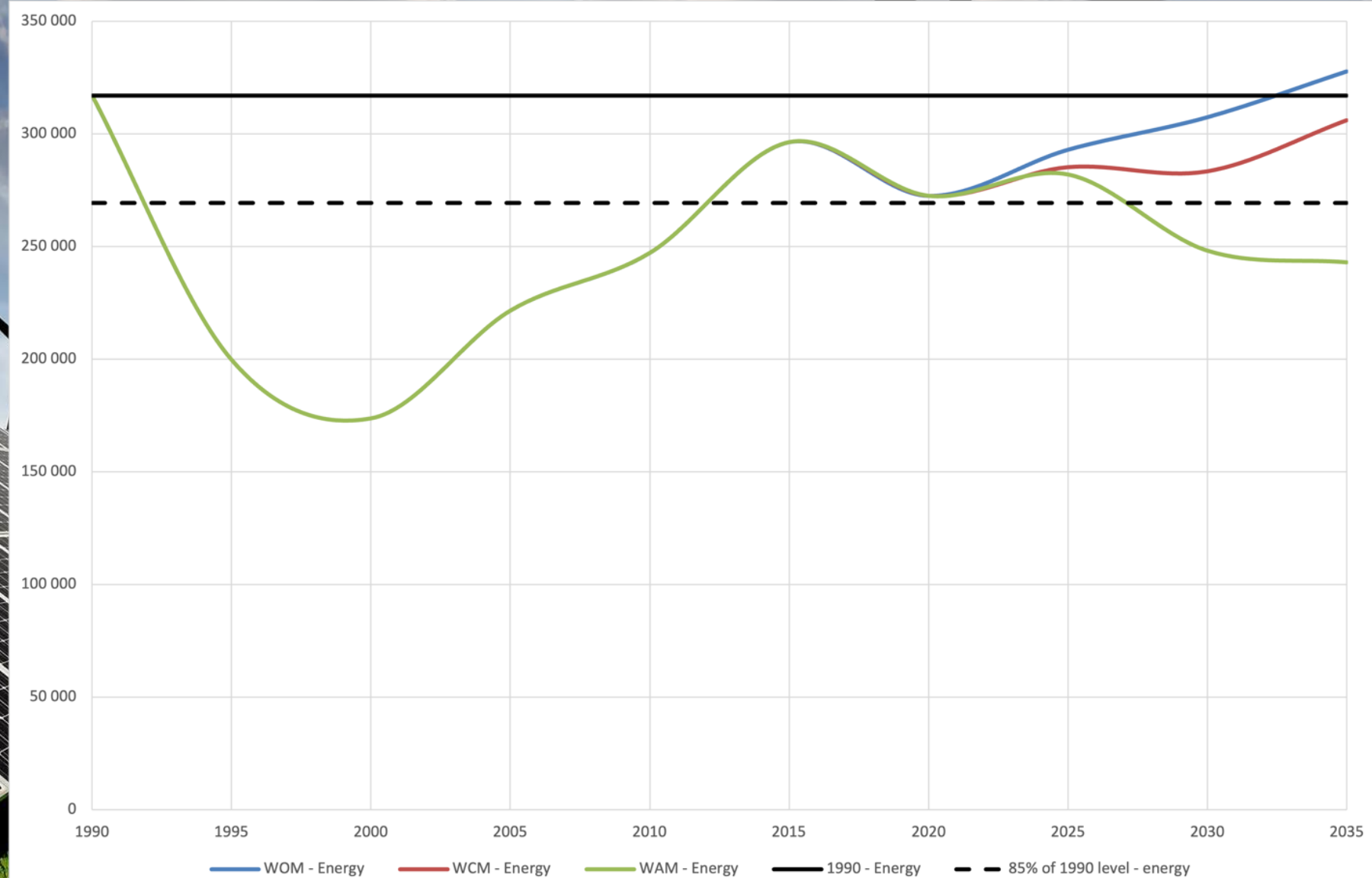
Green economy transition target

- Share of renewables 15% by 2030
- Share of gas power plants 25% by 2030
- CO2 emissions reduction in the power sector 15% by 2030 (2012 - base year)
- Reduction of GDP energy intensity 15% by 2030 (2021 – base year)

Carbon Neutrality 2060

- Carbon and storage of CO2
- Electric cars and 10 times less emissions
- Zero emission from coal and buildings

Forecasts + targets Energy sector





Measures to achieve NDC target

- The energy intensity of GDP should decrease by 38.9% by 2030.
- The carbon intensity of GDP should decrease by 41.4 by 2030%.
- The share of coal in the structure of electricity production will decrease from 68.9% to 40.1%
- Lowering the cap in ETS shall stimulate the carbon price to grow from 1.1 USD to 50.8 USD
- For small emitters a carbon tax on energy resources will be introduced
- These measures on decarbonisation will increase the competitiveness of the Kazakh economy

Successes and challenges in implementing climate change policies

- **Successful steps for better future:**
 - Gasification plans
 - Leveraging Renewable energy sources
 - Updated NDC including adaptation and mitigation Ps&Ms
 - Financial mechanisms for RE and EE/ES
 - Carbon Neutrality Strategy till 2060
- **Challenges**
 - Elimination of dependence on coal and Just transition
 - Introduction of innovative mechanisms for offsetting and cap& trade regulation system
 - Lack of experience in building infrastructure for new market based mechanisms



New Policies: Carbon Neutrality

Action Plan Indicators by 2029

Whats new:

- RES increase 1.5 times;
- 14,5 mln ha covered by forests;
- 60% gasification of the country;
- 20% decrease of contaminants;
- Infrastructure for electric mobiles in big cities;
- Construction of nuclear power plant.

**Investments are \$65,4 per 1 ton of CO₂-eq
(total approx. \$610,0 billions)**

- Energy – 37%
- Transport - 25%,
- industry – 11%,
- buildings – 12%,
- agriculture – 6%.
- CCS – 9%.





Experience and lessons learned

- IAR process motivates for new knowledge and improvement of the reporting quality.
- National Government has a pathway to the Carbon neutrality and international experience in integrating the ETF is needed.



IAR for Kazakhstan

- **11 questions have been received**
 - Progress towards the achievement of its quantified economy-wide emission reduction target – **6**
 - Assumptions, conditions and methodologies related to the attainment of its quantified economy-wide emission reduction target – **3**
 - All emissions and removals related to its quantified economy-wide emission reduction target - **2**



**MINISTRY OF ECOLOGY AND NATYRAL
RESOURCES OF THE REPUBLIC OF
KAZAKHSTAN**

Address

*010000, Astana, Mangilik el ave. 8,
House of Ministries, 15 entrance*

Contacts:

*+7 7172 74-02-28
s.sabieva@ecogeo.gov.kz*



**Рахмет !
Thank
you!
Təşəkkür
edirəm!**