

4TH ROUND OF THE MULTILATERAL ASSESSMENT UNDER IAR PROCESS SBI 52 – 55 (GLASGOW, NOV 5, 2021)

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

Population on 1st September 2021: **19,04 mln.** Density (**7 people** per km²)

GDP by production method in 2020: **70134,1** bln tenge or \$166,6 bln

GDP per capital in 2020 – **3.61** mln. tenge or \$ 8 576

Fuel and Energy resources in 2020:

Coal **35%**, Oil **44,9%**, Gas condensate **7,8%**, Natural Gas **12,3%**.

Production of the most important types of industrial products in 2020:

- Coal – **113,4** mln tons
- Oil including gas condensate – **85,7** mln tons
- Natural gas – **55,4** billion cubic meters
- Electric power – **108,6** bln kWh.
- Renewable energy - **3%**



GHG emissions by sectors, 2019 (%)



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Long-term emission reduction target

Kazakhstan 2050 Strategy

- 50% alternative and renewable sources of energy till 2050

Green economy transition target

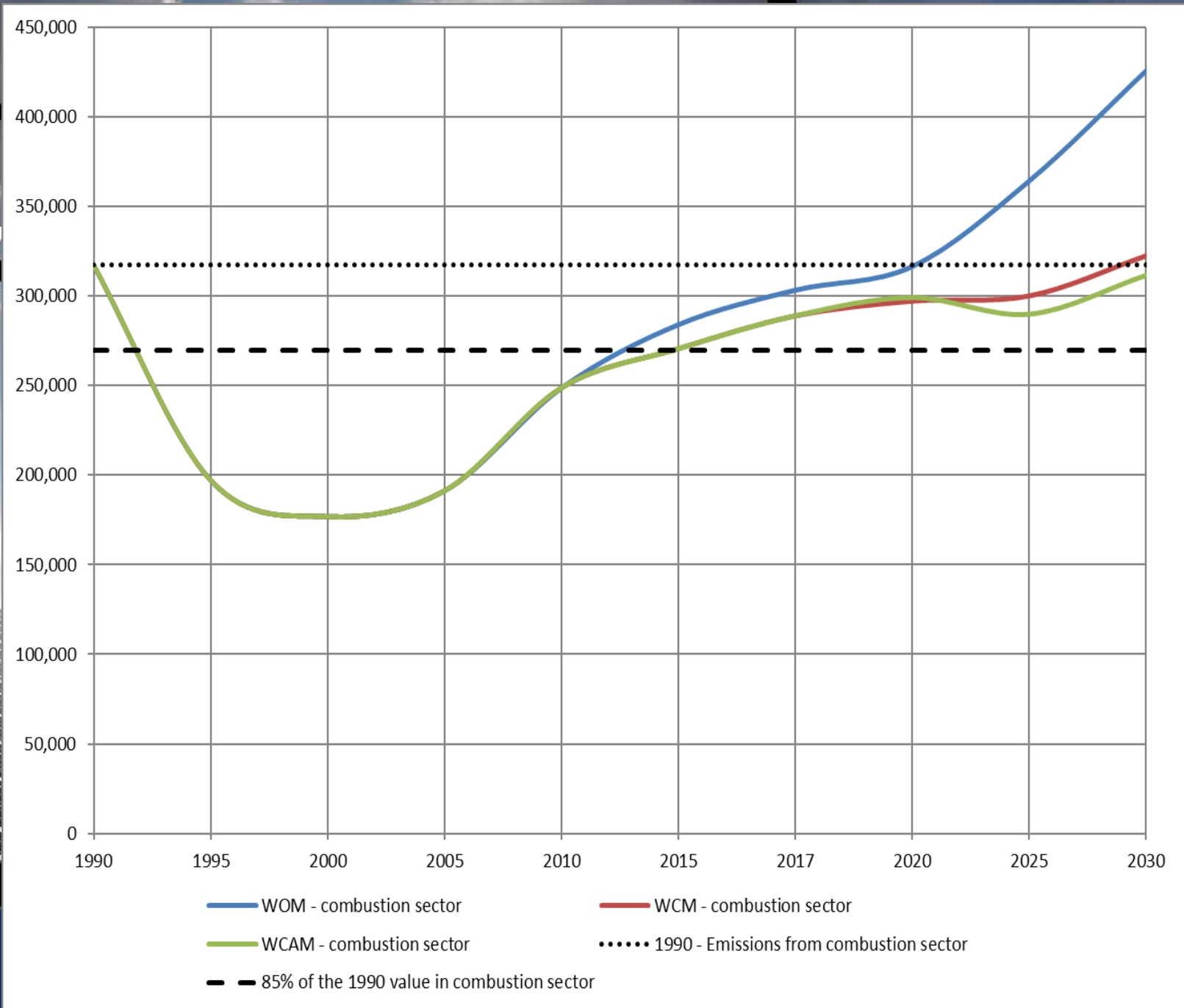
- Share of renewables 10% by 2030
- Share of gas power plants 25% by 2030
- CO2 emissions reduction in the power sector 15% by 2030 (2012 - base year)
- Reduction of GDP energy intensity 30% by 2030 and 50% by 2050

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 implementation of:

- a) Gasification plans
- b) Renewable energy auctions
- c) New legislation on adaptation and mitigation
- d) Financial mechanisms for RE and EE/ES
- e) Implementation of ETS

Challenges

- a) Elimination of dependence on coal
- b) Mainstream NDC implementation to the national plans and programs
- c) Introduction of innovative mechanisms for offsetting
- d) Lack of experience in international market based mechanisms



New Polices: Climate Doctrine

LEDS was transferred to the National Climate Doctrine

What new:

- Adaptation
- Carbon neutrality
- Carbon capture and storage
- Step years with indicators: 2021, 2025, 2030, 2035, 2040, 2045, 2050, 2060.

Investments are \$75 per 1 ton of CO₂-eq (total approx. \$666,5 billions)

- Energy – 46%
- Transport - 25%,
- industry – 10%,
- buildings – 9%,
- agriculture – 7%.
- CCS – 6%.



Experience and lessons learned

- IAR process is transparent
- National Government has a pathway to the Carbon neutrality and international experience especially in technological aspects is needed.



IAR for Kazakhstan

20 questions have been received

- Progress towards the achievement of its quantified economy-wide emission reduction target – **7**
- Assumptions, conditions and methodologies related to the attainment of its quantified economy-wide emission reduction target – **5**
- All emissions and removals related to its quantified economy-wide emission reduction target - **8**



A pair of hands is shown from the wrists down, cupping a small, glowing green globe of the Earth. A single, vibrant green leaf is placed on top of the globe. The background is a soft-focus field of green plants, creating a natural and serene atmosphere. The text is centered over the globe and hands.

**Thank you
Mòran taining**