



**INTERNATIONAL GREEN TECHNOLOGIES  
AND INVESTMENTS CENTER**

**KAZAKHSTAN**

September 2024



## KAZAKHSTAN IS ADHERENT TO INTERNATIONAL CLIMATE COMMITMENTS



**United Nations**  
Framework Convention on  
Climate Change

### The Kyoto Protocol

UNITED NATIONS  
**PARIS CLIMATE  
AGREEMENT**  
SIGNING CEREMONY  
— 22 APRIL 2016 —



# 1995

Kazakhstan ratified the UN Framework Convention on Climate Change

# 2009

Signed the Kyoto Protocol in 1999 and ratified it on March 26, 2009

# 2016

Kazakhstan signed the Paris Agreement on August 2, 2016 and ratified it on December 6, 2016

# KAZAKHSTAN revised NDC Status

## 25%

Kazakhstan's revised NDC commits to a 25% reduction in emissions by 2030, compared to 1990 levels, conditional on international support.

## 15%

The country also set an unconditional emissions reduction target of 15% by 2030, compared to 1990 levels.



The revised NDC includes adaptation components for the first time, with a focus on agriculture, water, forestry, and disaster risk management.



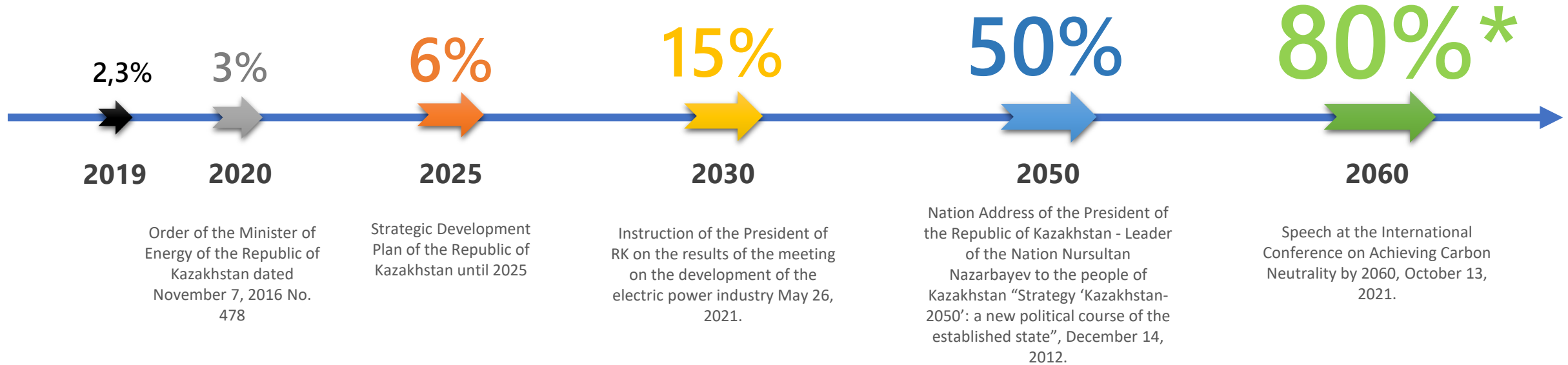
The country plans to expand adaptation measures to other sectors affected by climate change impacts such as health and infrastructure.



Kazakhstan plans to present an updated draft of the Roadmap for NDC implementation between 2023 and 2024 with a focus on long-term low-carbon development.

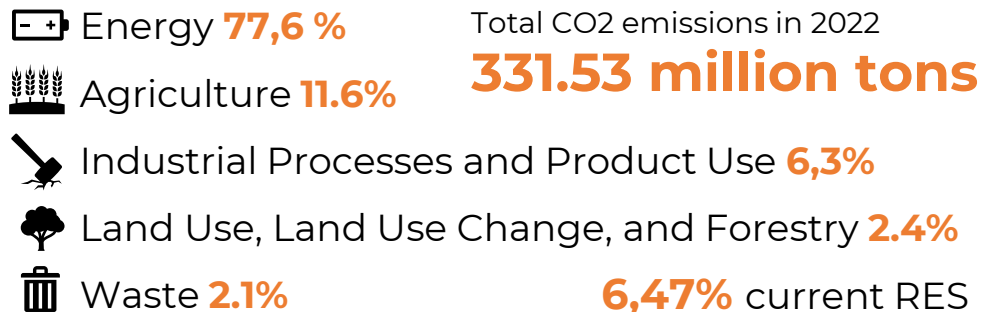
# KAZAKHSTAN HAS SET AMBITIOUS TARGETS FOR RES DEVELOPMENT

Targets for the share of RES electricity generation in the total volume of electricity generation in the Republic of Kazakhstan

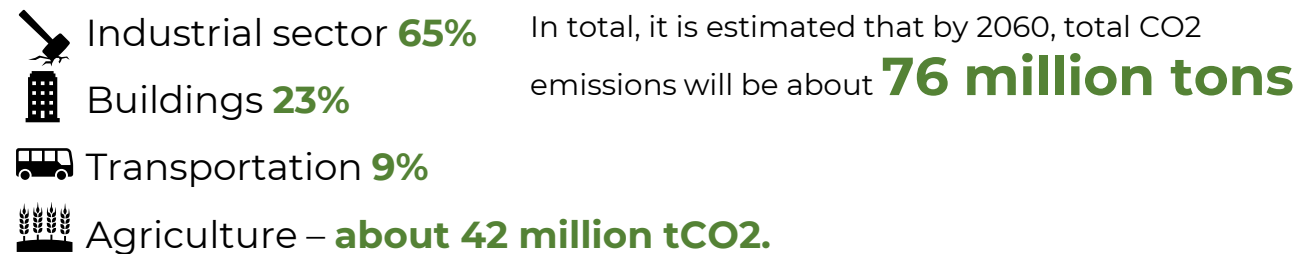


## Strategy for achieving carbon neutrality of the Republic of Kazakhstan until 2060 (February 2, 2023)

Current CO2 emissions in Kazakhstan by sector for 2022



The share of fossil energy resources is 29%; Renewable energy sources (RES) is 70%.



# RENEWABLE ENERGY POTENTIAL IN KAZAKHSTAN



**920**

billion  
kWh/year

wind power  
potential



**62**

billion  
kWh/year

hydropotential



**3**

billion  
sunhour/year

potential solar energy

# INTERNATIONAL GREEN TECHNOLOGIES AND INVESTMENTS CENTER

## Sole shareholder

Ministry of Ecology and Natural Resources of the Republic of Kazakhstan

### Mission

Promotion of green technologies, including [renewable energy projects](#) and business support to increase the competitiveness of the economy, the quality of life of the population and reduce the negative impact on the environment.

### Main functions of the Center

- creating conditions and promoting “green” technologies;
- business support to improve the competitiveness of the economy and the quality of life of the population;
- helping to reduce negative impacts on the environment.

### Objectives of the Center

- transition to “green” business;
- transfer, adaptation of “green” technologies and best practices for the development of “green” finance;
- other measures to stimulate investment;
- development of reference books on BAT and their implementation at large enterprises in order to reduce the negative impact on the environment.

# BEST AVAILABLE TECHNIQUES (BAT)

In order to harmonize the country's legislation with that of OECD countries, a BAT Office was established under the NJSC “International Green Technologies and Investment Projects Center”. After the adoption of the new Environmental Code, active work was started to prepare domestic production sectors for the transition to BAT principles.

## Comprehensive technological audit (CTA)

**106 CTA**

The process of expert assessment of techniques (technologies, methods, methods, processes, practices, approaches and solutions) used at enterprises aimed at **preventing and (or) minimizing** negative anthropogenic impacts on the environment.

## Integrated Environmental Permit (IEP)

For new and reconstructed Category I facilities, obtaining an IEP is mandatory, with an exemption from environmental payments. For existing enterprises, transitioning to an IEP is voluntary, but non-transitioning

**TOP-50 companies**

will face increasing environmental payment rates—doubling every three years starting

**January 1, 2025.**

## Development of Best Available Techniques reference books

The directories developed by IGTIC fully cover the activities of large enterprises included in the TOP-50.

✔ **16 BAT reference books 2021 - 2023**

**16 BAT reference books 2024 - 2027**

Expected emission reductions  
**950 000 tCO<sub>2</sub> per year**

Our initiative: **Regional Bureau of Best Available Techniques**

IGTIC assists in **finding potential investors** for the implementation of green technologies and projects.

**Directions:** energy efficient solutions, **renewable energy sources**, waste recycling.

Our partners



GREEN CLIMATE FUND



UNOPS



## REGISTER OF GREEN TECHNOLOGIES AND PROJECTS

The **register** is a systematized, periodically updated and updated collection of data on “green” technologies and projects of domestic manufacturers and suppliers of green technologies and equipment.

## INTERNATIONAL GRANT PROJECTS

the Country Programs of the Republic of Kazakhstan for obtaining direct access to the funds of GCF

### Readiness II

**Budget:** \$998 thousand  
**Implementation period:** 2023 -2024 years

### Readiness III

**Planning budget:** \$1 million  
**Implementation period:** 2025 -2026 years

### Establishment of the Carbon Fund

Implementation period: till **January 01, 2025**.

Responsible executors: IGTIC, Central Asia Climate Foundation

### GCIP-Kazakhstan (UNIDO)

**Budget:** \$1 million 433 thousand  
**Implementation period:** 2023 -2025 years

**45 GCIP**-accelerated startups were selected in 2023

**32 GCIP**-accelerated startups were selected in 2024

### KPI

**135 000 tCO2** directly

**675 000 tCO2** indirectly

**1.5 million** US dollars investment





THE VIEWS EXPRESSED ARE THOSE OF MR. DIDAR KARIMSAKOV (IGTIC) AND DO NOT NECESSARILY REFLECT THE VIEWS OF THE UNITED NATIONS.

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