



Ministry of Ecology and Natural Resources  
Republic of Kazakhstan

# MEASURES TO IMPROVE AIR QUALITY IN KAZAKHSTAN IN 2023 AND PLANS FOR 2024

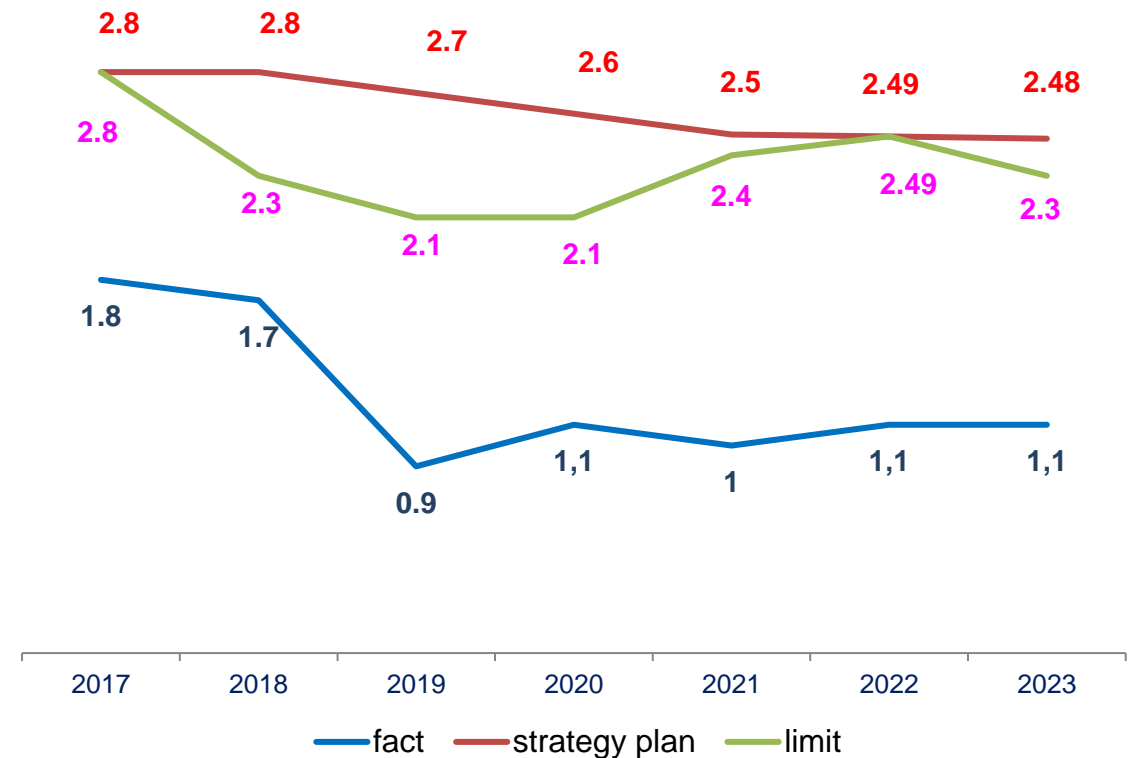
2024

# DYNAMICS OF EMISSIONS OF POLLUTANTS

DYNAMICS OF EMISSIONS OF POLLUTANTS INTO ATMOSPHERE,  
million tons

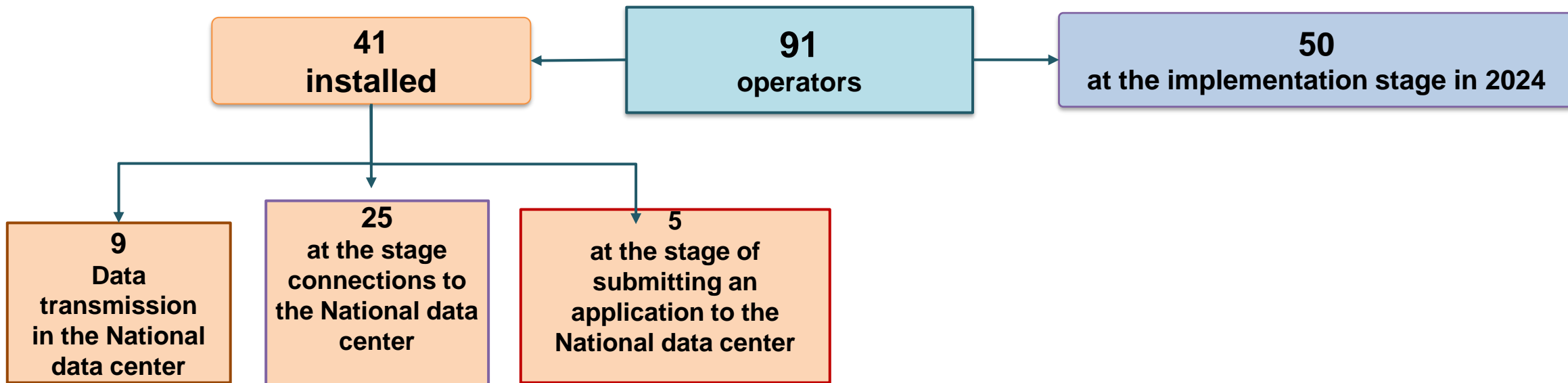


DYNAMICS OF POLLUTANT DISCHARGES,  
million tons



# Automated monitoring system (AMS)

Article 418 of the Ecology codecs Republic of Kazakhstan mandatory availability of an automated monitoring system emissions since January 1, 2023



AMS of operator



National data center

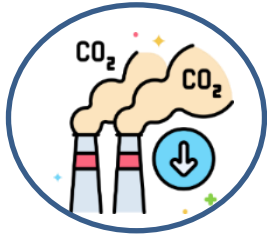


Online monitoring in the Ministry



# EMISSIONS TRADING SYSTEM (ETS)

43% of total national greenhouse gas emissions



**159**  
million tons of CO2

**181**  
Mill.tons CO2

Unregulated ETS sectors

Regulated sectors of the economy

**128**

LARGE INDUSTRIAL COMPANY

**199**

QUOTA-BASED INSTALLATIONS

**61**

BENCHMARKING METHOD

**5**

NATIONAL PLANS SINCE 2013



energy



Oil and gas industry



Mining industry



Metallurgical industry



Chemical industry



Manufacturing industry

❖ Average price per 1 tone CO2 ~ 1\$

# OFFSET MECHANISM

## Approved large-scale carbon offset projects in the renewable energy

### «CATEC Green Energy» LLP

project – «Wind Power Plant «Астана EXPO-2017»  
The implementation period – 2022  
The number of reduction units is – 160 000 tons of CO2

### «First Wind Rower Plant» LLP

project – «WTU 2.0 Wind Rower Plant in Yerementau town»  
The implementation period– 2021  
The number of reduction units is– 120 000 tons of CO2

### «Total Eren Services Kazakhstan» LLP

project – «Shu Solar Power Plant with a capacity of 100 MW»  
The implementation period– 2021  
The number of reduction units is– 150 000 tons of CO2

- ❖ **63** offset projects of renewable energy were approved for 2021-2023 yy.
- ❖ The total amount of reduction is about **4 million tons CO2**



# INTERNATIONAL INITIATIVES AND PROJECTS

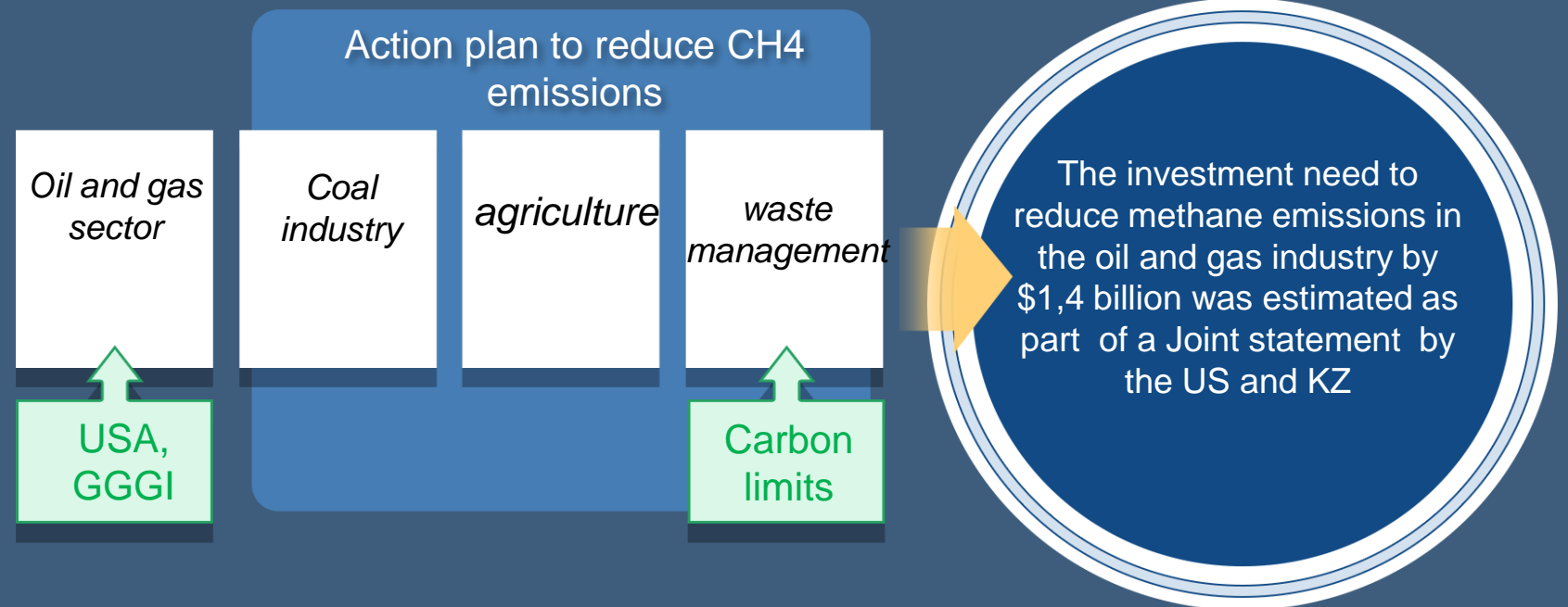
## Action plan

*The action plan for reducing methane emissions provides for the implementation of major project in of coal industry, agriculture, waste management, the total amount of which is about **1,4 billion. US dollars.***

## Joining the Global Methane Pledge

Reducing methane emissions -30% by 2030 on global scale.

Support from the USA and the EU to reduce methane emissions in Kazakhstan



# INTERNATIONAL INITIATIVES AND PROJECTS

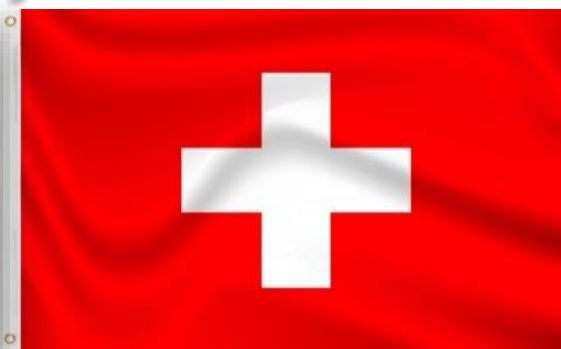
JCM

**A memorandum on a Joint Credit Mechanism has been signed between the governments of Kazakhstan and Japan**







Planting of forests on the territory of Akmola region with an area of 14000 hectares

**Partners in the implementation of climate projects**



# Plans of the Ministry of ecology and nature resources Republic of Kazakhstan on the 2024 year

-  Development of a National quota allocation for the period 2026-2030 yy. with an increase in the annual quota reduction rate (at about 2.7%) and the introduction of an auction mechanism
-  Development of a New National Contribution for the period 2031-2035 yy.
-  Development of BAT Reference Books for the remaining industries of the 1<sup>st</sup> category
-  Creation of 3 laboratories in the new Departments of ecology



**THANK YOU FOR YOUR ATTENTION!**