

KazETS - Emissions Trading System of the Republic of Kazakhstan



-15%

2030 г.

The only tool for carbon regulation



Type of system launched in 2013



CO2

Type of greenhouse gas in the system



Number of installations in the system

Sectors in the system



Volume of GHG emissions covered by the system, million tons of CO2

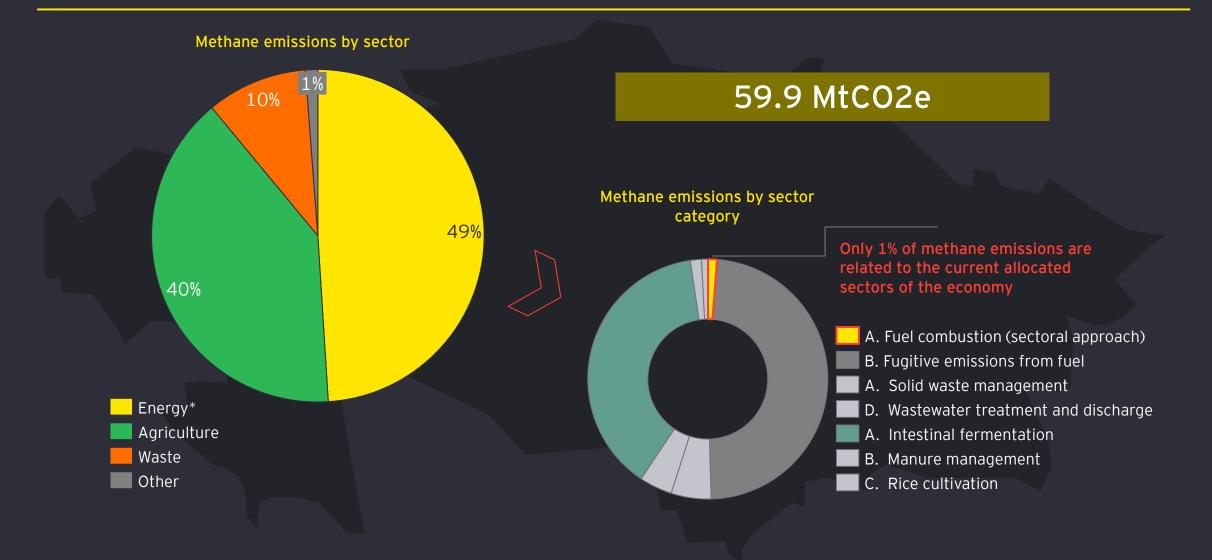


Participation threshold, tons CO2





Methane (CH4) emissions in Kazakhstan in 2021, according to the UNFCCC





Regulation of methane (CH4) emissions in the emissions trading system

Страна	# *		*	*	*				*1
ETS	Korean ETS	New Zealand ETS	Alberta OBPS	Canada Nova Scotia	Canada Quebec	USA California Cap and Trade	USA Oregon	USA Washington	China Chongqing pilot system
GHG	CO2, <mark>CH4</mark> , N2O, PFCs, HFCs, SF6	CO2, <mark>CH4</mark> , N2O, SF6, HFCs, PFCs	CO2, CH4, N2O, NFCs, SF6, PFCs, NF3	CO2, CH4, N2O, SF6, NF3, HFCs, PFCs	CO2, <mark>CH4</mark> , N2O, SF6, HFCs, PFCs, NF3	CO2, <mark>CH4</mark> , N2O, SF6, HFCs, PFCs, NF3	CO2, <mark>CH4</mark> , N2O and HFCs, PFCs, SF6, NF3	CO2, <mark>CH4</mark> , N2O, SF6, HFCs, PFCs, NF3	CO2, <mark>CH4</mark> , N2O, HFCs, PFCs, SF6
Cap/ Total emission s, million tons of CO2-e	589,3/727	32.2 /78.8	-/153.9	12.1/14,6	52.8/74.1	294.1/ 369.2	28/62	63 /102.1	78.39/ 142.89
Sectors	 Industry Energy Waste Domestic aviation Transport Building 	 Industry Energy Waste Domestic aviation Transport Building Forestry 	► Industry ► Energy	IndustryEnergyTransportBuilding	IndustryEnergyTransportBuilding	IndustryEnergyTransportBuilding	IndustryEnergyTransportBuilding	IndustryEnergyTransportBuilding	► Industry



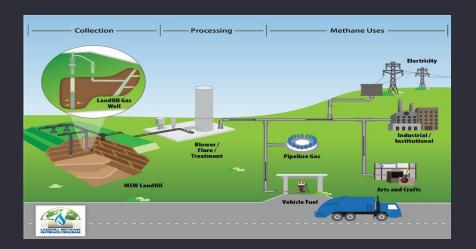
Regulation of methane (CH4) emissions in the offset project system



Alberta Offset System

Approved protocols (methods):

- 19 approved protocols:
- Verification by independent auditors in accordance with ISO approaches;
- The offset price is pegged to the price set by the regulator for OBPS loans (65 CAD in 2023).
- 55.3 MtCO2-eq of offsets and 270 offset projects are registered in the system (8.5 MtCO2-eg are active).



A study of world practice shows that it is possible to implement offset projects related to methane emissions to generate carbon units that can be used by plant operators to offset liabilities.

Methodologies for offset projects in the field of reducing methane emissions

Aerobic Composting Quantification Protocol

Quantification protocol for an aerobic bioreactor at a landfill

Biofuel Production and Use Quantification Protocol

Biogas Production and Combustion Quantification Protocol

Energy production from waste biomass combustion

Protocol for the Quantification of Greenhouse Gas Emission Reductions from Pneumatic Devices

Landfill Gas Capture and Flare Quantification Protocol

Protocol for Quantifying Greenhouse Gas Emission Reductions from Fattened Cattle

Quantification Protocol for Selection of Low Residual Feed Consumption in Beef Cattle

Protocol for quantifying the reduction of off-gas emissions

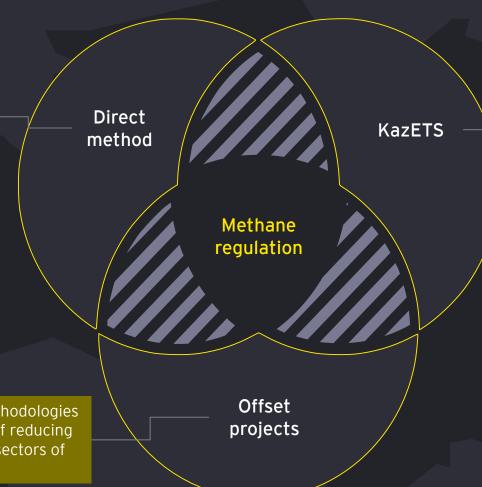


Regulation of methane emissions in Kazakhstan



Establishment by the state of direct obligations to reduce methane emissions, implementation of:

- LDAR programs in Oil and Gas sector are part of the Fir for 55 in the EU not guaranteed to be covered by EU ETS;
- MRV quality improvement (core);
- Orders/permits, state strategies;



Expansion of the existing ETS by:

- Cover of methane in ETS;
- Allocate the agriculture and the waste sector in the future;
- Regulation of fugitive (fugitive) methane emissions from the industry and energy sector;

Development / approval of methodologies for offset projects in the field of reducing methane emissions in various sectors of the economy



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