

# **National Action Plan for ratification of the Conventions' key Protocols**

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# Background

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- The draft National Action Plan has been developed in the framework of the project “Assessment and enhancement of the national capacity of Kazakhstan to ratify the key protocols of the Convention on Long-range Transboundary Air Pollution (Air Convention) and development of a national action plan for ratification” commissioned by UNECE.
- Aim: to enhance the capacity of the country to join the protocols to CLRTAP and meet the corresponding commitments through the development of the National Action Plan.

# Background

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- Selected ratification scenario – **31 December 2024**

The requirements can be subdivided into groups by major types:

1. Development and approval of strategic documents,
2. Development of the emission inventories, emission projections and regular reporting to the secretariat of the Convention,
3. Development and integration of the legal acts,
4. Introduction of the integrated permitting system,
5. Development and introduction of measures aimed at reduction of emissions, and
6. Air quality monitoring.

# Background

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For each of the requirements this chapter presents the following information:

- Reference to the specific requirements of the protocols,
- Brief description of the overall principles selected for fulfilment of each specific requirement,
- Brief description of the main activities that will be implemented in order to fulfil the specific requirement,
- Responsible executing body (bodies),
- Estimated costs of implementation of the activities,
- Timescale for execution, and
- Additional comments (where applicable).

# Task 1: Development and approval of strategic document

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- Subtask 1.1. Development and approval of National Strategic Documents

Possible source of financing	Current expenses
Executor	Ministry of Ecology, Geology and Natural Resources
Costs (EUR)	No additional costs (current expenses of Ministry of Ecology, Geology and Natural Resources)
Execution timescale	From 2021 to 2022

## **Task 2: Development of the emission inventories, emission projections and regular reporting to the Secretariat of the Convention**

- Subtask 2.1. Develop Emission Inventory (HM, POPs, GP)

Activity 2.1.	Implement a study aimed at improvement of detailed emission inventory including information on the past and present levels of emissions based on the methodologies stipulated in the protocols.
Possible source of financing	State budget (or international cooperation programmes)
Executor	Environmental Regulation and Control Committee of the Ministry of Ecology, Geology and Natural Resources (coordinator) in cooperation with the Ministry of the Interior, Ministry of Health Care, Ministry of Industry and Infrastructure Development; Committee of Technical Regulation (Ministry of Trade and Integration), Committee on Statistics (Ministry of National Economy), Ministry of Agriculture, Ministry of Energy, Ministry of Digital Development, Innovation and Aerospace Industry
Costs (EUR)	100 000
Execution timescale	From 2022 to 2024

## Task 2: Development of the emission inventories, emission projections and regular reporting to the Secretariat of the Convention

- Subtask 2.2. Development of emission projections

Action 2.2.	Implement a project aimed at establishment of a framework for the development of emission projections
Action 2.2.1.	Create methodological and administrative framework for emission projections development
Action 2.2.2.	Improve capacity of governmental institutions through organisation of trainings for the relevant institutions
Action 2.2.3.	Develop emission projections for the required period
Possible source of financing	State budget (or international cooperation programmes)
Executor	Ministry of Ecology, Geology and Natural Resources (coordinator) in cooperation with the Ministry of the Interior, Ministry of Foreign Affairs, Ministry of Health Care, Ministry of Industry and Infrastructure Development, Committee on Statistics (Ministry of National Economy), Ministry of Agriculture, Ministry of Energy, Ministry of Digital Development, Innovation and Aerospace Industry, Committee of Customs Control (Ministry of Finance), Ministry of Trade and Integration.
Costs (EUR)	50 000
Execution timescale	From 2022 to 2024

## **Task 2: Development of the emission inventories, emission projections and regular reporting to the Secretariat of the Convention**

- Subtask 2.3. Maintain emission inventories and projections and report to the Executive body of the Convention/EMEP

Action 2.3A	Implement a project aimed at enhancement of legislative, institutional and human capacities for development of the yearly emission report in compliance with the requirements of the Convention.
Action 2.3A.1	Based on the assessment of the current situation and existing gaps develop legislative and administrative framework for emission inventory maintenance.
Action 2.3A.2	Improve capacity of governmental institutions through organisation of trainings for the relevant institutions.
Possible source of financing	International cooperation programmes (alternatively: State budget)
Executor	Committee of Ecological Regulation and Control of the Ministry of Ecology, Geology and Natural Resources (coordinator) in cooperation with Zhasyl Damu as a part of the IGTIC (subcontractor identified annually on the basis of a tender). Information provided by: Ministry of Industry and Infrastructure Development, Committee on Statistics (Ministry of National Economy), Ministry of Agriculture, Ministry of Energy, Ministry of Digital Development, Innovation and Aerospace Industry
Costs (EUR)	50 000 (or less if financed from the State budget)
Execution timescale	From 2022 to 2024



## **Task 2: Development of the emission inventories, emission projections and regular reporting to the Secretariat of the Convention**

- Subtask 2.3. Maintain emission inventories and projections and report to the Executive body of the Convention/EMEP

Action 2.3B	Ensure availability of human resources – 3 additional staff members (Ministry of Ecology, Geology and Natural Resources – 1, Committee of ecological regulation and control -1, Zhasyl Damu – 1).
Possible source of financing	State budget
Executor	Ministry of Ecology, Geology and Natural Resources; Committee of ecological regulation and control; Zhasyl Damu
Costs (EUR)	9 750 per year (3 250 per person per year)
Execution timescale	From 2022

## Task 3: Development and integration of legal acts

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- Subtask 3.1. National emission targets to be integrated into the national legislation

Action 3.1.	Integrate emission reduction commitments into the national legislation
Possible source of financing	State budget
Executor	Ministry of Ecology, Geology and Natural Resources
Costs (EUR)	5 000
Execution timescale	2023-2024

## Task 3: Development and integration of legal acts

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- Subtask 3.2. Harmonisation of fuel quality standards with the requirements of the Protocols

Action 3.2.	Develop and implement amendments to the existing fuel quality standards
Possible source of financing	Current expenses, state budget
Executor	Transport Committee of the Ministry of Industry and Infrastructure Development; Committee for Technical Regulation and Metrology of the Ministry of Trade and Integration
Costs (EUR)	2 500
Execution timescale	2022

## Task 3: Development and integration of legal acts

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- Subtask 3.3. Development of the legal act limiting mercury content in alkaline manganese batteries

Action 3.3.	Develop legal act defining maximum concentration of mercury in alkaline manganese batteries
Possible source of financing	Current expenses, state budget
Executor	Ministry of Ecology, Geology and Natural Resources (Department of Waste Management Policy)
Costs (EUR)	2 500
Execution timescale	From 2021 to 2022

## Task 3: Development and integration of legal acts

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- Subtask 3.4. Develop and introduce emission limit values for mobile sources

Action 3.4.	Implementation of a project aimed at the development of the optimal and most efficient policies introducing transition to stricter emission limit values for mobile sources.
Action 3.4.1	Assessment of the current situation (incl. gap analysis)
Action 3.4.2	Development of legal acts/Introduce changes to the current legislation
Possible source of financing	State budget
Executor	Transport Committee of the Ministry of Industry and Infrastructure Development; Committee for Technical Regulation and Metrology of the Ministry of Trade and Integration
Costs (EUR)	10 000
Execution timescale	2022 – 2023

# Task 4: Introduction of the integrated permitting system

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- Subtask 4.1. Introduction of emission limits and best available techniques

Action 4.1A	Implementation of a project aimed at transition towards the integrated permitting system
Action 4.1A.1	Assess the current situation (incl., current state of the art of national industry and feasibility of transition to integrated permitting system) and organize comprehensive stakeholder engagement and capacity building campaign
Action 4.1A.2	Improve capacity of governmental institutions and operators
Action 4.1A.3	Ensure availability of necessary technical and technological capacities
Possible source of financing	State budget with support of international cooperation programmes
Executor	Committee on Ecological Regulation and Control of the Ministry of Ecology, Geology and Natural Resources in Cooperation with International Green Technologies & Investments Center
Costs (EUR)	High (to be determined before implementation of the actions)
Execution timescale	From 2021 to 2024

## Task 4: Introduction of the integrated permitting system

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- Subtask 4.1. Introduction of emission limits and best available techniques

Activity 4.1B	Implementation of a project aimed at monitoring of the functionality of the earlier introduced integrated permitting system
Action 4.1B.1	Assess the current situation, perform monitoring of the implemented system
Action 4.1B.2	Ensure availability of technical capacity
Action 4.1B.3	Improve capacity of governmental institutions
Possible source of financing	State budget with support of international cooperation programmes
Executor	Committee on Ecological Regulation and Control of the Ministry of Ecology, Geology and Natural Resources
Costs (EUR)	150 000
Execution timescale	From 2029 to 2030

## Task 4: Introduction of the integrated permitting system

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- Subtask 4.2. Facilitate exchange of technologies and availability of information regarding BAT

Action 4.2	Implement a project aimed at dissemination of information regarding the principles of BAT and development of the national framework of the information exchange
Action 4.2.1	Organise an information campaign regarding clean technologies and BATs
Action 4.2.2	Establish information exchange framework
Possible source of financing	State budget (or international cooperation programmes)
Executor	International Green Technologies and Investments Center
Costs (EUR)	100 000 (to be confirmed after the ratification)
Execution timescale	2024



## Task 5: Development and introduction of measures aimed at reduction of emissions

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- Subtask 5.1. Development of measures aimed at reduction of VOC emissions

Action 5.1A	Implement a study aimed at the assessment of potential for reduction of VOC emissions through introduction of the regulatory control for VOC content in specific products
Action 5.1A.1	Assessment of the current situation and gaps
Action 5.1A.2	Development of necessary legislative acts or amendments in existing legal acts
Possible source of financing	International cooperation programmes (if implemented with Activity 5.1B and 5.1C) and State budget
Executor	Ministry of Ecology, Geology and Natural Resources; Ministry of Industry and Infrastructure Development
Costs (EUR)	20 000
Execution timescale	From 2023 to 2024

## Task 5: Development and introduction of measures aimed at reduction of emissions

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- Subtask 5.1. Development of measures aimed at reduction of VOC emissions

Action 5.1B	Implement a study aimed at assessment of potential for introduction of specific measures aimed at reduction of VOC emissions from petrol storage and distribution
Action 5.1B.1	Assessment of the current situation
Action 5.1B.2	Development of necessary legislative acts
Possible source of financing	International cooperation programmes (if implemented with Activity 5.1A and 5.1C) and State budget
Executor	Ministry of Ecology, Geology and Natural Resources; Ministry of Industry and Infrastructure Development
Costs (EUR)	25 000
Execution timescale	From 2023 to 2024

## Task 5: Development and introduction of measures aimed at reduction of emissions

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- Subtask 5.1. Development of measures aimed at reduction of VOC emissions

Action 5.1C	Implement a project aimed at assessment of the potential options for reduction of emissions from the waste products containing VOC
Action 5.1C.1	Assess the current situation
Action 5.1C.2	Develop legal acts/Introduce changes to the current legislation
Possible source of financing	International cooperation programmes (if implemented with Activity 5.1A and 5.1B) and State budget
Executor	Ministry of Ecology, Geology and Natural Resources; Ministry of Industry and Infrastructure Development
Costs (EUR)	25 000
Execution timescale	From 2023 to 2024

## Task 5: Development and introduction of measures aimed at reduction of emissions

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- Subtask 5.2. Development and enforcement of a Code of Good agricultural practice or equivalent to reduce ammonia emissions (NH<sub>3</sub>)

Action 5.2	Implementation of a project aimed at promotion of environmentally sound agricultural practice or equivalent and establishment of the necessary legal framework
Action 5.2.1	Assessment of the current situation in Kazakhstan and best practices applied in other developed countries
Action 5.2.2	Development of legal acts
Action 5.2.3	Improvement of capacity of governmental institutions and other stakeholders
Action 5.2.4	Organisation of an information campaign
Possible source of financing	State budget (or international cooperation programmes)
Executor	Ministry of Agriculture and Ministry of Ecology, Geology and Natural Resources
Costs (EUR)	500 000
Execution timescale	From 2022 to 2024

## Task 5: Development and introduction of measures aimed at reduction of emissions

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- Subtask 5.3. Encourage development of research in the field of air quality

Action 5.3	Perform an analysis and determine the priority topics for further channelling of financial support
Possible source of financing	Current expenses of Ministry of Ecology, Geology and Natural Resources
Executor	Ministry of Ecology, Geology and Natural Resources; Ministry of Education and Science, Ministry of Health
Costs (EUR)	Ad hoc
Execution timescale	From 2022 onwards

## Task 5: Development and introduction of measures aimed at reduction of emissions

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- Subtask 5.4. Develop economic, voluntary or regulatory measures for reduction of emissions

Action 5.4	Implement a project aimed at assessment of effectiveness of existing measures, current situation and available studies, and determine priorities for development of the most appropriate economic, regulatory and voluntary measures aimed at reduction of emissions.
Possible source of financing	State budget
Executor	Ministry of Ecology, Geology and Natural Resources; Ministry of Agriculture, Local municipalities (Akimats)
Costs (EUR)	Medium (5 000 – 50 000, to be confirmed after the ratification)
Execution timescale	From 2025 to 2026

## Task 5: Development and introduction of measures aimed at reduction of emissions

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- Subtask 5.5. Further improve energy efficiency and encourage use of renewable energy and less polluting types of fuel or/and promote the implementation of the existing programmes

Action 5.5	Assess the effectiveness of the earlier implemented measures and programmes aimed at improvement of energy efficiency, use of renewable energy and promotion of the use of less polluting types of fuel and if necessary, development of additional/new measures
Possible source of financing	State budget
Executor	Ministry of Ecology, Geology and Natural Resources, Ministry of Energy, Ministry of Agriculture, Ministry of Industry and Infrastructure Development.
Costs (EUR)	30 000
Execution timescale	From 2025 to 2026

## Task 5: Development and introduction of measures aimed at reduction of emissions

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- Subtask 5.6. Introduce measures for development of less polluting transport systems and promote the implementation of the existing programmes

Action 5.6	Implement a project aimed at assessment of the effectiveness of the earlier implemented measures and programmes and development the additional or new measures
Possible source of financing	State budget
Executor	Ministry of Ecology, Geology and Natural resources, Committee of transport (MIIR); Local Municipalities (Akimats of Nur-Sultan, Almaty, Aktobe, Shymkent)
Costs (EUR)	20 000
Execution timescale	From 2023 to 2024



## Task 5: Development and introduction of measures aimed at reduction of emissions

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- Subtask 5.7. Investigate the potential for introduction of measures aimed at control of mercury content in products, such as electric and electronic devices, medical equipment, luminescence lamps, pesticides, paints etc.

Action 5.7	Perform assessment of the current situation and investigate potential for introduction of regulatory or voluntary measures
Possible source of financing	State budget
Executor	Ministry of Ecology, Geology and Natural Resources; Ministry of Digital Development, Innovation and Aerospace Industry; Ministry of Health
Costs (EUR)	5 000
Execution timescale	2024

## Task 6: Air quality assessment

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- Subtask 6.1. Improve air quality monitoring in accordance with the requirements of the protocols and EU legislation

Action 6.1A	Improve air quality monitoring system in accordance with international standards
Action 6.1A.1	Improve capacity of governmental institutions
Action 6.1A.2	Ensure availability of human resources
Action 6.1A.3	Ensure availability of necessary monitoring equipment
Action 6.1B	Improve understanding of spatial distribution of pollution concentrations through pollution dispersion modelling and indicative air quality measurements
Action 6.1B.1.	Develop legal framework for application of pollution dispersion modelling as air quality assessment tool at municipal level
Action 6.1B.2	Improve capacity of governmental institutions
Action 6.1B.3	Implement pilot projects aimed at assessment of spatial distribution of pollution concentrations through pollution dispersion modelling and indicative air quality measurements
Action 6.1C	Assessment (modelling and mapping) of Critical Loads and Levels based on available data
Possible source of financing	State budget and international cooperation programmes
Executor	Ministry of Ecology, Geology and Natural Resources (Kazhydromet)
Costs (EUR)	High (to be determined before implementation of the Actions)
Execution timescale	From 2022 to 2025

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**Thank you for attention!**