

Roadmap for the establishment of a national Shared Environmental Information System

Kazakhstan

Objective 1: Include missing indicators in the core set of UNECE environmental indicators.

Priority: High

Timeframe for fulfilment: 2019–2020

Actions required:

In accordance with the requirements of the UNECE Guidelines on Environmental Indicators, the Ministry of Ecology, Geology and Natural Resources of the Republic of Kazakhstan (MEGNR), which is responsible for the formation and implementation of state policy in environmental protection, should ensure the development of the following core indicators:

- Population connected to wastewater treatment;
- Wastewater treatment facilities;
- Freshwater abstraction;
- Total water use;
- Water supply industry and population connected to the water supply industry.

The task must be resolved at the national level. The support of international organizations is not required.

Objective 2: Increase the quantity of data sets in UNECE environmental indicators.

Priority: Medium

Timeframe for fulfilment: 2019–2021 subject to methodological support under the UNDA project

Actions required:

MEGNR should ensure the online availability and accessibility of at least 67 data sets as specified by the UNECE Working Group on Environmental Monitoring and Assessment. This task includes the identification of missing indicators from the UNECE indicator set, the analysis of data sources and available data for the identified indicators, and if necessary, the introduction of additional parameters into statistical observation. The task must be resolved at the national level. The support of international organizations is not required.

Objective 3: Develop an effective system of accounting and reporting on the waste indicators.

Priority: High

Timeframe for fulfilment: 2020–2021

Actions required:

MEGNR should introduce centralized accounting for all types of waste. The task includes studying the international experience in centralized accounting of waste movements, international waste classification systems and applicable definitions; a consideration of detailed forms of waste inventory reporting; the implementation of quarterly reporting on production and consumption waste; and the integration with governmental information systems, including the possibility of using satellite images.

In addition, MEGNR should modify the Unified Information System for Environmental Protection to include:

- A tool for automatic verification of compliance with the values of waste generation and transfer between waste inventory reports and “hazardous waste passports”, and the corresponding comparative register;
- In the “Cartography” section, a map-building tool that uses various indicators;
- Infographics showing the dynamics of the main indicators of the waste inventory in the country as a whole, as well as in regions and enterprises;
- An automatic distribution function for notifications to users about the timely delivery of reports on waste inventories;
- Data on waste processing facilities, indicating the types of waste processed.

These tasks must be resolved at the national level. The support of international organizations is not required.

Objective 4: Introduce modern, internationally accepted methods of analysis, calculations and recommendations in environmental monitoring.

Priority: Medium

Timeframe for fulfilment: 2019–2021 subject to support under the UNDA project

Actions required:

The UNDA project provides the organizational framework for offering trainings to maintain the required level of qualifications in the use of international standards in the implementation of environmental monitoring. This task should include the study of the international experience in monitoring environmental pollution, and should apply analytical methods of Kazhydromet specialists.

Objective 5: Provide interactive development and access to UNECE environmental indicators.

Priority: Medium

Timeframe for fulfilment: 2019–2020

Actions required:

MEGNR should convert all UNECE environmental indicators to an interactive mode and replenish their time series in a timely manner on an ongoing basis. This task entails the formulation of a problem statement for the Committee for Statistics under the Ministry of National Economy to ensure that all UNECE environmental indicators are available in interactive mode, and when funding is available, should include the publication of an interactive state-of-the-environment report. The task must be resolved at the national level. The support of international organizations is not required.

Objective 6: Use the UNECE environmental indicators when developing the national SDG indicators.

Priority: Medium

Timeframe for fulfilment: as appropriate and subject to the study of the international methodology for deferred SDG indicators

Actions required:

The Committee for Statistics under the Ministry of National Economy should use existing UNECE environmental indicators in the development of the not-yet-developed “nationalized” SDG indicators. The task must be resolved at the national level. The support of international organizations is not required.

Objective 7: Expand the development and implementation of green growth indicators.

Priority: Medium

Timeframe for fulfilment: 2019–2021 subject to methodological support under the UNDA project

Actions required:

The UNDA project provides the organizational framework for offering assistance in ensuring closer cooperation with the OECD on adaptation of green growth indicators in the country. This task includes the study of the international methodology for the formation of green growth indicators of the highest priority for Kazakhstan, the consideration of sources of information for use in statistical practice, and the conducting of experimental calculations.