Approved
by order of the Deputy
Chairman of the Board
joint-stock company
National Company
"Kazakhstan Temir Zholy"
from "26" November 2023

SYSTEM MANUAL
ENERGY MANAGEMENT
IN THE JOINT-STOCK COMPANY "NATIONAL COMPANY "KAZAKHSTAN TEMIR ZHOLY"

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1. Introduction

Energy Management System Guide (hereinafter referred to as the Guide) The National Company Kazakhstan Temir Zholy (hereinafter referred to as the Company) describes the system and processes for improving energy efficiency, considering energy efficiency, energy use patterns, and energy consumption. Application of this Guide will reduce energy costs through a systems approach to energy management, as well as greenhouse gas emissions and other environmental impacts.

This guide has been developed in accordance with the requirements of the international standard ISO 50001:2018 "Energy management systems. Requirements with guidance for use" (hereinafter referred to as the Standard).

The guide applies:

for internal use in the Company when making management decisions.

during certification, confirmation of conformity and recertification of the management system.

The manual is developed by the structural unit responsible for the implementation and further improvement of the energy management system.

When distributing electronic copies of the Manual, it is mandatory to use a format protected from changes (*.tif, *.pdf, etc.).

2. Concepts and abbreviations

MT –Ministry of Transport of the Republic of Kazakhstan.

Tstech– Department of Technical Policy of the Company;

BEFORE –subsidiaries of the Company.

GP-Limited Liability Partnership "KTZ - Freight Transportation".

TL- limited liability partnership "KTZ - Passenger Locomotives".

SEnM -energy management system.

Commission -Fuel and Energy Commission of the Company.

Registry -scroll legislative and other requirements in the field of energy management and assessment of their compliance.

Methodology-organizational standard « Methodology of energy analysis. General requirements for the design, consumption, and calculation of energy analysis," approved by Order No. 680-TsZ of September 11, 2024.

TER -fuel and energy resources - the totality of all natural and converted types of fuel and energy used in economic activities.

network level division- a branch of the Company that is directly subordinated to the management of the Company in accordance with the internal document of the Company.

energy management system –a management system used to establish energy policy, objectives, energy targets, and action plans and process(es) for achieving the objectives and solving energy problems.

base value of the energy characteristic- a quantitative reference that serves as a basis for comparing the energy characteristic with it.

energyefficiency-the ratio or other quantitative relationship between the characteristics, volume of the service provided, the output produced, the consumer goods or the energy produced, and the initial energy expended on this.

energy efficiency index –the absolute or specific value of consumption or loss of energy resources for products of any purpose.

Energy characteristics– a measurable result related to energy efficiency, energy use and energy consumption.

Energy policy –act The Company's overall intent, direction and commitment to its energy performance, as formally expressed by senior management.

ehenergy analysis –analysis of energy efficiency, energy use and consumption based on data and other information leading to the identification of areas of significant energy use and opportunities for energy performance improvement.

energy problem –a quantified goal to improve energy performance.

energy audit (energy audit) – collection, processing and analysis of data on the use of energy resources to assess the possibility and potential for energy saving and prepare a conclusion.

discrepancy -failure to comply with the requirements of standards, as well as internal and external regulatory documentation.

corrective action –action taken to eliminate the cause of non-compliance and prevent its recurrence.

Company context- the conditions under which the joint-stock company "National Company "Kazakhstan Temir Zholy" operates.

documented information –information that requires management and maintenance by the Company and the media containing it.

scope of application –a set of activities covered by the EMS and which may have several boundaries.

significant energy use -energy use characterized by significant energy consumption (more than 3% of the total energy consumed in monetary and physical terms) and/or the presence of significant potential for improvement of energy performance.

specific consumption –the specific value of energy resource consumption to produce products for any purpose.

energy resource –an energy carrier that is currently in use or may be used in the future.

State Energy Register –a systematized collection of information about the State Energy Register.

equivalent fuel– a unit adopted in technical and economic calculations, regulated in regulations and standards, used to compare the thermal value of various types of organic fuel.

clean or green energy– is energy obtained from environmentally friendly sources that do not harm the environment, primarily from renewable sources (solar, wind, hydroelectric, geothermal energy, etc.)

3. Company Context

3.1 Understanding the context

The Company's context is the set of internal and external factors that can have both a positive and negative impact on the Company's ability to achieve its planned results.

External factors include (but are not limited to) the following aspects: political, economic, social, technological, legislative, etc.

Internal factors include (but are not limited to) the following: organizational structure, corporate culture, infrastructure and operating environment, corporate knowledge base, personnel, overall performance, etc.

The Company regularly analyzes external and internal factors. One of the Company's key documents, within which the internal and external environment is analyzed, is the Company Development Strategy.

3.2 Understanding stakeholder needs and expectations

The Company depends on understanding and meeting the current and future needs and expectations of its stakeholders. The Company's activities are influenced by a wide range of stakeholders.

In accordance with the Company's Sustainable Development Policy, approved by a separate internal document, a list of potential stakeholders with whom the Company interacts in the course of its activities has been defined.

Based on the specified list, including, but not limited to, potential stakeholders related to the energy performance and the Company's EMS were identified:

No.	Stakeholders	Stakeholder demand	Response of the implemented EMS
1.	Government agencies	Compliance with legislative requirements in the field of energy conservation	Organizing energy audits, developing, approving, and implementing energy conservation measures. Compliance with regulatory requirements.
2.	Shareholder	Energy efficiency improvement program in	Report on the efficiency of energy use in relation to

		the Samruk-Kazyna group of companies	the volume of produced energy resources
3.	Suppliers	Execution legislative requirements in the field of energy conservation	Acceptance of documents for compliance with legal requirements
4.	Investors (creditors)	Fulfilment of obligations (covering investment costs)	Implementation of advanced energy-saving technologies. Control and monitoring of energy use.
5.	media	Information transparency	Communication. Information dissemination within the framework of the Environmental Management System
6.	Management of JSC NC KTZ	Improving competitiveness, achieving strategic goals	Reducing energy costs and increasing energy efficiency. Maintaining the Company's image and reputation.
7.	Workers	Competence	Familiarization with external and internal documentation or requirements within the EMS

In addition, employees responsible for organizing energy management work in network-level units continuously monitor the requirements of newly introduced external documents in the field of energy management. The primary sources of information are: periodicals (magazines, newspapers on energy management), relevant websites, and information systems.

3.3 Scope and boundaries of the EMS

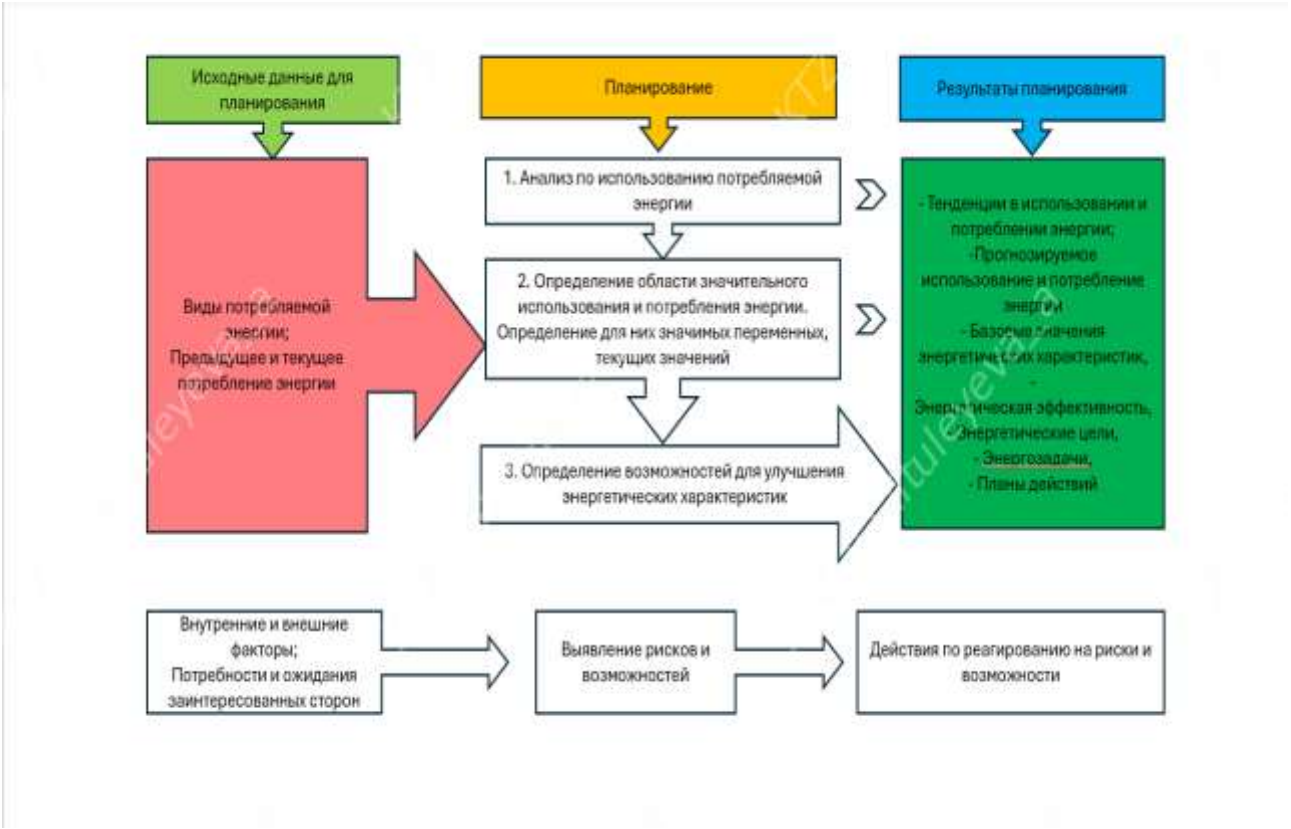
The En MS is part of the Company's integrated management system and is designed to improve the Company's energy efficiency.in the following service delivery management processes:

- main railway network.
- freight transportation.
- passenger transportation.

The scope of application of this Guide covers the structural divisions of the Company and its subsidiaries participating in processes (types of activities).

3.4 Energy Management System

The Company implements, maintains and continually improves an energy management system by systematically managing energy resources according to the conceptual process diagram below.



4. Leadership

4.1 Leadership and Commitment

The person responsible for maintaining the energy management system in the Company in working order and coordinating the activities of all network-level divisions in the field of application of the energy management system is the Center for Technical Support.

Responsible The heads of the relevant departments are responsible for maintaining the energy management system in the structural divisions of the Company's network level.

To monitor and analyze quarterly consumption, established planned energy consumption standards, and the implementation of energy conservation measures, a Commission has been established within the Company under a separate internal document.

The goals, objectives, and functions of the Commission are defined in the Regulations on the Commission, approved by a separate internal document of the Company.

4.2 Energy policy

The general requirements of the Energy Policy are specified in the Company Policy –Corporate ideology and business philosophy, approved in accordance with the established procedure.

The company, being the largest consumer of energy resources in the Republic of Kazakhstan, strives to continuously improve energy efficiency by reducing energy consumption.

Given the important role of energy in the railway industry, the priority areas and objectives of energy policy are:

1) complete and reliable energy supply for the transportation process.

2) reduction of specific consumption of fuel and energy resources in the following areas of activity: train traction, infrastructure.

3) a radical improvement in the management structure of the entire energy complex based on the use of modern information technologies, energy consumption metering and monitoring systems.

4) reduction of the man-made impact of railway energy on the environment.

5) acquisition of energy-efficient traction rolling stock of the new generation based on the latest achievements of scientific and technological progress in this area.

6) application of energy-efficient technologies in satellite navigation systems.

7) active transition to highly economical means of light signaling and lighting, including those based on LED technology.

8) use of clean and green energy (alternative energy sources).

9) maintaining the implemented energy management system in working order in accordance with the requirements of international standard.

10) implementation of developed energy saving measures based on the results of the energy audit and low-carbon development measures.

11) ensuring the availability of information and resources necessary to achieve goals and solve energy problems.

12) providing support for the procurement of efficient products and services that improve energy performance.

Additionally, energy policy requirements are also set out in the Company's Technical Policy Concept, approved by a separate internal document.

4.3 Duties, Responsibilities and Authority

The distribution of duties and areas of authority of the management and heads of the structural divisions of the Company, including by types of activity, are specified in the Procedure for the distribution of duties and areas of authority between the management of the Company, approved by a separate internal document of the Company, in the regulations on structural divisions and other internal documents of the Company.

5. Planning

5.1 Actions to respond to risks and opportunities

When planning the EMS, the Company considers the factors specified in paragraph 3.1 of the Guidelines, and the requirements of stakeholders, in

accordance with paragraph 3.2 of the Guidelines, which may affect energy performance.

RThe Board of Directors approved the Company's Risk Management and Internal Control Policy. The policy defines the fundamental principles and approaches to the corporate risk management system.

In accordance with this policy, the Company, among other things, identifies risks and opportunities to:

1) provide confidence that the EMS can achieve its intended results, including improved energy performance.

2) prevent or reduce unwanted influences.

The Center for Technical Support and the Company's network level units identify possible risks that may affect the achievement of the set goals and objectives in the EMS and send the risk register to the structural unit for risk management and internal control for inclusion in the Company's risk map locatedon the corporate information portalkip.railways.kz.

5.2 Goals, energy objectives and planning for their achievement

Goals, energy objectivesThe companies' EMSs have been developed and approved in accordance with the form established by the Requirements for the form and content of the action plan for energy conservation and energy efficiency improvement, approved by order of the Minister of Investment and Development of the Republic of Kazakhstan dated March 31, 2015, No. 391.

Information on the implementation of energy conservation and energy efficiency measures is provided by network-level units to the Center for Technical Regulation and Metrology on a quarterly basis by the 25th day of the month following the reporting period, using the forms determined by Methodology.

When planning goals and objectives in the fieldSEMNetwork-level units approve schedules for the implementation of energy conservation measures, indicating the deadline and the person responsible for the implementation of the said measures in the forms determined by the Methodology.

5.3 Energy analysis

Network level units quarterlyan energy analysis is carried out by the 25th day of the month following the reporting month.

The procedure for conducting energy analysis is established by Methodology.

Additionally, the Company's network level divisions conduct a monthly analysis of the current fuel and energy consumption using the reporting forms in accordance withAppendices 6, 7to this Manual.

5.4 Measurable energy performance indicators

The primary measurable indicator of energy conservation performance is the specific fuel and energy resource consumption per unit of output (work). For rail transport, the output is the transportation process, i.e., the work performed by the vehicle to deliver freight and passengers.

The specifics of the work and services performed to ensure the transportation process consider different types of fuel and energy consumption, and therefore the assessmentAndThe use of fuel and energy resources is measured in tons of equivalent fuel.

The report on the consumption of fuel and energy resources for operational and production needs in tons of equivalent fuel is compiled in accordance with the Methodology.

The energy efficiency indicator is determined by calculation and is indicated in the report on the consumption of fuel and energy resources for operational and production needs in tons of equivalent fuel.

5.5 Basic values of energy characteristics

When conducting an analysis of fuel and energy consumption at the end of 2015, the Company used the values of 2015 as the base values of energy characteristics (minutes of meeting No. 09-TsUD-TsG/33 dated 17.02.2016).

Energy analysis is conducted quarterly in the Company and is reviewed at a meeting of the Commission, where a decision may be made to change the basic values of energy characteristics.

They can be changed if:

1) the measured energy performance indicators no longer reflect the energy performance of the Company.

2) there have been major changes in statistical factors.

3) grounds for this arose in accordance with the previously established method.

5.6 Planning for operational and production needs

The purpose of planning is to establish the consumption of fuel and energy resources required for the volume of work performed and to determine the production equipment that affects energy characteristics.

The Company's structural divisions calculate and document the planning of fuel and energy resources for operational and production needs.

The Company's structural divisions calculate the fuel and energy costs for the planned year within the timeframe established by the budget formation schedule.

The Company's structural divisions submit the following to the Central Technical Committee for approval:

1) calculations of electricity consumption according to Appendix 1to this Manual.

2)coal, heating oil, natural gas, diesel fuel for boiler houses and buildings with stove heating in accordance withAppendix 2to this Manual.

3)gasoline, diesel fuel andmotor oilonmotor vehicles and special equipment in accordance withAppendix 3to this Manual.

4) plan for the consumption of fuel and energy resources for operational and production needsaccording to Appendix 4to this Manual.

5) Fuel and energy consumption plan broke down by month according toAppendix 5to this Manual.

The calculation is provided on electronic media.

Based on the calculations submitted by the Company's structural divisions, the Center for Technical Analysis approves an annual plan for the consumption of fuel and energy resources for operational and production needs, broken down by month.

5.7 Planning for train training

Standards for the specific consumption of diesel fuel and electricity for train traction for the planning year (Standards) are developed by the State Enterprise and the Transport Liaison Office based on the planned volumes of quantitative and qualitative indicators of locomotive operation.

GPBased on the Budget Formation Schedule annually approved by the Company's Managing Director for Finance, the Company submits the developed standards for approval to the Central Technical Committee.

5.8 Fuel and Energy Consumption Report

For operational and production needs

Fuel and Energy Consumption Reportfor operational and production needsare compiled by the structural divisions of the Company monthly for the reporting month in the form according to Appendix 6 to this Guide and on an accrual basis (Appendix 7 to this Guide) are provided to the Center for Technical Information no later than the 25th day of the month following the reporting month.

For train training

Reports on the consumption of diesel fuel and electricity for train traction are compiled by the State Transport Inspectorate and the Transport Licensing Inspectorate monthly for the reporting month (Appendices 8, 9) to this Manual) and are submitted to the Center for Technical Support no later than the 25th day of the month following the reporting month.

6. Support

6.1 Resources

To keep the EMS in working order and continuously improve energy performance, the Company provides the following resources:

human.

technological.
infrastructure.
financial.

6.2 Competence

The company determines the required competence of personnel in accordance with the list of positions (professions) of railway transport employees and the qualification requirements imposed on them, approved by the authorized body in the field of railway transport.

The Company provides professional training for its employees and monitors their professional development, including energy efficiency, in accordance with a separate internal document regulating the organization of professional development and training for the Company's employees. Personnel competence is maintained through advanced training courses, seminars, workshops, internships, scientific and practical conferences, symposiums, exhibitions, and forums.

6.3 Awareness

On the corporate information portalkip.railways.kzinformation concerning the EMS is posted and any person working under the management of the Company is aware of the content of the energy policy, the energy saving measures planned for implementation, and the results of improving energy performance.

6.4 Communication

The Company's structural divisions and subsidiaries, using communication tools (correspondence, meetings, publication of internal documents, questionnaires, the Internet, telegraph, telephone/fax, corporate information portal), maintain connections both in the internal and external exchange of information.

6.5 Documented information

The documented information of the EMS includes:

Company Policy -Corporate ideology and business philosophy.

this Guide, which includes the requirements of the Standard.

energy saving measures, including goals and main objectives in the field of energy management.

Regulation on the Commission for demonstrating the level of energy efficiency and supporting the functioning of the EMS.

regulatory and technical documentation to ensure effective planning of fuel and energy consumption.

energy analysis, which includes monitoring the consumption of fuel and energy resources and preparing reports based on Methodology.

Registry.

6.6 Creation of documented information and its updating

The methods for creating documentation for the management system are defined in the Documentation Rules at JSC NC KTZ, approved by a separate local act of the Company.

6.7 Control of documented information

Methods of document management, including requirements for record management, are defined by the Document Management Rules of JSC NC KTZ, approved by a separate local act of the Company.

External documentation (legislative and other requirements in the field of energy management) has been identified and their compliance assessment for application within the Company has been determined.

7. Activities

7.1 Planning and management of activities

The Company plans and implements processes related to its significant energy use necessary to meet the requirements and implement the actions defined in paragraph 5.2 of the Guidelines by:

1) conducting an energy analysis established by Methodology.

2) communicate the results obtained to the management representative of the systemenergy management.

3) by systematically ensuring the functioning and maintenance of the system in working orderenergy management (p. 3.4 of the Guide)

A Commission has been established to support the Company's energy management activities. The Commission meets at least quarterly.

In case of outsourcing processes related to energy useCompanies provide for the possibility of controlling and monitoring energy consumption in their purchasing category strategies and contractual terms with suppliers.

7.2 Design

Structural divisions of the Company and its subsidiaries:

1) consider the possibility of improving energy performance through approved plans of energy conservation and energy efficiency measures recommended for implementation based on the results of the energy audit and plans of measures for low carbon development;

2) in the case of reconstruction of buildings and structures, the technical specifications for the reconstruction include a section on energy conservation, where the possibility of using new or existing energy conservation technologies is considered.

7.3 Procurement

When purchasing products and equipment, the Company's network-level divisions and subsidiaries evaluate their energy performance in accordance with the

approved energy conservation and energy efficiency plan and the low-carbon development plan.

To inform suppliers when making purchases of energy-using products, equipment and services, the Company's structural divisions include energy efficiency requirements in the Technical Assignments (specifications), with one of the evaluation criteria being the presence of the required energy characteristics of the purchased equipment and services.

8. Performance evaluation

8.1 Monitoring, measurements, analysis and evaluation of energy performance and EMS

8.1.1 General Provisions

Every month, no later than the 25th day of the day following the reporting day, the Company's network level divisions, in accordance with Appendices 6 and 7 to this Guide, prepare a report on the consumption of fuel and energy resources for operational and production needs.

According to this report, the divisions monitor and analyze the consumption of energy resources for the volume of work performed in comparison with the current year's plan and the actual figures of the previous year, both in terms of consumption in mass terms and specific consumption of fuel and energy resources per unit of production (energy efficiency indicator).

To conduct an analysis of the consumption of fuel and energy resources with different units of measurement and to compare the total consumption of energy resources by facilities with different energy balance structures, the Company's network-level divisions prepared a quarterly report on the consumption of fuel and energy resources for operational and production needs in tons of equivalent fuel.

To monitor the effectiveness of the action plan to achieve the goals, a Report on the implementation of energy conservation measures is prepared in accordance with the Methodologies.

The results of monitoring and measurement are analyzed quarterly in accordance with paragraph 5.3 of the Guidelines.

To obtain reliable measurements of energy resource consumption inIn the Company's network-level divisions, consumed energy resources are subject to mandatory accounting using devices for monitoring the amount of energy resources used.

8.1.2 Assessment of the degree of compliance with legal and other requirements

An assessment of the level of compliance with legislative and other requirements in the field of energy management is carried out annually and posted on the corporate information portal.kip.railways.kzin the Tstech section"Energy

saving" in the form of implementation of energy saving measures approved in accordance with the established procedure.

Assessing the fulfilment of requirements relating to its energy efficiency, energy use, energy consumption and The Environmental Management System is carried out by the Commission in accordance with the approved Regulations on it.

8.2 Internal audit

Conducting internal the audit is regulated by the Rules for planning and conducting internal audit in the JSC NK group of companiesҚTJ".

8.3 Management Review

The analysis carried out by the management is regulated in the Management Guide of the JSC NK group of companiesҚTZh", approved by a separate local act of the Company.

Additionally, the analysis of the efficiency of the energy management system is reviewed quarterly at the meeting of the Committee missions. The analysis results are used to make decisions on improving and maintaining the energy management system.

When conducting the analysis, the results of internal audits (inspections) carried out by the Company's employees, external audits carried out by the body that carries out the audit and certification of the energy management system, and the results of energy audits carried out by organizations accredited in this field in accordance with the Rules for Conducting Energy Audits approved by the regulatory legal act of the Republic of Kazakhstan are necessarily considered.

8.3.1 Input data for analysis

The main details are:

1) the fact of consumption of fuel and energy resources of the past period
2) calculation of fuel and energy consumption for the planning period.
3) variable components affecting consumption.
4) significant energy use.
5) corrective and preventive actions based on audit results.
6) changes in external and internal factors and associated risks and opportunities
7) legislative and other requirements.
8) energy efficiency result.

8.3.2 Analysis output

The main output data are:

1) energy policy.
2) basic values of energy characteristics.
3) energy efficiency indicator.
4) energy goals, energy tasks.

5) energy saving measures.
6) measures to reduce the risk realization
7) increasing the level of competence and awareness.
8) provision of resources.

9. Improvement

9.1 non-conformity and corrective actions

Corrective actions can be taken based on the results of energy analysis, energy usage characteristics, energy consumption, as well as in the event of detection during an internal/external audit, recommendations, or non-compliance with the requirements of the international standard.

The procedure for managing non-conformities, recommendations, and implementing corrections and corrective actions is regulated by a separate local act of the Company.

9.2 Continuous improvement

The company is considering the possibility of improving energy performance through planned energy saving and energy efficiency measures for implementation over a five-year period. and low-carbon development measures. The Company conducts an energy audit every five years, which results in a report recommending energy conservation and efficiency measures for implementation. Thus, the Company considers the possibility of continuous improvement of energy performance.

Demonstration of improvement in energy performance is carried out in accordance with paragraphs 5.3 and 5.4 of the Guide.

Appendix 1
to the Energy Management System Manual
Joint Stock Company "National Company"
"Kazakhstan temir zholy", approved by the order of the Deputy Chairman of the Board of the joint-stock company "National company "Kazakhstan temir zholy"
from _____ 2023, No. _____

Calculation

electricity consumption according to _____ for 20___
(structural division)

Consumer name	Consumer power (kW)	Utilization rate	Quantity (pcs.)	Working hours per day (hours)	Number of days per month	Monthly consumption (kWh)	Annual consumption (thousand kWh)
1	2	3	4	5	6	7	8

Supervisor _____
(signature)

Appendix 2
to the Energy Management System Manual
Joint Stock Company "National Company"
"Kazakhstan temir zholy", approved by the order of the Deputy Chairman of the Board of the joint-stock company "National company "Kazakhstan temir zholy"
from _____ 2023, No. _____

Calculation of consumption of coal, heating oil, natural gas, diesel fuel for boiler houses

_____ for the year 20___
(structural division)

Name of the station, boiler room	Boiler type (efficiency)	Quantity pcs.	Prod. Gcal/h (v) t/h (l)	Fuel type	Volume of buildings (cubic meters)	Heat consumption during the heating period, Gcal					Total Gcal	Consumption rate kg e.t./Gcal	Fuel consumption	
						heating	ventilation	hot water	those. needs	losses in heating networks			conventional fuel (tons of fuel equivalent)	nat.fuel tons
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Coal consumption for buildings with stove heating

_____ for the year 20___
(structural division)

Name	Quantity objects	Volume of buildings, cubic meters	Heat consumption Gcal/year	Consumption rate kg.e.f./Gcal	Fuel consumption	
					tons of fuel equivalent	tons n.t.

1	2	3	4	5	6	7

Appendix 3
to the Energy Management System Manual
Joint Stock Company "National Company"
"Kazakhstan temir zholy", approved by the order of the Deputy Chairman of the Board of the joint-stock company "National company "Kazakhstan temir zholy"
from _____ 2023, No. _____

Calculation of gasoline, diesel fuel and motor oil consumption on**motor vehicles and special equipment**

_____ for the year 20___
(structural division)

Item No.	Name of vehicle (state number)	Classification	Norm (kg/km, kg/hour)		Daily			Monthly			Annual					
			summer	winter	mileage km and m/h	consumption (kg) summer	consumption (kg) winter	mileage (m/hour)	consumption (kg) summer	consumption (kg) winter	Mileage (m/h) fact 20_g.	Mileage (m/h) plan 20_g.	Consumption (kg) summer	Consumption (kg) winter	Consumption total (kg)	Consumption oils (kg)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

Supervisor _____
(signature)

Appendix 4
to the Energy Management System Manual
Joint Stock Company "National Company"
"Kazakhstan temir zholy", approved by the order of the Deputy Chairman of the Board of the joint-stock company "National company "Kazakhstan temir zholy"
from _____ 2023, No. _____

Plan for the consumption of fuel and energy resources for operational and production needs
_____ for the year 20___
(structural division)

Fuel type	Meter	Volumes of measuring instruments			Norm per unit				Consumption			
		Fact 20_g	Fact 20_g	Plan 20_g	Units of measurement	20__g	20__g	20__g	Units of measurement	Fact 20_g	Fact 20_g	Plan 20_g
Electricity												
Coal												
Fuel oil												

Gas												
Petrol												
Diesel fuel												
Dyzmaslo												

_____Signature of the manager

Appendix 5
to the Energy Management System Manual
Joint Stock Company "National Company"
"Kazakhstan temir zholy", approved by the order of the Deputy Chairman of the Board of the joint-stock company "National company "Kazakhstan temir zholy"
from _____ 2023, No. _____

Fuel and energy resource consumption plan
for operational and production needs, broken down by month
according to _____ for the year 20___

Fuel type		Plan 20 __g	Breakdown of TER by month											
			Jan	Feb	March	Apr	May	June	July	Aug	Sept	October	November	Dec
Electricity	**Total consumption**													
	Consumption													
	Meter													
	Specific norm													
Coal	**Total consumption**													
	Consumption													
	Meter													

	Specific norm													
Fuel oil	**Total consumption**													
	Consumption													
	Meter													
	Specific norm													
Gas	**Total consumption**													
	Consumption													
	Meter													
	Specific norm													
Petrol	**Total consumption**													
	Consumption													
	Meter													
	Specific norm													
Diesel fuel	**Total consumption**													
	Consumption													
	Meter													
	Specific norm													

Signature of the manager

Appendix 6
to the Energy Management System Manual
Joint Stock Company "National Company"
"Kazakhstan temir zholy", approved by the order of the Deputy Chairman of the Board of the joint-stock company "National company "Kazakhstan temir zholy"
from _____ 2023, No. _____

Report
on the consumption of fuel and energy resources for operational and production needs
for _____month 20__ to _____
(structural division)

Item No.	Name of the TER and the measuring instruments provided	Units measurements	Reduced meter			Specific rate per unit (kW/h, kg/km, kg/m/m)		Fuel and energy consumption				Percentage to actual 20_g	Percentage of the plan 20_g	Percentage to the right 20_ g
			Fact 20_	Plan 20_g	Fact 20_	Plan 20_g	Fact 20_	Plan 20_g	Law 201_g	Actual consumption				
										20_ g	20_ g			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
For the month of _____201__														
1	Electricity	thousand kW/h												
1.1.														
2.	Coal	tons												
2.1.														
3.	Fuel oil	tons												
3.1.														

4.	Gas	cubic meters												
4.1.														
5.	Petrol	tons												
5.1.														
5.2.														
6.	Diesel fuel	tons												
6.1.														
6.2.														
7.	Dyzmaslo	tons												
7.1.														
7.2														
8.	Thermal energy	Gcal												
8.1.														

_____Signature of the manager

Appendix 7
to the Energy Management System Manual
Joint Stock Company "National Company"
"Kazakhstan temir zholy", approved by the order of the Deputy Chairman of the Board of the joint-stock company "National company "Kazakhstan temir zholy"
from _____ 2023, No. _____

Report
on the consumption of fuel and energy resources for operational and production needs
on an ascending basis for _____months of 20__ by _____
(structural division)

Item No.	Name of the TER, the given measuring instruments	Units measurements	Reduced meter			Specific rate per meter (kW/h, kg/km, kg/m/m)		Fuel and energy consumption				Percentage to actual 20_ g	Percentage of the plan 20_g	Percentage to the right 20_ g
			Fact 20_	Plan 20_g	Fact 20_	Plan 20_g	Fact 20_ g	Plan 20_g	Law 20_	Actual consumption				
										20_ g	20_ g			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
On an accrual basis for _____months of 201__.														
1	Electricity	thousand kW/h												
1.1.														
2.	Coal	tons												
2.1.														

3.	Fuel oil	tons												
3.1.														
4.	Gas	cubic meters												
4.1.														
5.	Petrol	tons												
5.1.														
5.2.														
6.	Diesel fuel	tons												
6.1.														
6.2.														
7.	Dyzmaslo	tons												
7.1.														
7.2.														
8.	Thermal energy	Gcal												
8.1.														

_____Signature of the manager

Appendix 8
to the Energy Management System Manual
Joint Stock Company "National Company"
"Kazakhstan temir zholy", approved by the order of the Deputy Chairman of the Board of the joint-stock company "National company "Kazakhstan temir zholy"
from _____ 2023, No. _____

Report
on diesel fuel consumption for train traction for _____ 20__.

Types of movement	Work in million t/km gross					Mileage in locomotive kilometers					Diesel fuel consumption				
	Fact of the previous period	Reporting period plan	Fact of the reporting period	% to the previous period	% of the plan	Fact of the previous period	Reporting period plan	Fact of the reporting period	% to the previous period	% of the plan	Fact of the reporting period	Fact of the previous period	Right of the previous period	Technical standard for the reporting period	Right of the reporting period
Total															
Control															
Cargo															
Passenger															
Household															
Shunting															

	Specific consumption in kg/10,000 t.km.	The result is absolute	Consumption result by specific kg/measurement

Types of movement	Fact of the reporting period	Fact of the previous period	Technical standard for the reporting period	Reporting period plan	report to the fact of the previous period		to the previous period		to the technical standard of the reporting period		to the right of the reporting period	
					%	tons	%	tons	%	tons	%	tons
Total												
Control												
Cargo												
Passenger												
Household												
Shunting												

Appendix 9
to the Energy Management System Manual
Joint Stock Company "National Company"
"Kazakhstan temir zholy", approved by the order of the Deputy Chairman of the Board of the joint-stock company "National company "Kazakhstan temir zholy"
from _____ 2023, No. _____

Report
according to the consumption of electricity for train traction for _____ 20__.

Types of movement	Work in million t/km gross					Mileage in locomotive kilometers					Losses in the contact network (thousand kW*h)			Electricity consumption (thousand kWh)					
	Fact of the previous period	Reporting period plan	Fact of the reporting period	% of the previous period	% of the plan.	Fact of the previous period	Reporting period plan	Fact of the reporting period	% of the previous period	% of the plan	reporting period		previous period	Fact of the reporting period		Fact of the previous period		Right of the previous period	Right of the reporting period
											Absolute	%	%	ECHE	EPS	ECHE	EPS		
Total																			
Control																			
Cargo																			
Passenger																			
Household																			
Shunting																			

Types of movement	Specific consumption in kW*h/10,000 t.km.					The result is absolute		Consumption result by specific kg/measurement			
	Fact of the reporting period		Fact of the previous period		Reporting period plan	report to the fact of the previous period		to the previous period		to the right of the reporting period	
	ECHE	EPS	ECHE	EPS		%	thousand kWh	%	thousand kWh	%	thousand kWh
Total											
Control											
Cargo											
Passenger											
Household											
Shunting											