



Kept solutions to improve
business energy efficiency

2024

kept

Foreword

Recently, we have seen an increasing number of businesses developing a sustainable energy use culture, and the adoption of legislative measures and initiatives enhances this trend even more.

From the business perspective, energy efficiency solutions are a set of measures to achieve the highest possible indicators of energy efficiency of production, including: energy audit, development and revision of energy-saving programs, sectoral benchmarking, determination of energy efficiency target values and development of strategies to achieve them.

Speaking about energy efficiency, it is important to realize that solutions to increase energy efficiency are useful for the economy in its entirety and at the same time are beneficial for all the parties involved in the process.

In this brochure, you will find information on how Kept will help you increase the energy efficiency of your business.



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Contents

Why Kept

3

Key tasks for energy efficiency improvement

4

Main outputs of an energy efficiency improvement project

4

Methodological approach

5

Energy strategy development stages

6

Selected projects

7



Why Kept



A balanced team of certified specialists with cutting-edge expertise in implementing energy-saving and energy efficiency projects



Cooperation with global sustainability leaders and practical experience in ensuring compliance of production processes with legislative requirements on energy efficiency in Russia and the CIS



A comprehensive approach to project implementation that covers all key elements of the operating model in the area of energy efficiency and includes management, technologies, business processes, personnel competencies, methodological support, organizational structure, etc.



Application of a proven and acknowledged methodology, client employee training and knowledge transfer



Participation in expert analysis of the regulatory framework for energy saving and energy efficiency developed in Russia

Key tasks for energy efficiency improvement

- 01 → Assessment of the actual state of energy consumption at an enterprise, identification of causes of occurrence and determination of the fuel and energy resources' loss and excessive consumption values
- 02 → Analysis of operating conditions of power supply systems and assessment of efficiency of energy resources and secondary energy resources use at an enterprise
- 03 → Preparation of fuel and energy balance sheets for an enterprise and assessment of the rationale for the applicable energy consumption rates
- 04 → Identification and assessment of the fuel- and energy-saving potential
- 05 → Determination of requirements for enhancement of the utility consumption metering system
- 06 → Development of an energy policy/strategy and relevant energy efficiency improvement measures

Main outputs of an energy efficiency improvement project



Methodological approach

We offer our energy strategy development services to your business.

Implementation of the energy strategy developed by Kept specialists will help

1



significantly reduce the end product cost

2



mitigate energy risks

3



strengthen your competitive advantages

Energy strategy development stages

↙ STAGE 1

Diagnostic assessment

1. Documentary due diligence

- Collection of source information
- Development and approval of a comprehensive energy due diligence program
- Analysis of energy stock and energy consumption standards

2. A tool-based analysis and feasibility study of current energy-saving measures

- Collection of source information
- Analysis and assessment of energy-saving programs and current measures
- Development of energy balances
- Assessment of the level of technical equipment with fuel and energy resources consumption control devices
- Assessment of the level of automation of processes for measuring, consumption and use of energy resources
- Review and analysis of the objectivity of reporting information on fuel and energy resources consumption
- Analysis of energy losses and rational use of energy resources

3. Assessment of the tax optimization potential for profit tax (accelerated depreciation) and property tax (benefit for energy-efficient equipment)

4. Preparation of a final report on the comprehensive energy due diligence of an enterprise

STAGE 2 ↘

Development of Energy Efficiency Improvement Plan

- Selection of main areas, development and approval of measures to increase energy efficiency and energy saving
- Compilation of a list of energy-saving measures and performance of necessary calculations for a feasibility study
- Development of requirements and internal procedures to enhance the system of accounting and monitoring of energy costs
- Issuance of recommendations on improving the energy accounting system (which includes equipping with energy metering devices)
- Financial and economic analysis of automation, upgrade/reconstruction of main production facilities
- Preparation of a financial model containing calculations of key investment performance indicators
- Advice on financing options for investment programs (including participation in negotiations with banks, etc.) and preparation of relevant documentation
- Development and approval of Energy Efficiency Improvement Plan

Implementation of Energy Efficiency Improvement Plan

- Development and implementation of an energy management system (ISO 50001)
- Development and implementation of documentation
- Personnel involvement in the energy management system
- Implementation of a reporting system for keeping the stakeholders informed
- Obtaining tax benefits
- Preparation of documents to attract financing

Selected projects

A large operator of main oil pipelines

Audit of a long-term energy efficiency development and benchmarking program



A major gas production, liquefaction and sales project

Assessment of GHG emissions volumes and development of an energy efficiency program



A large mining and metals company

Energy audit, benchmarking of energy efficiency, assessment of the potential, development of an action plan to increase energy efficiency



A mining and metals company in the ferrous metal industry

Energy audit, benchmarking of energy efficiency, assessment of the potential, development of an action plan to increase energy efficiency



A large steel producer

Development of the target energy management model, including the organizational structure, operating model and key processes



A large oil & gas company

Diagnostics of the energy management system and energy efficiency improvement plans, development of recommendations for improvement



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