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ҚАЗАҚСТАННЫҢ
ЭКСПОРТТЫҚ-КРЕДИТТІК АГЕНТТІГІ

RECOMMENDATIONS OF EXPORT-CREDIT AGENCY OF KAZAKHSTAN JSC FOR EXPORTERS ON INCREASING ENERGY EFFICIENCY

PRACTICAL STEPS WITHOUT OBLIGATIONS AND EXCESSIVE COSTS

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Why energy efficiency is needed:

Increasing energy efficiency helps exporters:

- reduce the cost of production by saving electricity and fuel;
- decrease greenhouse gas emissions, which is increasingly taken into account by foreign partners;
- increase competitiveness in foreign markets; simplify interaction with banks, investors, and export-credit agencies;
- be better prepared for ESG and climate indicator inquiries from foreign counterparties.

Many foreign partners already pay attention today to how rationally a company uses energy, even if there are no formal requirements yet..





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Electricity (Scope 2) *Relevant for all sectors*

Quick measures (without significant investments)

- Replacement of incandescent and fluorescent lamps with LED lighting.
- Turning off lighting and equipment during non-working hours.
- Installation of motion sensors and timers in warehouses, corridors, and utility rooms.
- Regular cleaning and technical maintenance of electric motors, ventilation, and compressors.

Medium-term measures

- Replacement of obsolete equipment with energy-efficient equivalents (Class A and above).
- Optimization of equipment operation schedules (reduction of peak loads).
- Installation of electricity metering by workshops/sections, rather than only for the enterprise as a whole.

Examples by sector:

- Manufacturing industry - energy-efficient electric motors and compressors.
- Food industry - optimization of refrigeration equipment.
- Construction materials - monitoring the energy consumption of kilns and drying units.

When planning modernization:

- replace obsolete equipment with energy-efficient ones (Class A and above);
- optimize equipment operation schedules, reducing peak loads;
- install electricity metering by workshops or sections.





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Fuel and Thermal Energy (Scope 1)

Quick and Inexpensive Measures

- Regular technical maintenance of boilers, generators, kilns, and vehicles.
- Monitoring of heat and fuel leaks.
- Optimization of routes for service and freight transport.
- Use of economical operating modes for equipment

More Systemic Measures

- Transition to more efficient boilers, burners, and kilns.
- Improvement of thermal insulation for buildings, pipelines, and production premises.
- Installation of automatic temperature and pressure control systems.

Examples by Sector:

- Metallurgy - reduction of heat loss in furnaces.
- Food industry - optimization of baking, boiling, and pasteurization modes.
- Light industry - energy-efficient steam generators.





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Production Processes

Key saving zone for industry

- Analyze at which stages of production the most energy is consumed.
- When possible, combine energy-intensive operations into a single cycle.
- Use heat recovery (reuse of waste heat).
- Reduce the amount of defective products and repeated operations — this directly reduces energy consumption.





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Transport and Logistics

Particularly important for exporters

- Optimization of delivery and shipping routes.
- Using more fully loaded shipments instead of frequent small deliveries.
- Transitioning to more economical vehicles when updating the vehicle fleet.
- Combining deliveries and return logistics.

Additionally:

- Planning shipments taking into account batch consolidation.
- Working with logistics operators offering more energy-efficient solutions.





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Renewable Energy Sources (where possible)

- Use of solar panels for offices, warehouses, and utility rooms.
- Purchasing electricity from renewable sources (if available from the supplier).
- Use of self-generation to reduce peak loads.
- Even partial use of RES is positively perceived by foreign partners.





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Management and Control of Energy Consumption

Recommended:

- Appoint a person responsible for energy consumption.
- Record monthly consumption of electricity, fuel, and heat.
- Compare indicators by months and years.
- Store bills and documents — they will be useful for cost management and ESG reporting.

Export-Credit Agency of Kazakhstan JSC does not require mandatory implementation of these measures.

All recommendations are voluntary in nature.

Even small steps in energy efficiency are viewed positively in long-term cooperation.

The absence of measures does not affect the terms of support.





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