

The European Union – Uzbekistan Sustainable Energy Days

International Conference

Energy Efficiency in Uzbekistan: prospects and challenges

Radisson Blu Hotel, Tashkent, 27 June 2023

State Energy Register of the Republic of Kazakhstan – the first step towards energy efficiency in industry (experience of Kazakhstan)

Eldos Abakanov, Deputy Chairman of the Management Board, JSC Electric power and energy saving development institute of Kazakhstan

State Energy Register (experience of Kazakhstan)



ENERGY SAVING POLICY





MAINTAINING THE STATE ENERGY REGISTER (SER)

information kept since 2012, as for 2021 more than 20,000 entities were part of SER



ANALYSIS OF ENERGY AUDIT CONCLUSIONS

1 325 conclusions analyzed



EVALUATION AND ANALYSIS OF ACTIVITIES HELD BY SER ENTITIES

850 action plans analyzed



EXPERT OPINION

in the field of energy saving and energy efficiency



CREATING AND MAINTAINING THE ENERGY EFFICIENCY MAP

189 projects being implemented under the Energy Efficiency Map, including 60 projects through the ESCO/PPP mechanism



DEVELOPING INTERNATIONAL COOPERATION

more than 65 memorandums signed



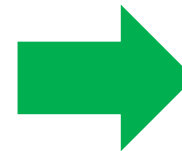
IMPLEMENTING THE PROJECT "INCREASING ENERGY EFFICIENCY IN KAZAKHSTAN"

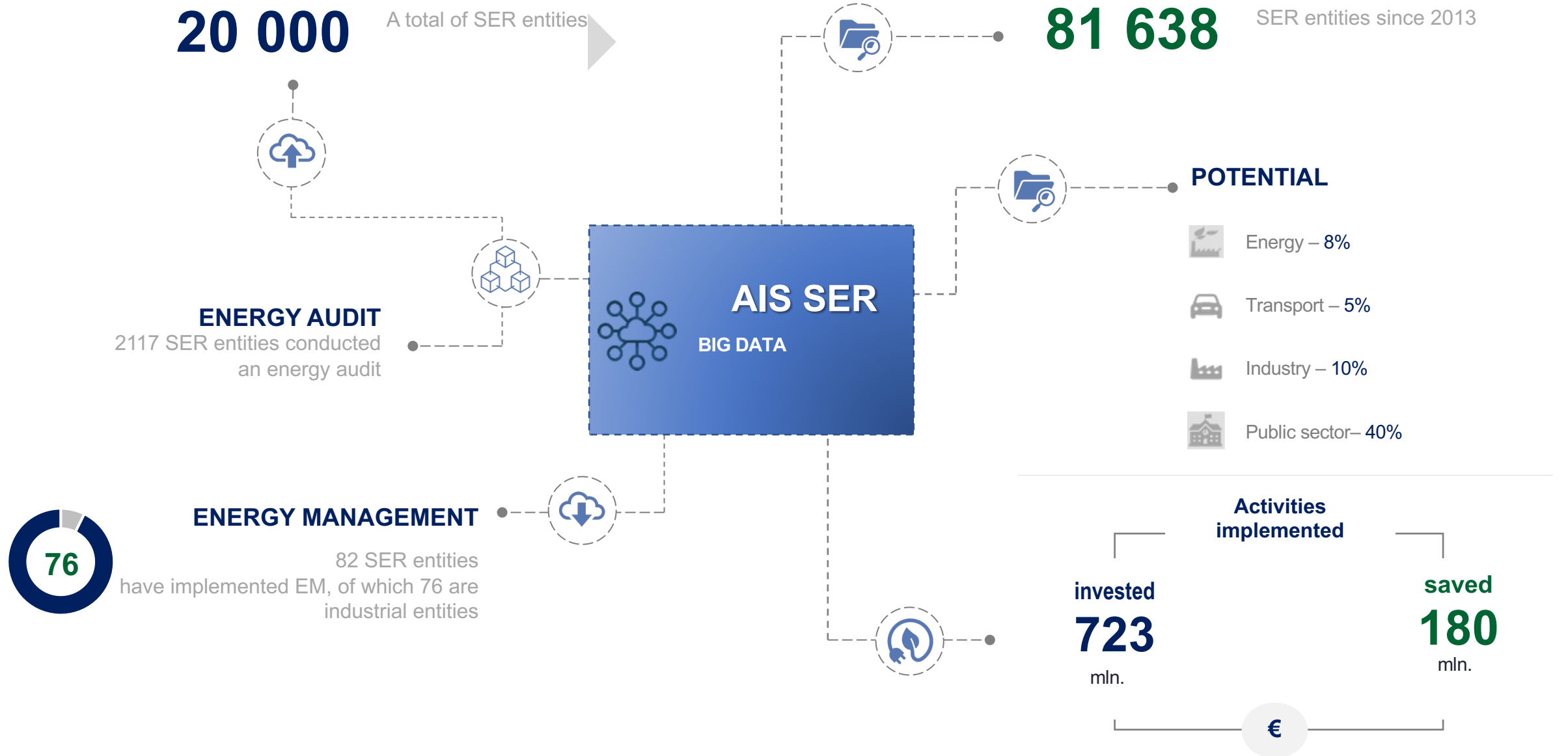
By the order of the Minister for Investments and Development of the Republic of Kazakhstan dated November 30, 2015 No. 1130, **ELECTRIC POWER AND ENERGY SAVING DEVELOPMENT INSTITUTE JSC** was defined as the **NATIONAL INSTITUTE FOR DEVELOPMENT IN THE FIELD OF ENERGY SAVING AND ENERGY EFFICIENCY**



Since 2013:

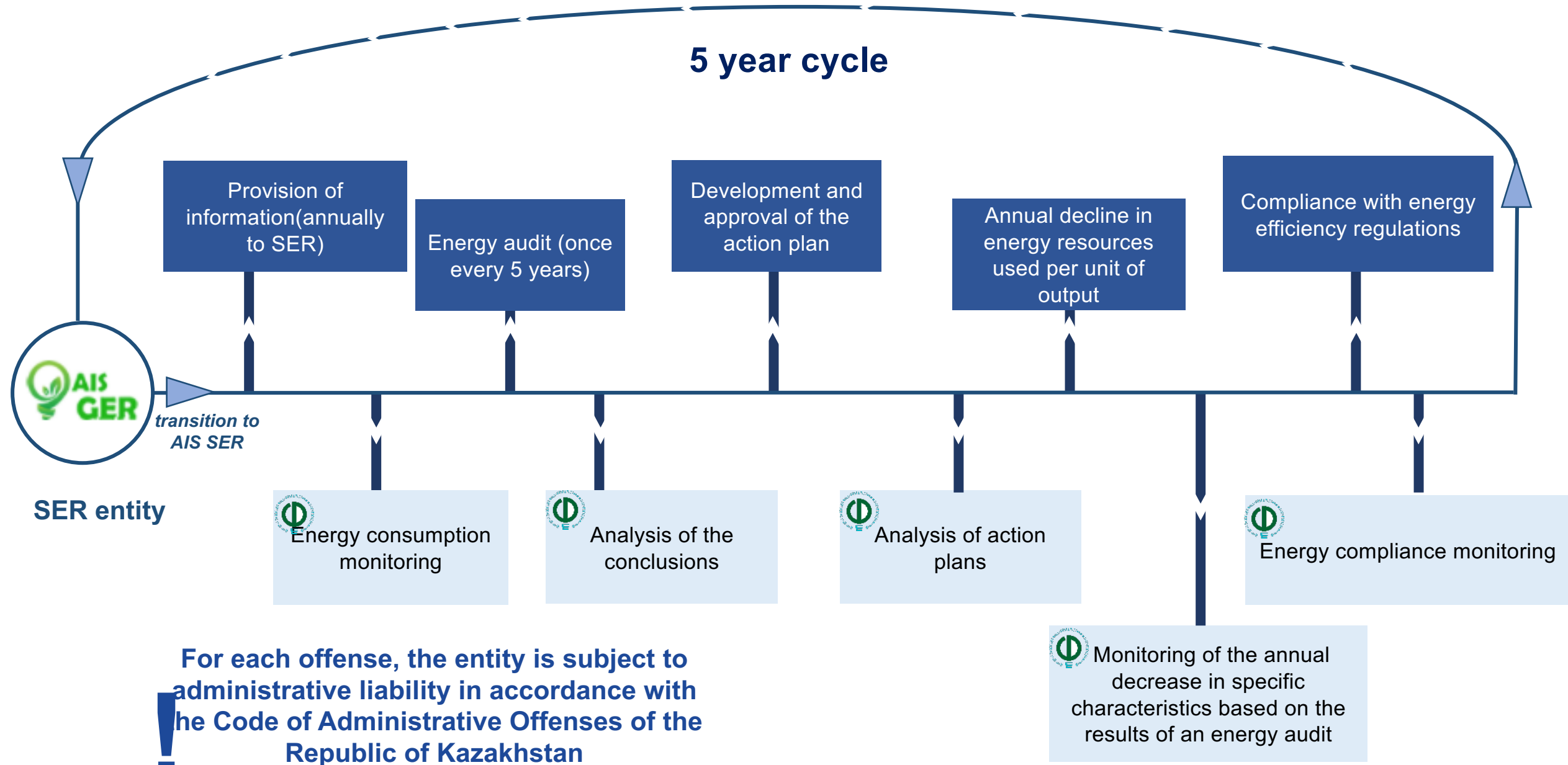
- + monitoring of energy consumption by government agencies
- + monitoring of public procurement in the field of energy efficiency
- + information, analytical consulting services in the field of energy efficiency



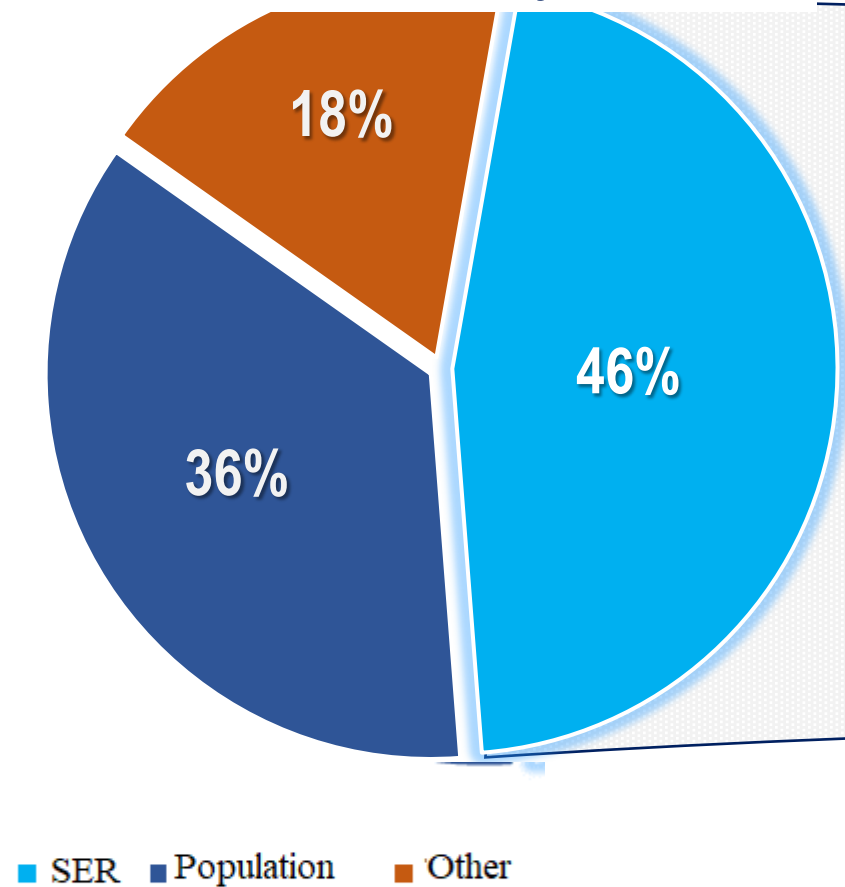


PLAN OF ACTION BY SER ENTITIES

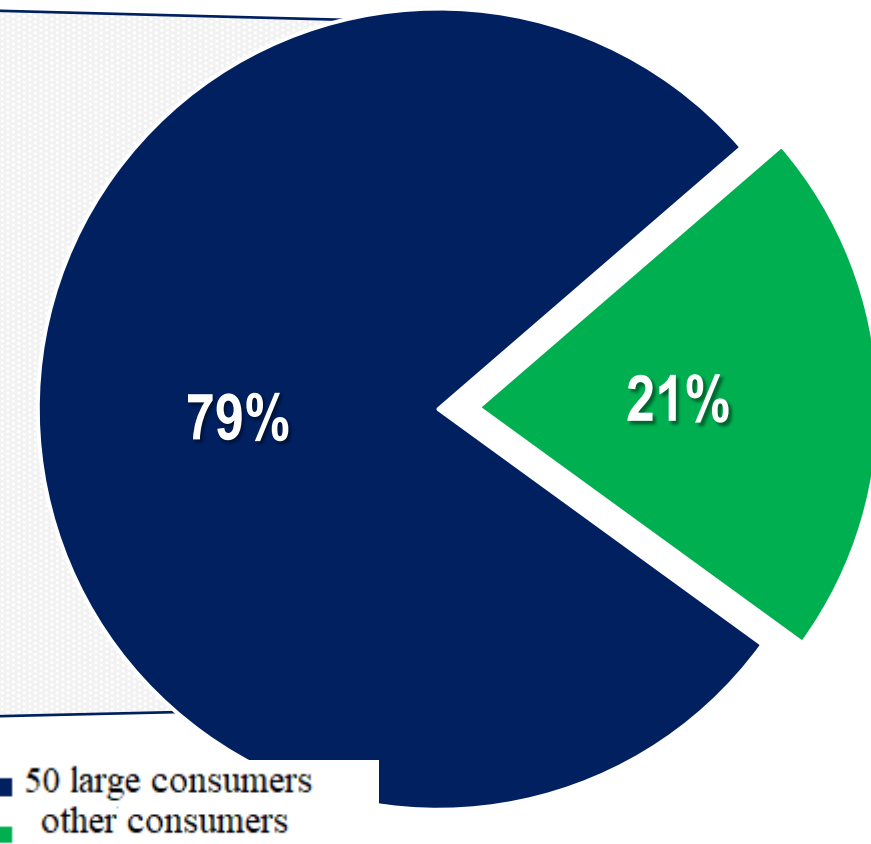
5 year cycle



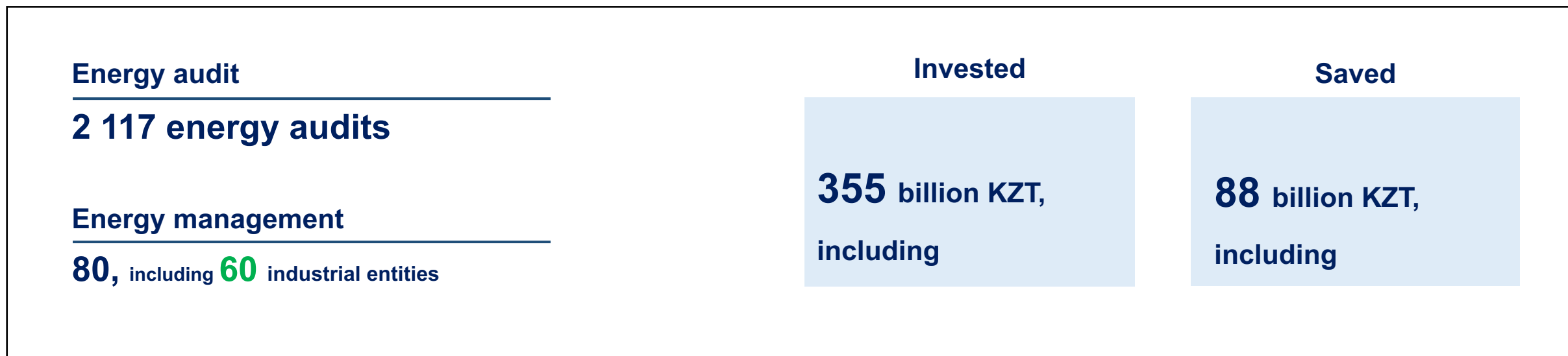
Share of SER entities of total consumption level in the country



Share of 50 large entities of total consumption by SER entities



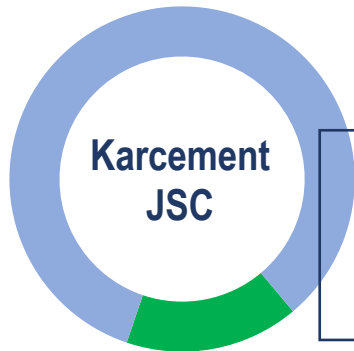
Main indicators



EXAMPLES OF IMPLEMENTED PROJECTS IN INDUSTRY

15% reduction in specific energy consumption for the production of a ton of cement (kW*h/t)

225
mln.KZT
annual savings



- installation of additional smoke exhausters in the raw mill section
- modification of the furnace ignition system

13% reduction in the specific consumption of electricity for the production of a ton of refined lead (kW*h/t).

436
mln,KZT
annual savings



- introduction of soft starter and controller
- smoke exhauster synchronization

LAW "On the introduction of amendments and additions to some legislative acts of the Republic of Kazakhstan on ... energy saving and energy efficiency ... "

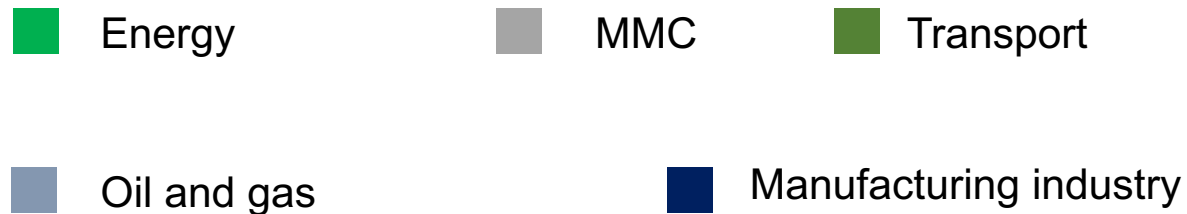
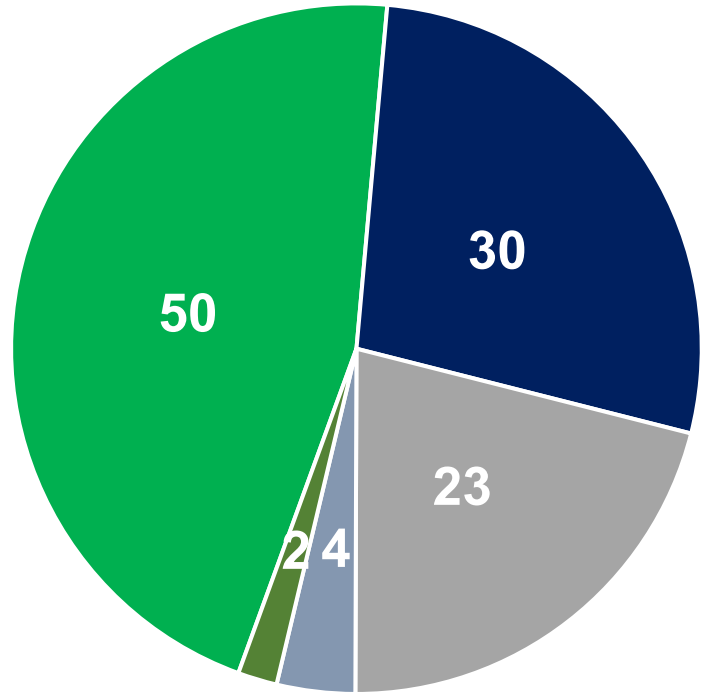
BASED ON	Address of the Head of State to the people of Kazakhstan dated January 10, 2018 "New development opportunities in the context of the fourth industrial revolution"
STATUS	adopted June 30, 2022

DRAFT LAW INCLUDES

- improvement of energy auditing activities
- appointment of energy managers at large industrial entities under SER
- exemption from mandatory energy audit of some entities under SER
- setting target indicators for energy efficiency
- public procurement monitoring
- setting energy consumption standards for public facilities and monitoring
- strengthening regional policy
- implementation of preventive control without a site visit



TOP - 109



Status



Target indicators for TOP-109 developed



Share of consumption by TOP-109 > 50% of the total consumption level in the country and 87% of that by SER.

Effect

5,3%

reducing the energy intensity of industry

Thank you for your attention!