



UNITED FOR EFFICIENCY IN KAZAKHSTAN

PROJECT AT-A-GLANCE

Energy Efficient Standards, Certification, and Labelling for Appliances and Equipment in Kazakhstan



GEOGRAPHICAL SCOPE

National project

Kazakhstan



For more information, please visit:
www.united4efficiency.org

TARGETED PRODUCTS



Appliances
GEF project
ID 5703

STATUS **ACTIVE**

STARTING DATE **MAY 2017** CLOSING DATE **APRIL 2022**

TOTAL PROJECT COST



\$ 15.7
million



TEAM LEADERS

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DONOR

Global Environmental Facility

IMPLEMENTING PARTNER

United Nations Development Programme

PARTNER

Ministry of industry and infrastructure development of the Republic of Kazakhstan

KEY ACHIEVEMENTS TO DATE



Proposals and recommendations on national MEPS for the draft Law of the Republic of Kazakhstan.



Establishing MEPS for electric motors with a transition from IE1 to IE2;



Manual for "Conducting Express Energy Audits of Electric Motors and Transformers" **developed.**



Online calculators developed to assess the energy efficiency classes of refrigerators, transformers and electric motors, to be further used on the web portals of producers and retailers.



Discount program implemented for the promotion of spent appliances safe disposal and giving discounts to buy energy efficient refrigerators in two major cities of Kazakhstan. The 2000 purchased refrigerators saved about 185 kWh per year each.



4,3 megatonnes of CO2 emissions reduction per year by 2030 (equivalent to more than 722,000 cars).



THE CHALLENGE

In Kazakhstan electricity consumption has been steadily rising since the late 1990s. The country predominantly relies on coal-based energy generation which directly leads to high emissions of CO2. In 2014 the annual total of CO2 emissions nearly approached 70 million tones. A significant technical potential to reduce emissions lies in increasing the efficiency of common electricity-intensive appliances and equipment – most notably, refrigerators, distribution transformers, and motors – but to date, this challenge has gone unaddressed because of the absence of relevant regulations and the weakness of market signals about energy-related performance and value.

In Kazakhstan, the enabling conditions are in place to address the barriers to energy efficiency in the appliance and equipment sector, take full advantage of the technical guidance offered by U4E, and achieve real market transformation and global environmental benefits.

WHAT WE DO

United for Efficiency Center of Excellence team of experts, following the U4E Integrated Policy Approach, provide technical guidance to Kazakhstan in order to achieve the promotion, demonstration, deployment, and transfer of innovative energy efficient technologies, particularly energy efficiency in appliances and equipment.

The project addresses the development challenge through integrated activities directed at the existing barriers. The core focus is the implementation of Minimum Energy Performance Standards (MEPS), which have a growing track record of achieving large-scale savings throughout the world. The project also supports the introduction of voluntary High-Efficiency Performance Standards (HEPS) in conjunction with product labelling and government procurement rules. Enforcement of both MEPS and HEPS is carried out by accredited certification laboratories, which the project supports with methodological guidance and needed equipment. The project also conducts supporting market research, informational outreach and technical support to residential and industrial consumers.

Via integrated activities the project seeks to achieve the following objectives:

- Transformation of the market for appliances and equipment in Kazakhstan, via creation and implementation of standards, labeling, regulations, and associated capacity building.
- A new, effectively operating regime of testing, certification, and information disclosure in support of implementation of energy efficiency standards and labelling, carried out by properly equipped, trained, and certified laboratories.
- Enhanced capacity among citizens and industry in Kazakhstan to understand, afford, and procure Energy Efficient appliances and equipment.
- Creation of new capacity among manufacturers and other supply-chain participants for appliances and equipment for compliance with new standards and labelling of energy efficiency.

UN ENVIRONMENT'S ROLE



United for Efficiency provides developing and emerging economies through their in-house experts and specialized partners with tailored technical support to transform their markets by accelerating the adoption of energy-efficient lighting, appliances, and equipment. Currently it is present in more than 30 countries worldwide. Based on each country's circumstances, United for Efficiency works with any of the following products: lighting, refrigerators, room air conditioners, motors and transformers - 5 products that together consume over half of the world's electricity.

By following United for Efficiency's Integrated Policy Approach and covering crucial elements from the transformational pathway, such as Standards and Regulations; Labelling and Communication strategies; Financial Mechanisms; Monitoring, Verification and Enforcement; and Environmental Sound Management, countries achieve a lasting market transformation, allowing monetary savings on their utility bills, helping businesses thrive through greater productivity, enabling utilities to meet growing demand for electricity, and assist governments in reaching their economic and environmental ambitions. Such support is available at three levels: Global, Regional and National providing several tools and resources to support committed countries in their efforts, such as Policy Guides, multiple assessments (country level, street lighting, etc), regional policy roadmaps and harmonization process recommendations, development of training for policymakers and practitioners and National Action Plan implementation support.



ЕСКІНІ ӨТКІЗІП - ЖАҢАСЫН АЛ

СІЗДЕ ТОЗҒАН НЕМЕСЕ ІСТЕН ШЫҚҚАН ТОҢАЗЫТҚЫШ, ЭЛЕКТР ПЛИТА, МҮЗДАТҚЫШ, ҮЙДІС ЖУАТЫН МАШИНА БАР МА?

ТҮРМЫСТЫҚ ТЕХНИКАЛАРДЫ АЛЫП КЕТЕТІН ҚЫЗМЕТКЕ ХАБАР ЛАСЫҢЫЗ ТАПСЫРЫС БЕРУ ТЕЛЕФОНДАРЫ:

АСТАНА 8-7172-64-25-33 АЛМАТЫ 8-7273-11-54-52

СІЗДІҢ ЕСКІ ТЕХНИКАҢЫЗДЫ ТЕГІН АЛЫП КЕТЕДІ!

ЖАҢА ТОҢАЗЫТҚЫШ САТЫП АЛУҒА АРНАЛҒАН 16 500 ТЕҢГЕНІҢ ЖЕҢІЛДІК СЕРТИФИКАТЫ ТАБЫСТАЛАДЫ

СЕРТИФИКАТТЫ ҚАБЫЛДАЙТЫН ДҮКЕНДЕР ЖЕЛІСІ: TECHNODOM МЕТТА

1 ҚАЗАННАН БАСТАП АСТАНА МЕН АЛМАТЫДА