

Virtual Regional Technical Expert Meetings on
Mitigation 2020
CLIMATE SMART COOLING SOLUTIONS FOR
SUSTAINABLE BUILDINGS IN EASTERN EUROPE AND
WEST ASIA

27 August 2020 | 10:00 – 11:30 CEST | Virtual event

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Founder and CEO of UNISON Group, KYRGYZSTAN**

BRIEF ABOUT UNISON GROUP



- UNISON is the professional consultancy and Think Tank organization from Kyrgyzstan, working on Renewable Energy, Energy Efficiency and Climate Changes issues;
- It has 18 years of the professional development history and track record of successful project implementation in all Central Asian countries working with EBRD, EU, World Bank, USAID, etc.

BRIEF ABOUT KYRSEFF



What is KyrSEFF::

Kyrgyz Sustainable Energy Financing Facility joint product of EBRD and European Commission(EU)

- Credit line of **55 million** US dollars:
 - KyrSEFF: 2013-2016 - 20 million USD with EU/IFCA grant of \$8.4m
 - KyrSEFF+: 2016-2020 - 35 million USD with EU/IFCA grant of \$10.0m

KyrSEFF supports:

- Thermo modernization of the residential buildings
- Energy modernization of business
- Water saving and Renewable Energy applications

KYRSEFF OUTLOOK



KyrSEFF outlook:

- Increase number of economically viable and sound (bankable) projects in residential and business sectors.
- Increase private and public sector interest on development of similar products

• Why?

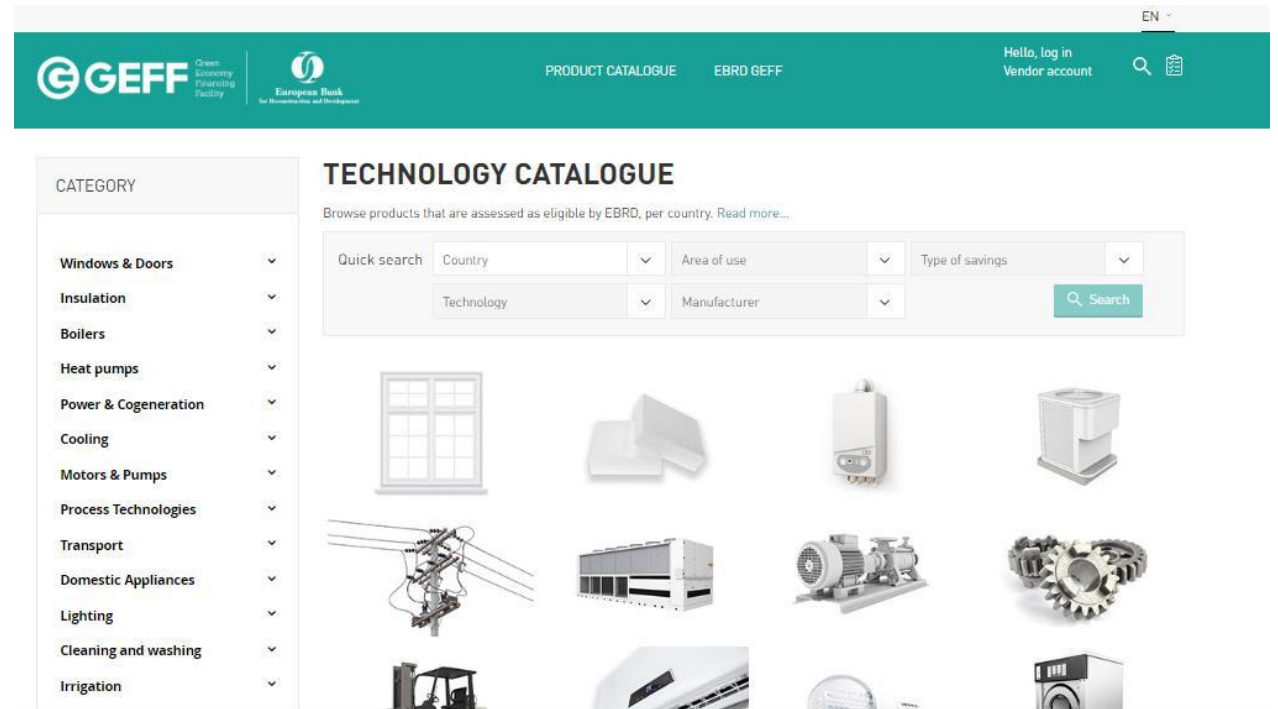
- 1) High potential of energy saving in average to 50%,
- 2) Environmental benefit of water saving and CO2 reduction
- 3) Increasing efficiency and competence of SME
- 4) Live improvement - increasing comfort, cutting costs

<https://techselector.com/ts-en/>

Green Technology Selector

KYRGYZSTAN

- 15 categories
- 40 sub categories
- 340 technologies



The screenshot shows the website's interface for Kyrgyzstan. At the top, there is a navigation bar with the GGEFF logo, the European Bank for Reconstruction and Development logo, and links for 'PRODUCT CATALOGUE' and 'EBRD GEFF'. On the right side of the navigation bar, there is a user greeting 'Hello, log in Vendor account' and search and account icons. Below the navigation bar, there is a 'CATEGORY' sidebar on the left with a list of categories: Windows & Doors, Insulation, Boilers, Heat pumps, Power & Cogeneration, Cooling, Motors & Pumps, Process Technologies, Transport, Domestic Appliances, Lighting, Cleaning and washing, and Irrigation. The main content area is titled 'TECHNOLOGY CATALOGUE' and includes a search filter section with dropdown menus for 'Country', 'Area of use', 'Type of savings', 'Technology', and 'Manufacturer', along with a 'Search' button. Below the search filters, there is a grid of technology icons representing various green technologies such as windows, insulation, boilers, heat pumps, cogeneration plants, cooling systems, motors, transport equipment, domestic appliances, lighting, cleaning equipment, and irrigation systems.

COOLING IN GREEN TECHNOLOGY SELECTOR



6 Cooling subcategories:

- Water-cooled chillers
- Air-cooled chillers
- Absorption chillers
- Air handling units
- Chilling cabinets
- Chilling counters

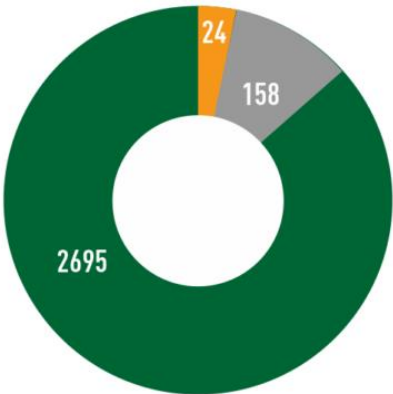
SUSTAINABLE BUILDINGS



- Passive and bioclimatic design considerations, thermal storage
- Thermal insulation of buildings – walls, roofs, selective glazing, shading elements (blinds, shutters, horizontal and vertical shading)
- High efficiency mechanical air-conditioning and cooling

KYRSEFF STATISTIC

KyrSEFF Clients



Individual apartments & houses

Multi-apartment buildings

Business sector

Project Implementation KyrSEFF - Energy and Resource Saving



Energy saving
174 032 MWh/year

which is 8 times higher than the annual electricity generation of the Alamedin GES-5 *



CO2 reduction
59 549 tonnes/year

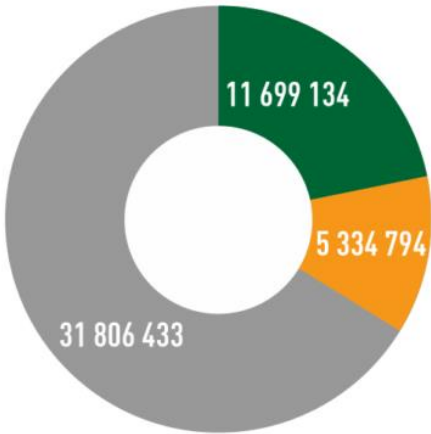
238 196 passenger cars or 18,3% of the vehicles in the KR emit this amount of CO2 per 1,000 km



Water saving
105 299 m³/year

132 hectares of wheat can be watered with this amount of water

Investment volume



Individual apartments & houses

Multi-apartment buildings

Business sector

Thank you for attention!

Nurzat Abdyrasulova

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