

CLIMATE SMART URBAN DEVELOPMENT CHALLENGE (CSUD)

PROFILE

Donors: Global Environment Facility (GEF), UNDP;
Co-financing: Government of Serbia's Ministry of Environmental Protection

Funding: \$1.95mil. (GEF), \$100.000 (UNDP), \$5mil. (Government of Serbia)

Main Partner: Ministry of Environmental Protection

Duration: 2017-2021

GOAL

To enable implementation of innovative ideas that bring new practice to Serbia, helping local communities reduce the greenhouse gases (GHG) emissions and adapt to the changing climate conditions by collaborating with local partners: individuals, civil society, scientific community and business sector to develop, finance and implement these ideas.

CONTEXT

Serbia has committed to reduce the greenhouse gases (GHG) emissions and adapt to the changing climate conditions, in line with the United Nations Framework Convention on Climate Change, Paris Agreement for Climate Change, and within the EU accession process. The efficiency of majority of public services in the country is still low, the systems are poorly maintained and outdated, which often results in significant energy losses. Many public service-related areas involving the use of a large number of vehicles and machinery have untapped potential for reducing GHG emissions, and at the same time improving the daily life of citizens. Also, good quality data on current greenhouse gas emissions from different sectors, particularly at the local level are currently unavailable or lacking.

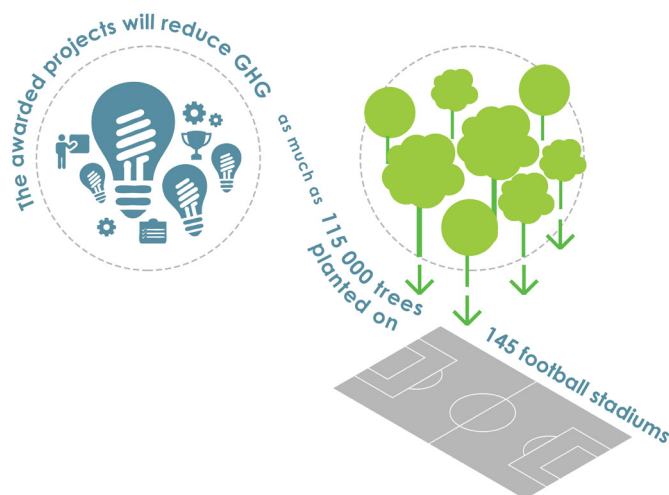
FOCUS

Innovation Challenge

- Identifying innovative and cost-effective ideas for reduction of GHG emission created by public services and facilities, that provide social, economic and environmental benefits for the community and its citizens;
- Providing expert guidance for implementation of selected ideas and concepts in practice, including co-funding for further project development;
- Supporting the establishment of network of climate resilient development-focused partnerships;

Open Data Challenge

- Identifying innovative and cost-effective ideas and solutions for simple and user-friendly public access to local climate change related data, and for improving the management of this data;
- Supporting the development and establishment of comprehensive local, climate change related information management systems and data collection procedures in sectors such as energy, transport, construction, urban planning, water and waste management;
- Support development of evidence-based climate change mitigation strategies and policies as well as local planning approach for a low carbon future in a changing climate.



FIVE MOST MATURE INOVATTIVE PROJECTS



"Les garbage, more happiness and wellbeing for all" by Eso Tron Ltd. introduces an innovative business model to improve the existing practice of organic and inorganic waste management separation. The approach includes new methods of organic waste treatment, which create different by-products such as biogas and base for biodiesel.



"Innovative approach to the production of biomass pellets from medicinal herbs" by Sanicula Ltd. introduces the circular economy into the process of production of essential oils. After distillation, partially dried raw material is further processed to produce pellets. Therefore, waste will be eliminated in the production process and pellets will be used in the distillation process instead of the existing fuels. The rest of the pellets will be offered on the free market.



"End of waste for polyurethane foam" by Jugo-Impex E.E.R. delivers a solution for materials that, after recycling refrigerators, have no usable value on the market. Polyurethane foam, left after the Freon is separated, is converted into a new product, an absorbent that collects oily liquids such as gasoline and petrol, in case of their uncontrolled leaking into the environment.



„Establishing the SCADA system for oversight and management of heat distribution substations at the district heating system of the City of Sabac" by PUC for the Production and Distribution of Thermal Energy. Sabac proposed increasing the energy efficiency of district heating systems by using data for timely response to non-standard behaviour of the system, while making heat consumption data available to all district heating users. Based on the data, users will be able to plan energy savings and heating costs. The expected reduction in heat consumption is at least 10 per cent.



"New approach in the production of heat and electricity from wood biomass" by Green Energy Point Ltd. introduces a new approach in the production of combined heat and power by combustion of wood biomass. The project also introduces a new business model of cooperation with partners, associations, suppliers of raw materials, local agricultural holdings and local self-government. A part of the wood biomass will be obtained by extracting waste wood that endangers the operation of Hydro Power Plant "Djerdap".

RESULTS TO DATE:



111 applications received under the Innovation Challenge Public Call, proposing sustainable solutions for climate-smart communities.



25 teams with the most innovative ideas and solutions awarded with up to \$10,000 as "Climate Smart Innovation Pioneers".



25 awarded teams and additional 9 teams received the "Climate Incubator" expert guidance support in business planning, after which 5 companies won \$470,000 of co-financing grants for implementation of their solutions. The expected reduction of the GHG over the life span of the awarded projects is 500,000t CO₂ equivalent, as much as 115,000 trees planted (the size of 145 football stadiums).



Under the Public Call for the Open Data Challenge, 15 local self-governments submitted their innovative ideas for improved management and opening up of data relevant for climate change mitigation.



8 local self-governments awarded up to \$10,000 as "Open Data Innovation Pioneers". Teams are receiving technical assistance within the "Climate Incubator" to further develop their ideas as well as local GHG inventory.

Contributing to Sustainable Development Goal:



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Contact:

ana.seke@undp.org
Bulevar Zorana Djindjica 64, 11000 Belgrade
Phone: +381 (0)11 4155 300