



Empowered lives.
Resilient nations.



Project «Supporting Green Urban Development in Small and Medium-Sized Cities in Belarus» / GREEN CITIES



Development and adoption of green urban development plans



- An integrated approach to urban planning: energy efficiency, mobility, built environment and public realm, waste management, water consumption, renewable energy, smart technologies, biological diversity, adaptation to climate change, etc. - everything is combined in synergetic way with participation of locals and all stakeholders in planning and decision making
- Sustainable development of regions, including development of tourism and ecotourism
- Improving the quality of life and modern architectural image of cities
- Low carbon technology
- New economic and social prospects for citizens, cultural and civic initiatives, for small businesses and startups
- Introduction of "green" mechanisms ("green" procurement and investment)
- Tools for monitoring the effectiveness of urban development

- Common sustainable urban mobility plan optimizes the movement of people and goods in urban space
- Sustainable public transport is competitive with private cars: speed, comfort, affordability and convenience
- Reduction of harmful emissions positively affects the environment and human health
- Public transport services are available to all citizens, including the disabled and the elderly
- Sustainable transport drives tourism sector development
- Changing conditions of mobility of cities increases their attractiveness for new enterprises (businesses)
- Bicycle in a green city means mobility, safety, a healthy lifestyle and friendly environment
- Pedestrian areas are full of activity and life and provide a comfortable environment

Development of pilots on sustainable urban transport in Polatsk and Navapolatsk



Development of pilots on energy efficiency in Navahrudak

- The use of energy-saving technologies is cost-effective
- Installation of LED "smart" street lighting leads to lower costs and greenhouse gas emissions
- Improved lighting reduces injuries
- Improved lighting enhances overall safety

- Expert support in the development of the Sustainable Energy and Climate Action Plans (SECAP): Baranavičy, Pružany, Liozna, Mscislaŭ, Slaŭharad
- Expert support for the development of Green Urban Development (GUD) Plans Haradok, Zelva, Karma, Kryčaŭ
- Support in the development of the "SymbioCity-Brest-2050" concept
- Green Urban Development Web Portal

Replication mechanisms for green urban development in Belarus



Project goal:

Promotion of green urban development plans and pilot green urban development initiatives related to energy efficiency and sustainable transport in small and medium cities in Belarus

National executing entity:
Ministry of Natural Resources
and Environmental Protection
of the Republic of Belarus

Donor:
GEF

Implementing agency:
UNDP

Budget:
\$3 091 000

Duration:
2016-2021



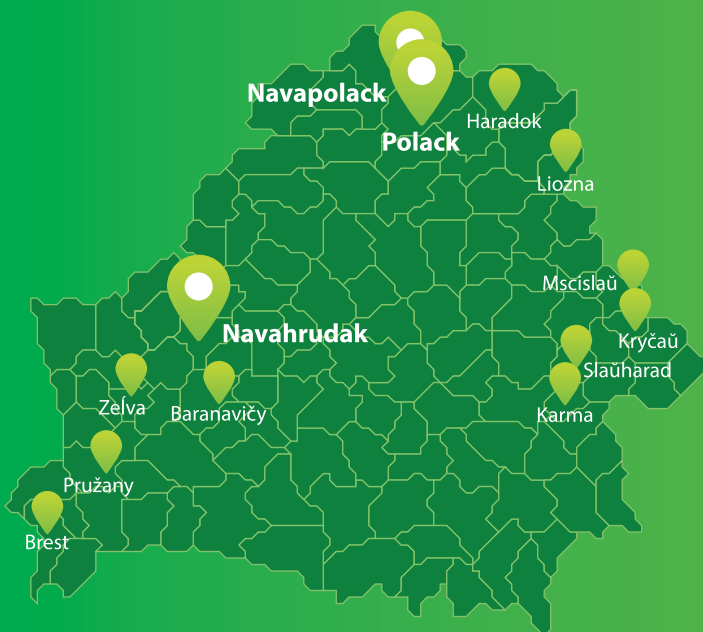
Project territory:

- Polack,

- Navapolack,

- Navahrudak,

Brest, Baranavičy, Pružany, Liozna, Mscislaŭ, Slaŭharad, Haradok, Zeŭa, Karma, Kryčaŭ



PROJECT OUTCOMES

IMPLEMENTATION OF A SMART STREET LED LIGHTING SYSTEM IN NAVAHRUDAK

400 LED lights
and **25** control panels installed

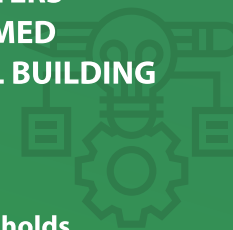
Possible energy savings of **30-40%**

Expected economic effect —
146 thousand kWh per year



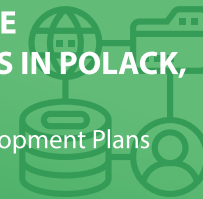
INSTALLATION OF SMART-METERS FOR ACCOUNTING OF CONSUMED RESOURCES IN A RESIDENTIAL BUILDING IN NAVAHRUDAK

Smart meters save up to **5-10%**
of resource consumption for households



EXPERIMENTAL MODELS FOR THE TRANSFORMATION OF DISTRICTS IN POLACK, NAVAPOLACK, NAVAHRUDAK

in accordance with the Green Urban Development Plans objectives



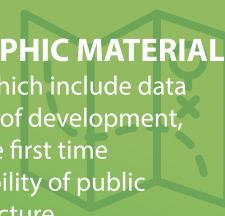
DEVELOPMENT OF PILOTS ON SUSTAINABLE URBAN TRANSPORT IN POLATSK AND NAVAPOLATSK

- Expansion of the bicycle network and bicycle infrastructure
- Allocation of lanes for public transport
- Installation of modern public transport stops and information boards
- Optimization of traffic, introduction of the "green" wave, automated coordination of traffic lights
- Measures to limit the movement of cars and control traffic



CREATION OF OPEN CARTOGRAPHIC MATERIALS

(20 electronic maps for each pilot city), which include data on the state of the housing stock, quality of development, distribution of population density (for the first time for cities of Belarus), green areas, accessibility of public transport stops and other urban infrastructure



91.1 thousand tons of CO₂ —
the total direct reduction in CO₂ emissions resulting from the implementation of pilot initiatives and the replication of experience gained



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