



KHARKIV



CITY PROJECTS CATALOG

DEVELOPMENT & INVESTMENT





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Kharkiv is the second largest city in Ukraine and over the past years the most dynamically developing one. That is possible thanks to the city's policy of attracting international partners to implementation of numerous socially important and significant infrastructure projects.

The city is a strong leader among the national exporters of high value-added goods. It is known as a center of industry, science and education, combination of which contributes to its further economic development.

Over the past few years, Kharkiv has embarked on the trajectory of continuous modernization. Roads, buildings, engineering and transport infrastructure are being modernized and refurbished. Targeted investments from the city and state budgets, as well as financial support from international partners enable extensive implementation of public-private partnership principles and growth of the volumes and scope of the projects implemented year after year.

Kharkiv's international credit rankings repeatedly confirmed by such reputable rating agencies as *Moody's*, *Fitch* and *IBI-Rating* National Agency with a *Stable* forecast are at the highest possible level considering that they cannot exceed the sovereign rating of Ukraine. High and good rankings reflect the city's good economic and financial performance indicators.

Kharkiv has three times topped the *European Cities and Regions of the Future* ranking of *fDi Magazine* (a special division of the *Financial Times*) in the category "Large European Cities of the future – Cost Effectiveness". In 2020, Kharkiv was listed among the *TOP 10 Large European Cities of the Future – FDI Strategy*.

Kharkiv is recognized as the *Most Comfortable City for Life in Ukraine* by *Kyiv Smart City Forum 2019* (*Kyiv Smart City Forum* is one of the most important events in Eastern Europe for promotion of smart city technologies and implementation of innovative solutions in cities).

This catalog offers partners to get acquainted with important projects that have been implemented and that are ongoing and open for new investments for the city development.

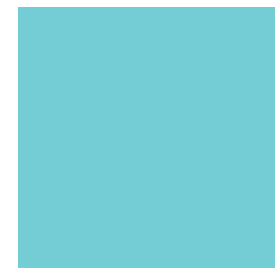


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KHARKIV

**CITY OF MODERN
INFRASTRUCTURE**



1

Kharkiv Metro Line Extension and Rolling Stock Renewal



Description:

The project consists of:

- construction of two new stations (Derzhavinska and Odeska) on metro line III extended from Metrobudivnykiv station (3.47 km in length);
- construction of Oleksiievske electric depot with the capacity of 100 carriages;
- purchase of 85 carriages of the rolling stock;
- improvement of the technical equipment of Kharkiv Metro.

Current Status:

- ♦ all the necessary agreements and contracts signed with Banks and line ministries;
- ♦ the Law of Ukraine on Ratification of Agreement with EIB adopted;
- ♦ the tender procedure completed in accordance with the Banks' requirements for FIDIC engineer consulting services to support Project implementation; contract concluded with the winner: "EGIS International" Company (France);
- ♦ tender procedures underway in accordance with Banks' requirements for main contractor for line and depot construction;
- ♦ Resettlement Action Plan implemented (98% of objects purchased from owners).

Expected Results:

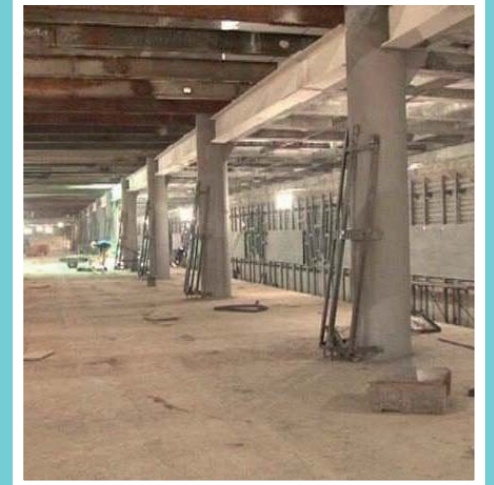
- relieving the burden on the overland transport;
- providing high quality transport services ensured by:
 - access to metro for the population living in a major district of the city;
 - increasing the number of the rolling stock on the lines;
 - reducing intervals between trains;
 - reducing the travel time for passengers travelling from the central part of the city to uptowns;
 - ensuring safety and comfort of passenger transportation;
 - improving the Metro's cost-effectiveness;
 - improving the environmental situation in the city.

Promoter:

Kharkiv City Council,
Municipal Enterprise "Kharkiv Metropoliten".

Funding Model:

Co-financed by:
EBRD, EIB, city budget.



Increasing Energy Efficiency of Centralized Heating Supply System



Description:

The project provides for:

- implementation of new generating capacities;
- reduced pollutant emissions into the air;
- reduced heat losses;
- improved quality of heat supply services;
- optimized enterprise structure;
- better environmental condition of the city;
- higher energy efficiency and reliability of the (de)centralized heat supply system through reconstruction of production capacities.

Prospective projects:

- liquidation of 17 boiler houses aimed to cut down consumption of energy resources and natural gas and to reduce emissions of greenhouse gases (CO_2 , NO_x), which will contribute to real improvement of the environmental situation and to conservation of natural resources;
- reconstruction of the high-pressure steam boiler at TPP-3 aimed to reduce emissions of pollutants into the atmosphere (CO_2 , NO_x) during generation of heat and electric energy.

Funding Model:

Co-financed by the World Bank and Clean Technology Fund.

Promoter:

Kharkiv City Council,
Municipal Enterprise
“Kharkivski Teplovi Merezhi”.

Expected Results:

- construction of 2 cogeneration stations with total electrical capacity of 5 MW;
- reconstruction of 10 boiler houses with total thermal capacity of 160.4 MW;
- installation of 250 individual heating supply units;
- modernization of 4 pumping and 4 boiler houses;
- commissioning of a 20 MW turbogenerator;
- commissioning of boiler houses, installation of heating units and reconstruction of heating networks;
- installation of 1,000 heat meters with weather control systems;
- implementation of an automated system of electricity consumption accounting;
- technical reequipment of 25 thermal chambers with replacement of fittings and ancillary equipment;
- technical reequipment of the dispatch center;
- supply of insulated steel and plastic pipes with reinforcing rods, compensators and fittings, etc.;
- supply of block-modular boilers.

Current Status:

Procurement was carried out according to IBRD procedures, on the basis of which contracts were concluded with the winners.

70.5 km of pipelines for reconstruction of main and distributive heating networks and 18.9 km for reconstruction of hot water networks purchased in 2018-2021.

The implementation of a dispatching system for central heat supply station and other objects is currently underway.



Improvement of Sewage Treatment Plants



Expected Results:

- higher reliability of sewage treatment plants operation;
- financial viability and profitability from the technology of sewage sludge treatment and disposal;
- improved environmental situation of the Siverskyi Donets river basin (the source of water supply to Kharkiv, Donetsk and Luhansk regions);
- saved energy resources.

Promoter:

Kharkiv City Council,
Municipal Enterprise “Kharkivvodokanal”.

Funding Model:

Financed by the World Bank.

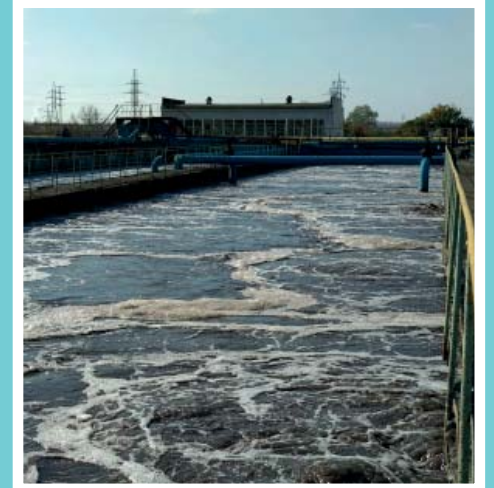
Current Status:

- ♦ Contractors determined under international tenders and contracts signed with: Safege SAS Company (Project Consultant), Consortium TAHAL – KHILARI (Israel – India) (Design, Supply and Installation);
- ♦ Expert Report approved.
- ♦ Equipment delivery and execution of all works under the contract to be completed in 2022-2023.

Description:

Reconstruction of sewage treatment plants of the city (No.1 and No.2) will cover:

- mechanical treatment buildings:
 - reconstruction of screening chambers with replacement of garbage catching screens;
 - construction of new grit catchers;
 - reconstruction of primary radial-flow settlement tanks;
- biological treatment buildings:
 - reconstruction of aerotanks using nitri-denitrification technology;
 - reconstruction of air-blower stations;
 - reconstruction of secondary settlement tanks;
- sewage sludge treatment buildings:
 - reconstruction of the mechanical sludge dewatering facility with installation of new dewatering equipment;
 - construction of methane tanks for biogas generation with subsequent thermal and electric energy generation for own needs;
 - reconstruction of sludge beds on an artificial basis;
 - construction of pumping sludge consolidation tanks;
 - construction of two sludge lines (L = 9 km) from City Sewage Treatment Plant No.1 to City Sewage Treatment Plant No.2;
- complete replacement of the existing pumping equipment with the new, energy-efficient and failure-proof.



Water-Pumping Stations Modernization



Description:

Water treatment complexes “Dnipro” and “Donets” and 21 municipal water-pumping stations are to be modernized.

Modernization provides for:

- reconstruction and replacement of the main technological and electrical equipment;
- installation of water disinfection equipment;
- replacement of the pumping equipment, cable lines, switchgears;
- transfer from chlorine use to sodium hypochlorite use;
- installation of converters of rotation speed in electric motors.

Promoter:

Kharkiv City Council,
Municipal Enterprise
“Kharkivvodokanal”.

Funding Model:

Various co-financing models available.

Open for strategic partnerships for the project implementation.

Expected Results:

- annual electricity saving of up to 74.2 mln kW, which will influence the prime cost of production and reduce the overall operating expenses;
- enhanced safety at water disinfection;
- better reliability, reduced emergency repair expenses.



Current Status:

Ongoing partner search.

Negotiations are underway with IFIs as to support of this project.



Solid Waste Treatment Complex



Description:

The project provides for:

- construction of a modern solid waste landfill;
- installation of a system for collection, landfill gas utilization and electricity generation in compliance with the Ukrainian and European environmental legislation;
- installation of a landfill gas collection system;
- installation of a landfill gas utilization system for electricity and heat production.

Promoter:

Kharkiv City Council,
Municipal Enterprise
“Municipal Waste Management
Company”.

Funding Model:

Co-financed by World Bank,
city budget.

Expected Results:

- annual electricity generation from 13.5 mln kWh (year 1 of operation) to 42.0 mln kWh (year 10 of operation) ensured by use of renewable sources;
- separate solid waste collection;
- at least 40,000 tons of secondary raw materials per year;
- reduced use of natural materials ensured by recycling of secondary raw materials;
- reduction in greenhouse gas emissions from 51,000 tons of CO₂e per year (year 1 of operation) to 157,000 tons of CO₂e per year (year 10 of operation);
- extended operation of the solid waste landfill ensured by reduction in waste landfilling volumes;
- cultivation of environmental culture of the population, conscientious attitude to resource saving and separate waste collection.

Current Status:

All the necessary tender procedures completed under IBRD rules.
Construction of the first launching complex completed.
Works on complex facilities construction and relevant equipment delivery underway.
The planned date of commissioning of the construction facility is 2021.



City Road Infrastructure Reconstruction



Description:

Reconstruction of road and transport infrastructure objects includes:

- reconstruction of utility networks, tramway and road surface;
- removal of the worn-out utility networks (water supply, sewage, power supply and communication networks);
- (re)construction of the storm water drainage network;
- expansion of the roadway;
- provision of new asphalt surface for the roadway and pavements;
- installation of lowered border stones at pedestrian crossings;
- new road surface markings.

Promoter:

Kharkiv City Council.

Funding Model:

Various co-financing models available.

Open for strategic partnerships for implementation of road and transport infrastructure projects.

Expected Results:

- improvement of the road surface condition;
- enhanced traffic capacity of streets;
- safe flow of traffic and pedestrians.



Current Status:

Drafts are prepared for reconstruction of different road and transport infrastructure objects in the city.



Construction of a road with a two-level transport interchange



Description:

The project provides for:

- construction of a road connecting the largest and most heavy-traffic main roads of the city (Yuvileinyi Avenue and Akademika Pavlova Street) with the central part of the city via Shevchenka Street, Matiushenka Street and Moiseivska Street;
- construction of a two-level transport interchange near *Kyivska* Metro Station;
- extension Vesnina Street and Zhuravlivskiy Slope, as well as adjoining streets.

Promoter:

Kharkiv City Council.

Модель фінансування:

Various co-financing models available.

Open for strategic partnerships for implementation of road and transport infrastructure projects.

Expected Results:

- tackling the issue of traffic jams one of the most heavy-traffic area of the city;
- redistribution of traffic flows thanks to the possibility to use a new road;
- traffic deconfliction and cutdown in travel time for drivers and passengers;
- modernization and improvement of the adjoining streets;
- creation of a new transport interchange in the city that will connect a densely populated district with the central part of the city;
- traffic safety improvement due to implementation of modern technological solutions.



Current Status:

Design works are underway.

Construction is expected to begin in 2021.



Traction Substations Modernization

Description:

The project aims to reconstruct the existing traction substations serving the city's electric transport network.

The reconstruction provides for:

- a feasibility study of all the existing traction substations;
- modernization of the outdated equipment.

Promoter:

Kharkiv City Council,
Municipal Enterprise
“Miskelektrotransservis”.

Funding Model:

Various co-financing models available.

Open for strategic partnerships for the project implementation.

Expected Results:

- reduced inefficient expenditures from the city budget;
- increased energy efficiency of the trolleybus and trams systems;
- improved economic and operational expenses;
- reduced adverse environmental impact.



Current Status:

Memorandum of Understanding and Financial Agreement with KfW Development Bank signed for allocation of grant funds for International Consultant for audit of all 59 substations and feasibility study preparation.



Modernization of Elevators

Description:

The project provides for replacement of 1,596 elevators with expired service life in 871 buildings in nine districts of Kharkiv.

The economic effect will be achieved by reduction of operation and maintenance costs for the replaced elevators.

Promoter:

Kharkiv City Council,
Municipal Enterprise
“Kharkivmisklift”.

Funding Model:

Various co-financing models available.

Open for strategic partnerships for the project implementation.

Expected Results:

- adequate technical operation and safe use of elevators;
- economic effectiveness of elevators operation;
- significantly decreased energy consumption and expenses on maintenance;
- new wireless dispatching systems covering all elevators in the city;
- quality of services provided to citizens at the level of European standards;
- new working places.



Current Status:

Project under evaluation.

Project documentation under preparation.

Ongoing partner search.



Energy Modernization of Public Buildings



Description:

Energy modernization is required for public buildings in one administrative district:

- 31 kindergartens;
- 23 schools;
- 6 hospitals.

It includes:

- thermal insulation of exterior walls;
- installation of energy-efficient windows (insulated glazing units) and external doors;
- installation of local recuperative heat exchangers and automated individual heat supply units;
- modernization of the heating distribution system;
- replacement of electric lamps with their LED counterparts;
- implementation of an energy management system.

Promoter:

Kharkiv City Council.

Funding Model:

Various co-financing models available.

Open for strategic partnerships for the project implementation.

Expected Results:

- annual energy consumption reduction by 44.5 GWh/year, with annual savings of about 1.5 mln euros;
- halved heat consumption for the buildings heating;
- power consumption reduction by 1.3 for interior lighting of the buildings;
- environmental condition improvement through reduced greenhouse gas emissions from the heat and power generation sources;
- reduction in CO₂ emissions by 63% per year.

Current Status:

A demonstration project (secondary school No.153) was completed with the financial support of the *Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH* by September 2017. The project included replacement of all the windows, insulation of the building elevation, partial repair and insulation of the roof, insulation of the basement, repair of the entrance spaces.

A feasibility study has been carried out for the abovementioned 60 public buildings in one district within the *USAID*-funded “Municipal Energy Reform in Ukraine”.

Negotiations are ongoing with IFIs as to their support of the project.

Kharkiv is interested in development of similar energy modernization projects in different public sectors of other districts involving modernization of educational, cultural and social public buildings.



Energy Modernization of Kindergarten No.6



Results:

- annual savings on the swimming pool heating and hot water preparation;
- savings on air heating – up to 75%.

Funding Model:

The pilot project (kindergarten No.6) was completed with the financial support of the *Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH*.

Promoter:

Kharkiv City Council.

Description:

The modernization consisted of:

- implementation of energy-efficient technologies:
 - solar collector system installation (BUDERUS equipment):
 - 1) accumulated energy from 2 m³ buffer is used for preparation of sanitary hot water and heating of the swimming pool;
 - 2) three-zone ventilation system modernization (installed ventilation systems and an air recovery and dehumidification unit);
 - water treatment system installed for the swimming pool with various sources of water heating (solar collector, heat networks, electric heater);
 - heating system upgrade (replacement of all radiators and pipelines, underfloor heating system installed);
- water supply and discharge (full replacement of all pipelines and plumbing fixtures, use of BOSCH accumulative water heaters);
- replacement of windows and entrance spaces;
- repair of the swimming pool, shower rooms, changing rooms;
- insulation of the building elevation.





KHARKIV

SAFE CITY



City Office of Emergency Management Creation



The Office of Emergency Management will include:

- an operator’s control hall for information transfer to response services, crises and communication halls;
- specially equipped offices for representatives of the Commission for technogenic, environmental safety and emergency situations, the State Emergency Service, the National Police, the Ambulance Service, etc.;
- city services: municipal, state and private services ensuring the city life sustenance, the Service for traffic and management of the city's transport infrastructure;
- halls for conducting staff trainings and education of the representatives from city emergency services on prevention and elimination of all kinds of emergency situations that will arise in the city.

Promoter:

Kharkiv City Council.

Funding Model:

Co-financeing: city budget, IFIs.
Open for strategic partnerships for the project implementation.
Various co-financing models available.

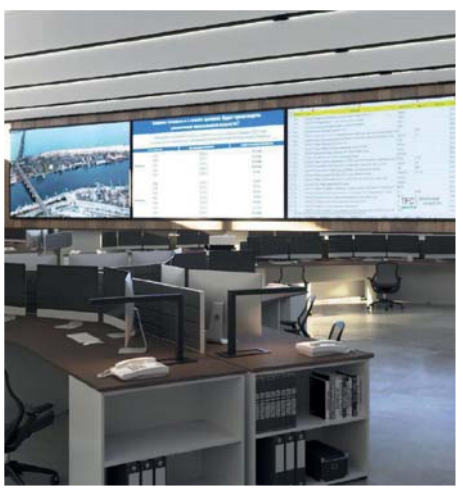
Expected Results:

The Office of Emergency Management will perform the following functions and tasks:

- call distribution and information transfer to response services;
- monitoring, analytics and forecasting of situations in the city, modeling of management decisions;
- management of automated systems;
- management in crisis situations;
- planning, coordination and control of the adopted decisions implementation, evaluation of the results thereof;
- development and implementation of situational and behavioral action plans for all emergency response services;
- centralized resolution of control and management tasks, both in ordinary and in crisis situations, timely determination of emergencies, actions control on their elimination and adoption of operational decisions;
- centralized notification of population via a single urban automated system, systematic trainings for the population on the rules of fire and technogenic safety, actions in case of various accidents, events and emergencies.

Current Status:

- A detailed concept of the City Office of Emergency is developed.
- In cooperation with foreign consultants, a land plot for the Office has been selected and allocated for construction.
- Preliminary design and estimate documentation has been developed, the final Construction Project is being prepared for examination submission.
- Partner is being selected for development of the Office's IT infrastructure.



Road Safety

Description:

The project aims to reconstruct road and transport infrastructure objects and to create an automated road traffic management system to ensure instant response to traffic rules violations.

Project constituents:

- infrastructure to support public transportation;
- measures to be taken in places of road accidents concentration;
- modernization of crossroads;
- streets repairs;
- bicycle routes on the existing roads and bicycle paths;
- zones with speed limits;
- action plans by route;
- smart road traffic management systems, infrared cameras, speed cameras.

Promoter:

Kharkiv City Council,
Municipal Enterprise
“Miskelektrotransservis”.

Funding Model:

Co-financing by
European Investment Bank,
city budget.

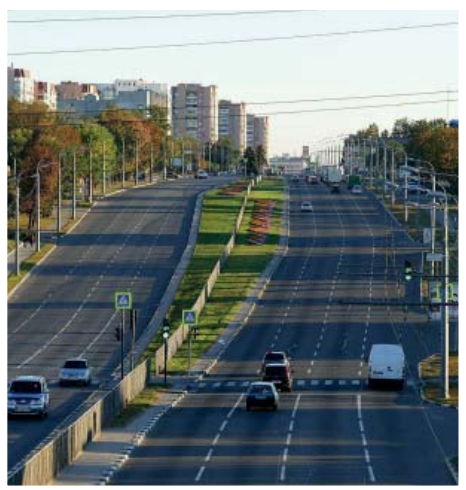
Expected Results:

- reduced accident rate on city streets;
- decrease in the numbers of road accidents with victims and in the severity of their consequences (fatalities and injuries);
- creation of a city transport infrastructure accessible by people with disabilities;
- elimination of traffic congestions with a coordinated online traffic management system.



Current Status:

Feasibility study underway.
EIB has expressed interest in supporting the project.



Public Lightning System Modernization



Description:

Public lightning modernization on the main street (Sumska Street) includes:

- replacement of lamps on the lampposts on the central and adjacent streets;
- installation of start-control devices, suspended lamps, a public lighting control cabinets with the brightness adjustment function, lamp-carrying cables, main leads on self-supporting insulated wiring;
- ensuring of safety at pedestrian crossings by providing additional lighting.

Promoter:

Kharkiv City Council,
Municipal Enterprise “Misksvitlo”.

Funding Model:

Various co-financing models available.
Open for strategic partnerships for the project implementation.

Expected Results:

- reduction in electricity consumption by 19.2%;
- reduction in CO₂ emissions by 20,100 tons/year;
- reduced operating costs for lighting system maintenance and improvement of its technical condition;
- ensuring of citizens’ safety at nighttime: prevention of crimes and reduction in the number of road traffic accidents;
- raising of public awareness about the use of energy efficient technologies.



Current Status:

Project draft prepared.
Energy and technical audits conducted.



Smart Air Quality Measurement System



Description:

The project aims to:

- create an information analysis system of data on air quality;
- provide information on a timely bases to the public;
- determine air pollution indicators that, when exceeded, require measures to be taken to improve air quality or reduce the harmful environmental impact on public health.

Promoter:

Kharkiv City Council,
Municipal Enterprise
“City Information Center”.

Funding Model:

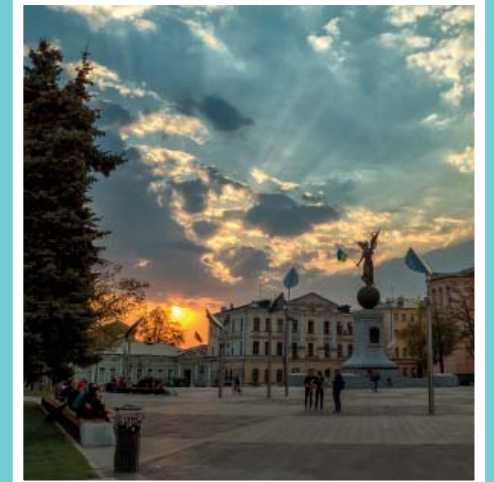
Various co-financing models available.

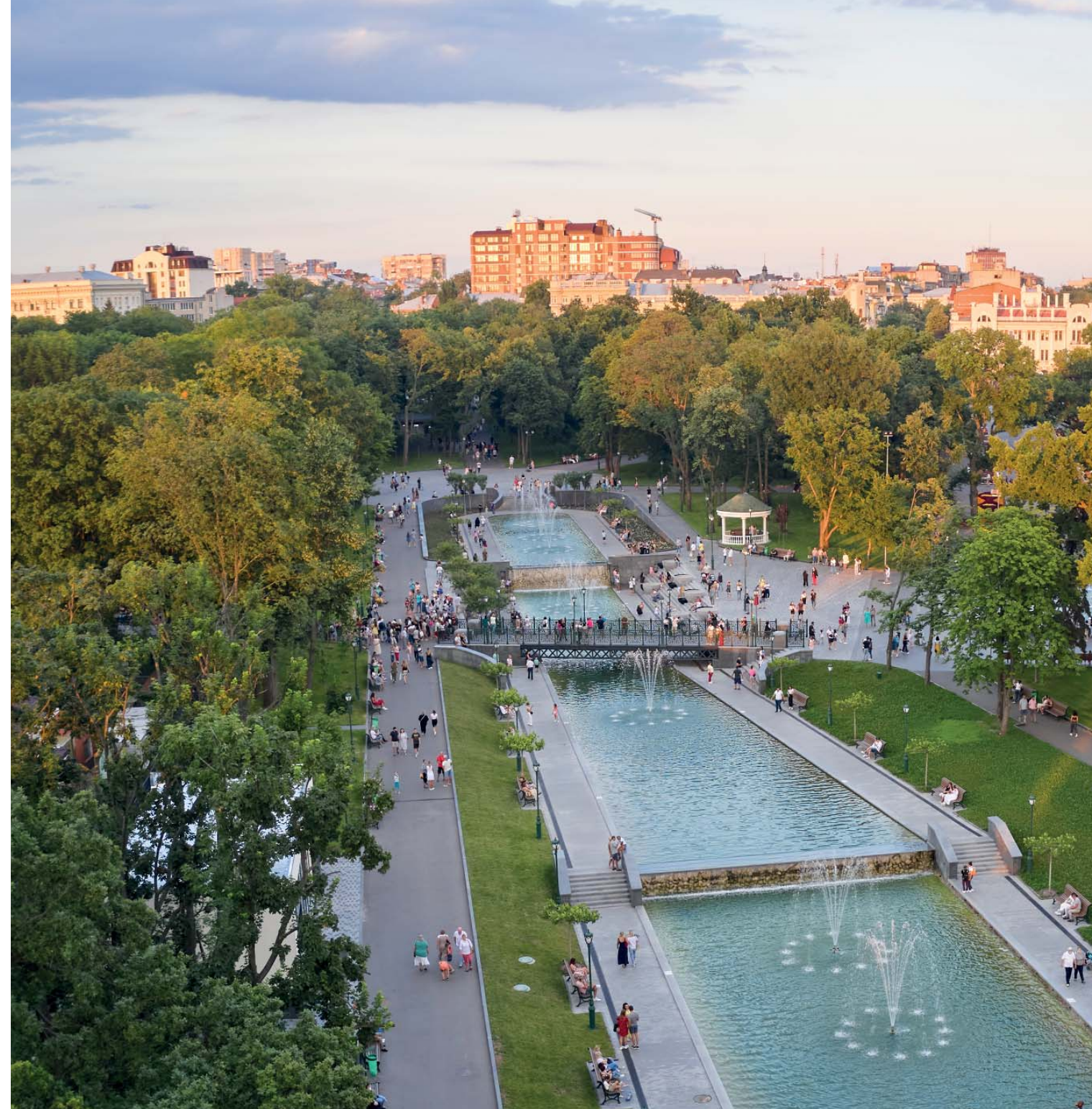
Expected Results:

- convenient provision of information on air quality to the public;
- notification of people with respiratory tract diseases of dangerous factors;
- prevention and reduction of morbidity from irritants in the air;
- identification of previously unknown sources of harmful emissions;
- ensuring of timely response to air pollution;
- encouragement of enterprises to reorganize technologies of harmful production;
- improvement of the overall environmental status of Kharkiv;
- analysis of data from multiple sources and generation of reliable reports for different periods;
- prediction of air quality depending on meteorological conditions.

Current Status:

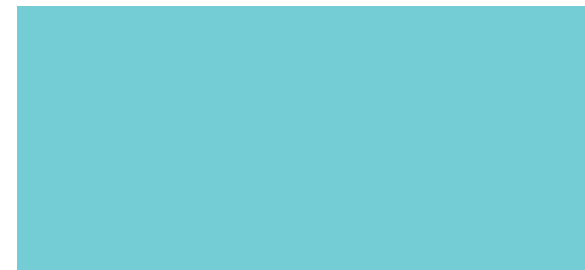
Open for strategic partnerships for the project implementation.





KHARKIV

GREEN CITY



3

Electric Transport Rolling Stock Renewal (Trolleybuses)



Description:

The project consists of:

- provision of efficient passenger services by overland electric transport in Kharkiv;
- purchase of low-floor trolleybuses, spare parts, tools, expendable materials, equipment for trolleybus maintenance and repairs;
- purchase of autonomous running trolleybuses.

Promoter:

Kharkiv City Council,
Municipal Enterprises
“Trolleybus Depot No.3”
and “Trolleybus Depot No.2”.

Funding Model:

Co-financed by EIB, EBRD, city budget.
Open for various co-financing
partnerships.

Expected Results:

- provision of high quality trolleybus transportation services to the population taking into account the needs of passengers with disabilities;
- better comfort and safety of passenger services;
- extended transportation capabilities for passengers with disabilities;
- reduced operating costs;
- fewer traffic congestions;
- re-orientation of passenger traffic from the motor to environmentally friendly electric transport;
- improved environmental condition of the city.

Current Status:

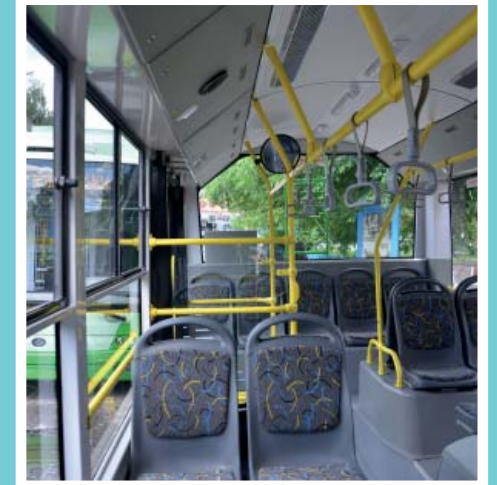
57 new trolleybuses received within the framework of cooperation with EBRD.

49 trolleybuses to be received within the framework of cooperation with EIB by the end of 2021.

50 autonomous running trolleybuses purchased within the framework of cooperation with national banks.

New routes opened in the city.

The city is looking for partners to continue rolling stock renewal of city public transport, namely: purchase of electrobuses.



Creation of municipal public bus transportation



Description:

Acquisition of buses equipped with Euro 6 engines for creation of municipal public transportations is a new approach to organization of passenger transportations in Kharkiv.

Within the Project the city will be provided with modern municipal transport that meets all safety and inclusion requirements. Its purpose is to ensure quality services to city residents, create competition for private carriers, as well as service municipal routes that used to be outside the coverage of the private public transport for economic reasons.

Promoter:

Kharkiv City Council

Funding Model:

Co-financed by city budget and national banks of Ukraine

Open for various co-financing partnerships.

Expected Results:

- provision of high-quality municipal bus transportation services taking into account the needs of passengers with disabilities;
- improvement of passenger transportation comfort and safety;
- reduction in traffic jams;
- creation of competitive conditions for private carriers, which will encourage improvements in the quality of passenger transportation services in the city;
- cashless fare payment with the "E-ticket" travel card for all types of municipal public transport;
- improvement of the city's environmental condition of the city by decreasing emissions of carbon monoxide (CO) and nitrogen oxide (NOx), which significantly reduces the negative effect on people's health.

Current Status:

Under implementation.

By the end of 2021, it is planned to receive 150 buses.

Prospects:

It is planned to expand the bus fleet over the next four years.

The possibility of localization of bus production in Kharkiv is under consideration.



Rolling Stock Renewal in Kharkiv Metro

Description:

The project consists of:

- purchase of five-carriage metro trainsets along with the spare parts and expandable materials, equipment, tools for maintenance and repairs and related services.

Promoter:

Kharkiv City Council,
Municipal Enterprise
"Kharkivskyi Metropoliten"

Funding Model:

Co-financed by:
EIB and city budget.

Expected Results:

Provision of high quality transport services by:

- increasing the number of the rolling stock units on the metro lines;
- decreasing the intervals between the trains;
- cutting down the travel time in the public transport from the central part of the city to its remote districts;
- improving the cost effectiveness of the metro;
- ensuring safe and comfortable passenger transportation;
- improving the ecological situation in the city.

Current Status:

- The Loan Transfer Agreement has been signed between EIB, the Ministry of Finance of Ukraine, the Ministry of Infrastructure of Ukraine and Kharkiv City Council.
- The tender has been conducted and awarded in compliance with the EIB requirements.

Next Stages:

- contract signing with the Contractor;
- the delivery of the rolling stock of five-carriage metro trainsets is planned by 2023.



Kharkiv Tram Fleet Renewal



Description:

Urban electric transport development today is a priority direction in satisfaction of the public needs in quality transportation. The main criteria for effective operation of passenger electric transport are passengers' safety and comfort, as well as abatement of the adverse effect on the natural environment.

To improve the quality of transport services provision and to bring them up to the european standards, Kharkiv City Council has initiated a project that consists in the purchase of modern low-floor tram cars equipped to meet the needs of physically challenged passengers.

Promoter:

Kharkiv City Council.

Funding Model:

Co-funded from city budget and support of IFIs.
Open for various co-financing partnerships.

Expected Results:

- passenger traffic increased by 18 mln passengers per year;
- improved quality, comfort and safety of tram transportation services, including with regard to the needs of physically challenged passengers;
- increased trams share in passenger transportation;
- reduced interval of units movement on routes thanks to the increased number of units in the fleet;
- re-orientation of passenger traffic from motor to ecologically clean local electric transport;
- reduced operating costs thanks to decommissioned obsolete units;
- improved environmental condition in the city thanks to cut down CO₂ emissions as a result of the reduced number of route taxis and motor-cars.
- more efficient implementation of the project of traction substations modernization and reconstruction, which, combined with the renewed tram fleet, will contribute to a significant environmental effect.

Current Status:

Ongoing renewal of tram tracks from the city budget.
Preliminary feasibility study under development.



Reconstruction of Maxim Gorky Central Park for Culture and Leisure



Gorky Park today is:

- the largest recreational area (60 ha) in the city attended daily by dozens of thousands of people (up to 70,000 on holidays and in high season);
- more than 30 attractions from Italian, German, American manufacturers;
- thematic zones for all ages and interests: Children's Park, Extreme Park, Family and Fun Zone, French Park, Retro Park, Medieval Square, Sports.

Promoter:

Kharkiv City Council,
Municipal Enterprise
"Maxim Gorky Central Park for
Culture and Leisure".

Funding Model:

Co-funded from city budget, support of IFIs.

Results:

- Gorky Park is a unique project, second to none in Ukraine;
- It is an example of full modernization and reconstruction of a city entertainment park;
- It was awarded the International Golden Pony Awards for its modern concept and thematic design;
- It ranks 15 in the TOP-25 best parks of Europe;
- The Guardian ranked the Park's cable road in the TOP-10 best cable roads of the world.

Reconstruction included:

- replacement of all the park attractions, road surface of its alleys;
- installation of the biggest in Ukraine Ferris wheel (55 meters in diameter);
- construction of a sports complex with football fields, basketball and volleyball courts;
- thinning of the old trees and plantation of new ones;
- laying out of flowerbeds and new alleys;
- fencing of the park, etc.

Current Status:

The Park is constantly working on improvement and extension of the scope of its services (new attractions, new quest rooms, further development of its vast territory).

Kharkiv is open to partnerships to continue making the Park great for the city residents and guests.



Taras Shevchenko Gardens Reconstruction



Facts:

Taras Shevchenko Gardens: a natural landmark of local importance included in the Nature Reserve Fund of Kharkiv.

There grow ancient oaks whose age is between 200 and 300 years old.



Promoter:

Kharkiv City Council,
Municipal Enterprise
“Kharkivzenelnbud”.

Funding Model:

Financed from city budget.

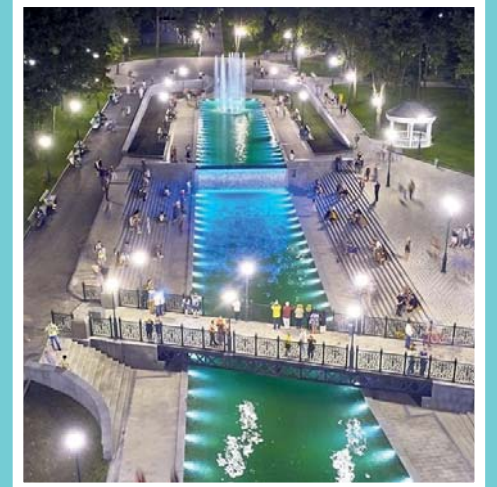
Gardens reconstruction included:

- major overhaul of the Cascade with 1,150 m² of stairs;
- creation of an artificial lake;
- landscaping:
 - 95,000 m² of lawns;
 - 57,000 m² of pavings (asphalt, granite);
- construction of toilets, facilities, gazebos, fountains, pedestrian bridges, a cascade;
- installation of:
 - interesting sculptural compositions with famous people;
 - the 50th Parallel Monument;
 - benches and litter bins;
- setup of:
 - telecommunication networks;
 - an automatic lawn irrigation system;
 - public lighting;
- development and beautification of:
 - children’s playgrounds;
 - a sports ground.

Current Status:

Taras Shevchenko Gardens are constantly being improved and modernized.

The city is open for partnerships in projects aiming to improve urban landscaping for residents and guests.



Reconstruction of Recreational Area “Sarzhyn Yar”



Description:

Sarzhyn Yar today is:

- 18 ha of recreational area in the heart of a busy city;
- a source of mineral water.



Promoter:

Kharkiv City Council,
Municipal Enterprise
“Kharkivzelenbud”.

Funding Model:

Financed from city budget.

Reconstruction of its central part included:

- reconstruction and repairs of:
 - the hat-shaped canopy over the source with decorative starry sky illumination;
 - the sports zones, incl. rubber coating, installation of new sports equipment and ping-pong tables;
 - the water supply and sewerage networks and outdoor lighting networks;
 - the drinking fountains with the replacement of the water supply system;
 - the font area with its bowl replacement, heating system refurbishment and installation of a pavilion for changing;
 - the old stairs with added new ones for convenient access to the area;
 - installation of a children’s playground near the central pond, benches, special places for people to enjoy their time and leisure;
- construction of:
 - a mother-and-child house and two new toilets accessible by people with limited mobility;
 - a new water drainage system;
 - an interactive children’s recreational zone (with decorative lighting, an artificial stream, trampolines, musical stones, etc.);
 - an area of ornamental lakes with a cascade of dams;
- landscape gardening of over 8.0 ha (lawns, various ornamental shrubs and trees);
- replacement of 10,000 m² of pavings;
- extension of the cycling paths by 2.5 km, with construction of new overpasses.

Current Status:

The territory of Sarzhyn Yar is constantly under improvement and development. The city is open for partnerships in projects aiming to improve urban landscaping for residents and guests.



City Zoo Reconstruction



Description:

Kharkiv Zoo:

- is the oldest in Ukraine
- continued its work through World War II and after-war hardships;
- is situated in the center of the city and occupies the area of 15.8 ha;
- was reconstructed in constant cooperation and consultation with the European Association of Zoos and Aquaria and partners from various European Zoos.

Promoter:

Kharkiv City Council,
Municipal Organization
“Kharkiv Zoological Park”.

Funding Model:

Financed from city budget.

Current Status:

Zoo was opened on August 23, 2021.
Construction of new locations is underway.
The city is open for partnerships.

Expected Results:

After the global reconstruction, the Zoo:

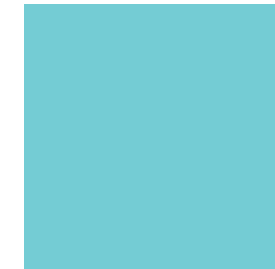
- is the first in Ukraine to meet the European and world standards;
- has modern technologies and forms of animals’ display with no cages or barriers;
- has spacious sections for animals recreating the natural habitats and separated from the visitors with moats, hidden electric or glass fences and the like;
- has modern methods applied to animals treatment ensuring their engagement in different activities;
- is divided into themed sections (“Tiger’s Path”, “African Savanna” and “African Safari”, “South America”, “Wild Australia”, “Coastline World”, “Planet of Apes”, “Kingdom of Elephants”, “Sea World”, “Theater of Nature”, “Contact Zoo”) organized by geography to ensure the display of the variety of animals from a particular region of the world;
- will have a unique oceanarium, the first in Ukraine, where the visitors will have a feeling of being immersed in the ocean;
- has a special section for young visitors (“Contact Zoo”) where kids can feed and play with animals;
- has a House of Young Naturalists.





KHARKIV

SMART CITY



Construction of *Ecopolis HTZ* Business Park



Description:

Ecopolis HTZ Business Park is an innovative diversified new-generation business park of about 500,000 m² uniquely located in the city, with convenient access roads, a metro station and public transport stops within a walking distance. The project concept provides for reconstruction of the Kharkiv Tractor Plant territory into a modern multifunctional business ecosystem.

Project components:

- Industrial cluster: an industrial park, warehouses and production facilities.
- Innovative cluster: a technology park (office IT-cluster), an R&D center, a medical center, an educational center (universities, business school).
- Trade cluster: an e-commerce distribution center, a shopping and entertainment center, accompanying trade.
- Parking.

Promoter:

DCH Group

in partnership with Kharkiv City Kharkiv

Expected Results:

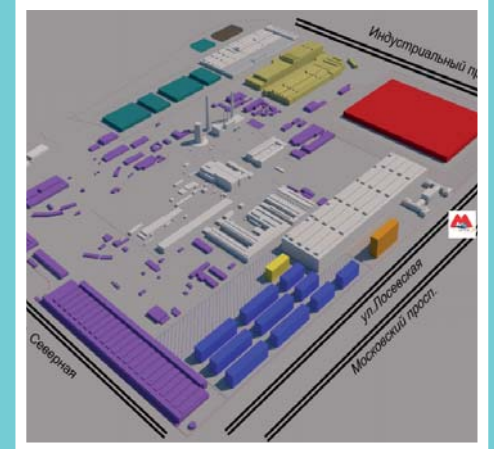
- creation of the largest industrial park in Kharkiv region and Ukraine;
- implementation of an innovative concept of a multifunctional business ecosystem;
- provision of the leading companies with an opportunity to deploy and realize their potential at a high-quality facilities with a developed infrastructure;
- creation of more than 13,000 new jobs in 2020-2033;
- revival of the existing tractor machinery production of Kharkiv Tractor Plant;
- a quick start: prompt use of the existing structures and phase-by-phase implementation;
- tax and customs incentives for residents of the industrial and technology parks;
- effective synergy: joint ventures and R&D centers organized by residents;
- an ideal work space for IT companies;
- modern efficient architecture, energy-saving solutions, sufficient networks and communications, road infrastructure on site.

Current Status:

Project master plan and architectural concept under development.

Project financial model under development.

Negotiations with residents underway.



Construction of Regional Center for Administrative Services



Description:

- The Center was opened in 2017.
- Citizens of Kharkiv and Kharkiv region can get over 400 public services (administrative, social, fiscal, registration, pension) under one roof from 84 bodies, including the Office of the Pension Fund of Ukraine in Moskovskyi district of Kharkiv, the Office of the Social Security in Moskovskyi district of Kharkiv City Council, Moskovskyi District Division of the State Registration of Civil Status Acts in Kharkiv, the Central Office of the State Geocadaastre in Kharkiv oblast, territorial divisions of the State Fiscal Service and the State Migration Service.
- The Center is fully accessible by people with special needs; its officers know the sign language. It provides services at home thanks to the mobile cases with all the necessary equipment.
 - Kharkiv collected the *European Construction Award 2018* and the *Grand Prix* under the *Public Institutions* category for the Center's construction.
 - The Center has its territorial divisions called “Transparent Offices” operating in 9 city districts.

Funding Model:

Co-financing: city budget and USAID.

Promoter:

Kharkiv City Council.

Results:

- transparent service provision thanks to the “open space” format of its organization;
- prompt and quality services, including at-home ones, provided by 320 skilled operators;
- reduced time for getting official papers (with many issued on the day of application);
- an optimized electronic queue management system;
- accessibility by people with special needs;
- offering of all kinds of services and papers in one place;
- a new electronic queue management system implemented to enable residents to plan their visit to the Center or its divisions in advance online, from the Center or with a phone call.

Related Projects:

- district transparent offices created in Shevchenkivskyi and Kyivskyi districts;
- a territorial division opened in the House of Real Estate.

Current Status:

The city is open for strategic partnerships in implementation of the other projects in services provision and their quality assurance.



Smart Transport System Implementation

Description:

The project provides for:

- an integrated transport system for effective navigation and traffic distribution in the city;
- integration of information and communication technologies to improve transport system effectiveness;
- improved intermodal connections and flexible traffic management;
- real-time monitoring of traffic congestion.

Promoter:

Kharkiv City Council,
Municipal Enterprise
“City Information Center”.

Funding Model:

Various co-financing models available.
Open for strategic partnerships for the project implementation.

Expected Results:

- optimized public transport routes;
- saved resources;
- ensuring of transport infrastructure development;
- reduced congestion and harmful emissions;
- better convenience and environmental friendliness of transportations;
- real-time provision of information about public transport services;
- compliance with the rules and regulations ensured by speed cameras installed.



Current Status:

The project is under preparation.



Parking System Modernization

Description:

The project aims to:

- construct a multi-storey parking for 200 vehicles/slots;
- arrange 5 separate parkings for 63 slots;
- implement an e-parking system;
- enable drivers to check availability of parking spaces at any parking lot in the city and to lay their route there using a special application;
- reduce congestions in the city center and areas with heavy traffic;
- save resources and reduce pollution caused by emissions;
- increase the city's revenue from parking services.

Promoter:

Kharkiv City Council,
Municipal Enterprises
"Kharkivparkservis",
"City Information Center".

Funding Model:

Various co-financing models available.

Open for strategic partnerships for the project implementation.

Expected Results:

- improved situation with parking in the city center;
- relieved excess traffic caused by parking;
- reduced traffic congestions and better flow regulation;
- reduced emissions;
- reduced fuel costs;
- increased revenues for the city from better parking fee collection;
- improved quality of life;
- real-time monitoring of parking spaces availability through a mobile application;
- implemented cloud monitoring platforms;
- a better infrastructure for electric cars.



Current Status:

Commissioned.



Smart Street Lighting Implementation

Description:

The Project aims to:

- reconstruct and modernize public lighting;
- ensure adjustability of lanterns brightness and prompt and cost-effective lighting operation maintenance;
- enable remote adjustment of intensity of lamps depending on the natural light and weather conditions;
- ensure continuous monitoring of the lighting equipment through communication modules to be installed.

Promoter:

Kharkiv City Council,
Municipal Enterprise
“City Information Center”.

Funding Model:

Various co-financing models available.

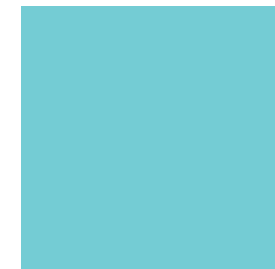
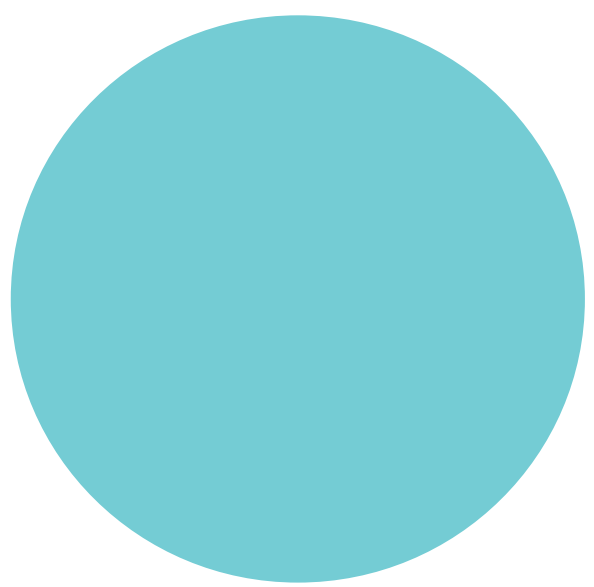
Expected Results:

- reduced expenses on public lighting ensured by lighting control automation;
- reduced light pollution ensured by controlled and adjustable light intensity (reduced CO₂ emissions);
- higher safety for citizens and city guests;
- information support for citizens and city guests;
- projected services and quality feedback;
- traffic monitoring and optimization.



Current Status:

Open for strategic partnerships.



KHARKIV

**CITY OF CULTURE
AND SPORTS**



Construction of sports and recreation complex "Ice Hall"



Description:

The project provides for creation of a multifunctional modern sports complex that will house Olympic sports (hockey, basketball, volleyball, short track, figure skating, curling, judo, boxing, etc.).

The Ice Hall will have: a complex of practice halls, workout rooms, choreography and acrobatics halls, halls for special training of hockey players, training in curling and other sports, as well as buffets and catering areas, food courts and cafes in lounge areas and lodges.

Promoter:
Kharkiv City Council

Funding Model:
Various co-financing models available.

Looking for strategic partners.

Expected Results:

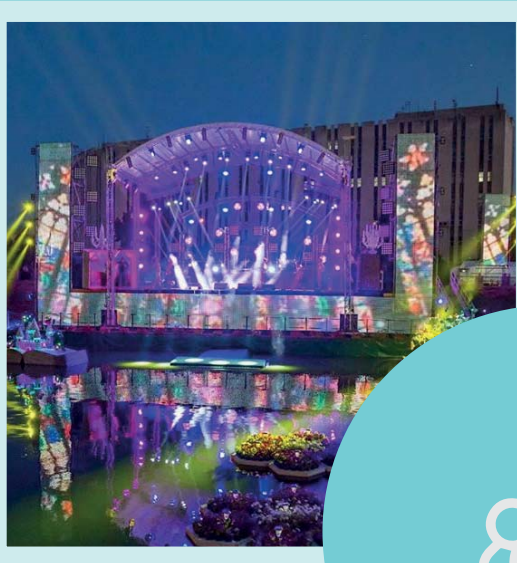
- solution to the problem of hosting large-scale international sports events in the city at a high level;
- creation of comfortable conditions for athletes' trainings in Kharkiv;
- creation of a multifunctional space for public cultural events.



Current Status:
Design works are underway.
Construction is planned to begin in 2022.



Modernization of Municipal Center for Cultural Initiatives



Description:

The reconstruction of the Municipal Center for Cultural Initiatives aims to:

- bring the technical conditions of the Center to compliance with the modern norms and standards ;
- ensure compliance with the performance requirements;
- create quality conditions in the Center for both visitors and employees;
- improve the quality, diversity and effectiveness of the cultural services provided;
- provide conditions for all to access and participate in the cultural life;
- involve children and young people in active socio-cultural activities.

Promoter:

Kharkiv City Council,
Municipal Culture Institution
“Municipal Center for Cultural Initiatives”.

Funding Model:

Various co-financing models available.
Looking for strategic partners.

Expected Results:

- compliance with the modern standards and needs of citizens and city guests;
- provision of conditions for functioning of different groups and teams with the most demanding technical requirements;
- creation of a positive cultural image of the city;
- implementation of new creative ideas of the city’s cultural community;
- provision of the best conditions for holding and hosting of all sorts of cultural events;
- reduced heat consumption in the building.



Current Status:

Interior restoration works underway.
Draft project of building modernization under development.



Acting Space Modernization

Description:

The project aims to:

- create a modern acting space;
- reconstruct the technological systems of the stage and auditorium;
- ensure the ability to comply with the technical requirements of productions;
- increase the revenues through the use of energy-efficient technologies;
- cut the current maintenance costs;
- reduce the prime costs of events.

Promoter:

Kharkiv City Council,
Municipal Culture Institution
“Municipal Center for
Cultural Initiatives”.

Funding Model:

Various co-financing models
available.

Open for strategic partnerships.

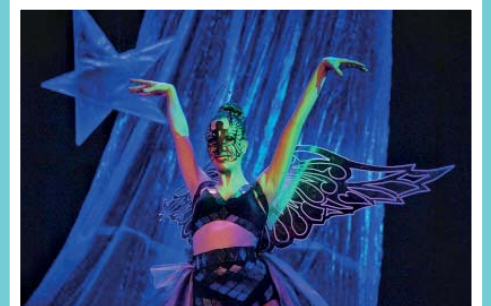
Expected Results:

- compliance with the modern standards and needs of citizens and city guests;
- creation of a positive cultural image of the city;
- provision of a cost-effective place for all sorts of performances and productions;
- creation of conditions for creative search and implementation of new creative ideas.



Current Status:

Draft Project available.



Creation of Urban Parks and Centers



Description:

The city's plan is to open an urban park (9 in total) and an urban center (9 in total) in each city district to promote social, cultural and active lifestyle and bring up a healthy generation.

Today, the city has three opened urban parks with themed grounds comprising skateparks, parkour tracks, workout structures, event zones, street football fields, basketball courts, dancing floors, etc.

The urban center concept aims to:

- create a place to bring together all types of street sports and urban cultures under one roof;
- enable children, teens and young people to engage in what they like all year round;
- unite the youth engaged in street sports and urban cultures to share leisure and activities;
- provide a place where to hold international festivals, competitions, educational forums;
- create an academy of street cultures.

Promoter:

Kharkiv City Council.

Expected Results:

- District residents will have free access to the park and center facilities.
- Favorable conditions will be created for health promotion and recreational opportunities for all categories of the population with regard to their age and interests.
- Bringing together youth street sports and urban cultures will encourage and promote physical, creative, spiritual and intellectual development of children, teenagers and young people.
- The youth engaged in street sports and urban cultures will have a place for joint active pastime and shared interests.
- There will be modern places for holding and hosting international festivals, competitions, educational forums, etc.

Current Status:

Three urban parks are open in three city districts.

Two urban parks are getting prepared for opening, which is planned for autumn 2021.

At least four more urban parks are planned to be open.

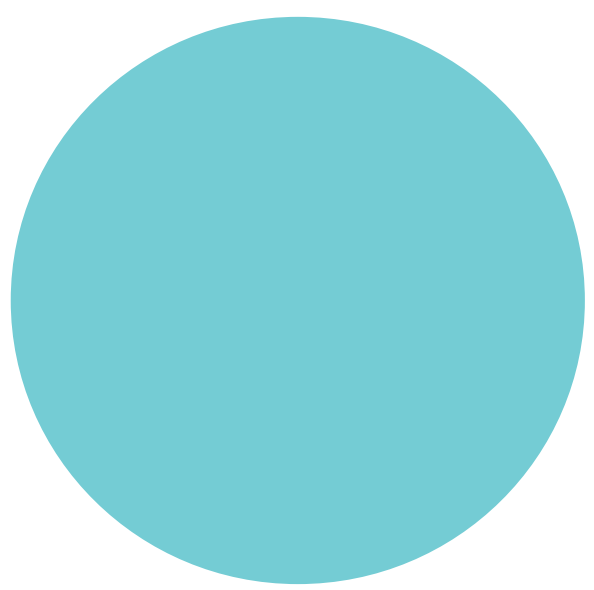
The concept and strategy for creation of nine district urban centers as modern magnets for young people are under development.

Funding Model:

Various co-financing models available.

Open for strategic partnerships.





KHARKIV

CITY OF SOCIAL INITIATIVES



Establishment of City Resource Center for Drug Abuse Prevention



Description:

The city has approved an integrated program “Clean City” for drug abuse prevention and mitigation of harm from use of psychoactive substances.

It provides for:

- implementation of an integrated approach to drug abuse prevention and control;
- creation of a City Resource Center for Drug Abuse Prevention;
- coordination of its work and methodological support;
- treatment and psychological rehabilitation of drug addicts and support to their families.

Promoter:

Kharkiv City Council.

Funding Model:

Various co-financing models available.

Open for strategic partnerships.

The Center will provide:

- medical and legal consultations;
- assistance with rehabilitation for the addicted persons;
- support for families of the addicted persons.

Current Status:

Plan developed, decision made to create a city resource center for drug-abuse control and assistance to addicts.

Large-scale anti-drug campaign at city schools since September 1, 2019.

Information campaign for local TV channels and social advertising campaign for transport and streets underway.



Homeless Reintegration Center Reconstruction



Description:

Large-scale works were carried out on:

- insulation of the face of the building;
- roof repairs;
- replacement of windows;
- electrical rewiring;
- bathroom and toilet refurbishment;
- re-modelling of the living rooms and utility rooms.

Promoter:

Kharkiv City Council,
Municipal Institution
“Homeless Reintegration Center”.

Funding Model:

Co-funded from city budget and Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH (under the project “Strengthening social infrastructure for hosting internally displaced persons”).

Expected Results:

- The Center provides social services for up to 165 people at a time.
- People who have become homeless for whatever reason can spend an unlimited amount of time in the shelter.
- Ex-convicts can stay up to three months there until they re-establish their social connections.



Current Status:

Re-opened in 2018.



Social Hotel Creation



Description:

- The Social Hotel includes fully equipped and furnished rooms for living, bathrooms and lavatories, a laundry room, a kitchen, a quick check-in room.
- One can stay in the hotel for up to 90 days at about 2 US dollars per night.
- Receptionists on duty ensure 24/7 check-in for people in need of a place to stay.
- The team ensuring the work of the hotel is 15 people.
- The hotel also offers consulting services and assistance in documents restoration.

Promoter:

Kharkiv City Council.

Funding Model:

Co-funded from city budget and Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH (under the project “Strengthening social infrastructure for hosting internally displaced persons”).

The “Social Hotel” in Kharkiv is:

- one of a kind in Ukraine;
- a socially oriented municipal institution opened in Kharkiv on November 14, 2017;
- 19 rooms that can admit 50 people;
- a place to stay for people who have found themselves in difficult life circumstances and have nowhere to live as well as for internally displaced persons;
- adapted for people with disabilities;
- operating 24/7.



Current Status:

Open for strategic partnerships for the project extension.



Hospital Nutrition System Modernization

Description:

The project consists of provision of the food unit at the Municipal Enterprise “Sigma” with new energy-efficient equipment meeting all the standards in order to improve the nutrition services for patients and the quality of products made.

The food unit daily provides hot meals for six medical institutions in Moskovskyi district of Kharkiv servicing 1,200 people.

In future, such food units are planned to cover all the medical institutions of the city.

Promoter:

Kharkiv City Council,
Municipal Enterprise “Sigma”.

Funding Model:

Various co-financing models available.

Open for strategic partnerships.

Expected Results:

- improved nutrition services for patients in medical institutions;
- an extended range and better quality of products ensured by the use of new cooking technologies;
- reduced expenses on utility bills and timely settlements with suppliers;
- additional funds available for further development of the enterprise;
- higher wages for employees.



Current Status:

Business plan developed, all technological processes calculated.



Contact Information

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