



Please note that the EUCF application form must be submitted in English language.

— Identification of the application

Application ID [?]

03PL000610X

Title of proposed investment concept [?]

Bydgoszcz - the city of clean energy

— Identification of the applicant

Name of the municipality/local authority, grouping, or local public entity [?] aggregating municipalities/local authorities [?]

City of Bydgoszcz

Type of Applicant [?]

Municipality / local authority or grouping

Organization (legal entity) [?]

Miasto Bydgoszcz

Department [?]

Energy Management Office

Street, No. [?]

Jezuicka, 1

Postal Code, City [?]

85-102, Bydgoszcz

Country [?]

Poland

Population size [?]

344091

Contact person [?]

Zespół Zarządzania Energią

Telephone [?]

+48 052 585 94 90

Email [?]

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zze@um.bydgoszcz.pl

+ LAU and NUTS 3 code of the municipality/local authority or of each municipality/local authority in case of a grouping

Lead applicant [?]

Country [?]

NUTS 3 [?]

Municipality/local authority [?]

LAU Code [?]

Poland

Bydgosko-Torunski

Bydgoszcz

1004041066101

+ -

— Development of the investment concept

Allocation of grant amount [?]

Please indicate how the grant resources will be allocated for the development of the investment concept (note: more than one answer is possible).

For monitoring purposes only. This requirement will not be evaluated.

- In-house staff External experts/sub-contractors
 Others - please specify below (max. 250 characters, including spaces)

Activities funded by grant amount [?]

Please indicate the missing component(s) for the development of the intended investment concept and explain how the EUCF grant can fill this gap. Briefly state the activities for which the EUCF grant is needed (e.g. engineering analysis, legal analysis, social study, market study, financial analysis, etc.).

Max. 1,000 characters, including spaces. For monitoring purposes only. This requirement will not be evaluated.

of energy prices. In 2020 it conducted inventory for installation of PV farms on brownfields: unused land and landfill. The assessment shows 10 locations on nearly 50 ha. The project called Bydgoszcz - the city of clean energy is on the initial stage, but already mentioned in city plans. The idea involves construction of PV farms and H2 energy storage in one location. The EUCF grant will allow to prepare the project concept in order to gain funds or provide investors with information and to transform climate and energy plans into investments. The following documents are needed: technical documentation, environmental assess., enagement of stakeholders, legal and financial (costs and revenues, funding opportunities) and market analysis, replication for other areas, ownership of

Governance for investment concept development [?]

Please describe the internal organisational structure for the development of the investment concept, including a clear identification of the roles and responsibilities of the actors involved as well as decision-making processes (who are the actors with decision-making power and how are decisions taken). Please indicate also if internal capacities are sufficient for the investment concept development or if external experts should be involved and how they can provide a value added (e.g. areas with need for capacity building).

Max. 1,500 characters, including spaces.

The city has the staff being able to implement the project. Energy Management Office (EMO) will coordinate conceptual works, implementation of Investment will be handed over to Investment Dep. Head of EMO has letter of attorney from Mayor. EMO engineer will validate experts, financial manager provide applicable management. The working group (WG) will be set up for realization of EUCF concept and future investment. Solutions will be consulted with the group and approved by the Coordinator, when necessary by Mayor. Members of the WG: EU Funding Dep., Urban Planning Office, Environment Dep., Investment Dep, municipal companies: Municip

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Engagement of stakeholders and citizens [?]

Please highlight important stakeholders (e.g. civil society, economic actors) and their needs and expectations towards the envisaged investment project. Please explain how these stakeholders are planned to be involved in the process of the investment concept development, including a description of the planned engagement activities and communication instruments with corresponding timings and objectives.

Max. 1,500 characters, including spaces

Stakeholders (STH) have experience and valuable input for this project. The process of involving STH: identification, invitation, engagement, retention. STH of the investment projects are two main groups: internal and external. Internal are the municipal departments and companies: EU Funding Dep., Urban Planning Office, Environmental Dep., Invest. Dep, municipal companies: Municipal Waterworks, Inter-municipal Waste Disposal Complex Pronatura, Municipal Heat Energy, Management of Municipal Roads and Commuting, Integrated Territorial Investment, Bydgoszcz Development Agency. External STH 1. municipalities in FUA area, FUA Office, education and research:

Implementation of the investment project

Investment sector(s) targeted [?]

Please indicate the sector(s) targeted by the investment project and highlight the main sector.

- | | | | |
|---|-----------------------------------|--|-----------------------------------|
| <input type="checkbox"/> Public Buildings | Main sector <input type="radio"/> | <input type="checkbox"/> Building integrated renewables | Main sector <input type="radio"/> |
| <input type="checkbox"/> Residential buildings | <input type="radio"/> | <input type="checkbox"/> District heating | <input type="radio"/> |
| <input type="checkbox"/> Sustainable urban mobility | <input type="radio"/> | <input checked="" type="checkbox"/> Innovative energy infrastructure | <input checked="" type="radio"/> |
| <input checked="" type="checkbox"/> Smart Grids | <input type="radio"/> | <input type="checkbox"/> Others - please specify below (max. 250 characters, including spaces) | <input type="radio"/> |

Intended measures [?]

Please state the intended technology measure(s) to be financed. Non-eligible technology measures under the EUCF are aligned with the new [European Investment Bank \(EIB\) energy lending policy](#), adopted on 14 November 2019.

Max. 1,000 characters, including spaces

The project consist of the construction of PV farms with demonstration hydrogen storage on the brownfields: unused land and landfill. The planned farms are maintenance-free installations. The operation of PV farm consists of the production of electricity from generators, photovoltaic and conversion to alternating power through inverters. The basic element is the solar panel. The panels will be attached to a steel structure, anchored directly in the ground. Approx. 1600 panels with a peak power of 0.4 kW each are estimated. The farm will consist of the following: PV panels, internal roads, above-ground and underground infrastructure, energy-fiber cable lines, power

Expected investment size [?]

Please indicate the total expected investment size [?] (approximate amount) and attach the corresponding calculation log in the Annex E.

Expected investment size [?]

31 264 019

EUR

Expected impacts [?]

Please indicate the expected energy savings and/or renewable energy production generated by the investment project (approximate amount) and attach the calculation log in the Annex D.

Expected energy savings [?]

39.000

GWh/y

Expected renewable energy production [?]

39.000

GWh/y

If (initial) estimations for any other impacts (e.g. avoided CO2 emissions, job creation, etc.) have already been

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please outline them and attach the corresponding calculations/supporting documents to the application form, if available.
Max. 500 characters, including spaces

RES energy production generated by the investment project is estimated at 39 GWh/year. RES production at the moment is 79,6 GWh/y. Taking into account current and planned investments (including this project) it exceeds 200 GWh/y of RES energy in the future. Communal emission of GHG in 2020 was c.a.138 000 tCo2/y, it consist of 6,6% share of the City. CO2 saving generated by this project is 46 104 t CO2eq/y, which comprise a significant value.

Potential for replication and/or upscaling

Please explain how the investment project could potentially be replicated in other contexts and/or up-scaled (in the region), if known at this stage.

Max. 1,000 characters, including spaces

Based on the OnGeo.pl portal, in 2020 it was 2112 PV farms with building permit in Poland including 142 in our region. These farms have potential for replication of the green H2 storage, especially when the draft of Hydrogen Strategy in Poland introduces new aims and financial plans and national research program offers funds for hydrogen storage. The concept will pave the way for cities to use the european and national funds for RES. At the local level the Municipal Planning Office shall appoint other land for PV farms in spatial plans, the concept will be up-scaled in Bydgoszcz and in FUA area. Brownfield development for RES is replicable worldwide. The project

— Annexes

Please note that the [templates provided by the EUCF](#) must be used for the submission of the supporting documents. All supporting documents (except for the SEAP, SECAP or plan of similar ambition) must be submitted in English language. To facilitate the submission of the supporting documents, explanatory videos are available on the EUCF website.

Annex A.1: SEAP, SECAP or plan of similar ambition

SEAP, SECAP or plan of similar ambition



Choose a file or drag it here.

[Annex A1 SEAP for the City of Bydgoszcz for 2012-2020.pdf \(1,7 MB\)](#)

Annex A.2: SEAP, SECAP or plan of similar ambition summary

SEAP, SECAP or plan of similar ambition – Summary [[template](#)]



Choose a file or drag it here.

[Annex A.2 SEAP SECAP or Plan of similar ambition - Summary 1 \(3\) Bydgoszcz 26.11.pdf \(349,0 kB\)](#)

Annex B: Letter of support to the project by the Mayor or other relevant political representative

Letter of support to the project by the Mayor or other relevant political representative [[template](#)]



Choose a file or drag it here.

[Annex B letter of political support Bydgoszcz.pdf \(506,8 kB\)](#)

Annex C: Self-declaration form by a legal representative of the municipality/local authority, grouping or local public entity aggregating municipalities/local authorities

For municipalities/local authorities or groupings [[template](#)]

For local public entities aggregating municipalities/local authorities [[template](#)]



Choose a file or drag it here.

[Annex C self-declaration Bydgoszcz.pdf \(603,2 kB\)](#)

Annex D: Calculation log – Expected energy savings and/or renewable energy production

Calculation log – Expected energy savings and/or renewable energy production [[template](#)]



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Choose a file or drag it here.

[Annex D Estimation of Energy Savings Bydgoszcz 2 \(1\)\(1\).xlsx \(104,8 kB\)](#)

Annex E: Calculation log/support document – Expected size of investment 

Calculation log – Expected size of investment [\[template\]](#)



Choose a file or drag it here.

[Annex E Estimation of Investment Size 1 \(1\)\(1\).xlsx \(51,1 kB\)](#)

Additional calculation log/supporting document 



Choose a file or drag it here.

Additional calculation log/supporting document 



Choose a file or drag it here.

Additional calculation log/supporting document 



Choose a file or drag it here.

Additional calculation log/supporting document 



Choose a file or drag it here.

Before submitting your application for evaluation, please verify if all fields of the application form are completed and if all supporting documents have been correctly uploaded. Detailed information on the application process and requirements can be found in the [EUCF Guidelines for Applicants](#)

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