



EUCF
European City Facility

1st Call
Investors Report
May 2021

Table of Contents

What is the European City Facility? _____ 4

Investment Sectors and Regions _____ 5

Investment Size per Region _____ 6

Beneficiaries: by Country _____ 7

Intended Measures by Country: Detailed Overview _____ 8

Belgium, Bulgaria, Croatia, Denmark, Germany, Hungary, Italy,
Lithuania, Malta, Netherlands, Poland, Portugal, Spain,
United Kingdom



What is the European City Facility?

The European City Facility (EUCF) is funding facility set up under the Horizon programme for Research and Innovation of the European Union. It provides tailor made and simplified financial support (grants of EUR 60 000) and capacity building services to municipalities and local authorities in European Union. The objective is that these entities develop sound investment concepts and mobilise finance in the field of sustainable energy.

The EUCF provides support for investment projects within the field of sustainable energy, including all investments on the energy demand side, which contribute to the improvement of energy performance and the achievement of energy savings.

The EUCF 1st call was open from May 25th to October 2nd 2020. Amongst 257 applications from all over Europe, 30 beneficiaries received the EUCF grant to create their investment concepts.

What happens next?



**The EUCF
provides support
for investment
projects within the
field of sustainable
energy**

The selected beneficiaries from the 1st EUCF call will create their investment concepts until the end of 2021. After validation, the investment concepts will be ready to be presented to potential investors. The resulting concepts will also be an initial step towards a fully-fledged business and financial plan.

Potential investors are invited to contact the EUCF by registering to the EUCF investors network and obtain more detailed information about EUCF supported projects and investment concepts. By joining the EUCF Investor Network, you will be given the chance to engage with EUCF cities, receive first-hand information on their investment concepts and seek opportunities to finance sustainable energy actions across Europe.

The current report provides a summary of the projects that have been selected in the 1st EUCF call, with an overview of investment sectors and locations



Investment Sectors and Regions

The 30 local authorities that are beneficiaries from the 1st EUCF Call are divided into three regions: Central and Eastern Europe (CEE), Nordic countries & Western Europe (NC&WE) and Southern Europe (SE).

Among the investment sectors targeted by the call, beneficiaries can be found amongst

a variety of sectors: public buildings, residential buildings, building integrated renewables, district heating, smart grids, sustainable urban mobility, and innovative energy infrastructure. The public buildings sector is the most targeted in the CEE and SE regions. In the NC&WE region, the development and use of building integrated renewables has been the most selected.

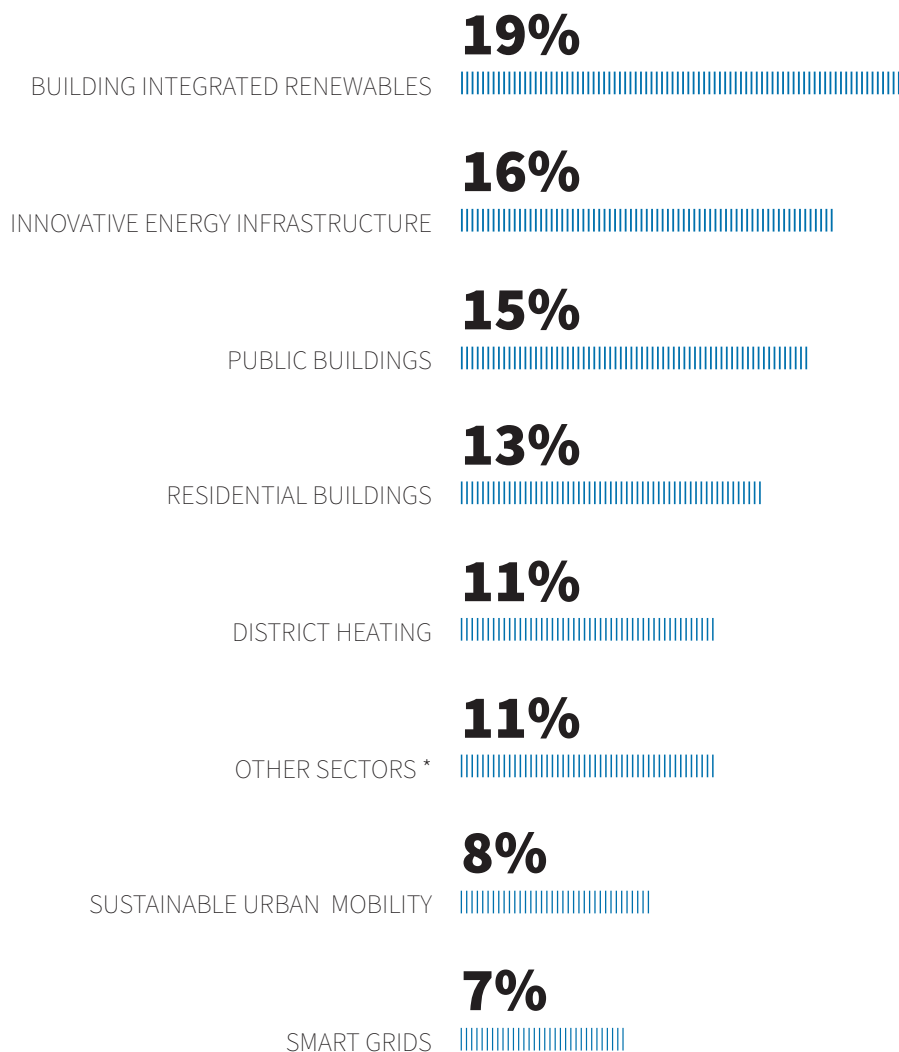


Figure 1: Distribution of the selected projects by Investment sector.
Please note that one investment project may target more than one sector.



Investment Size Per Region

€ INVESTMENT
SIZE

EXPECTED
ENERGY SAVINGS

EXPECTED
RENEWABLE ENERGIES

CENTRAL
& EASTERN EUROPE (CEE)

629
MILLION €

467,6
GWh/y

598
GWh/y

NORDIC COUNTRIES
& WESTERN EUROPE (NC&WE)

2.641
MILLION €

744
GWh/y

2.688
GWh/y

SOUTHERN EUROPE (SE)

449
MILLION €

67
GWh/y

287
GWh/y

TOTAL

3.719
MILLION €

1.278
GWh/y

3.572
GWh/y



Beneficiaries by Country



Figure 2: Map of the 30 projects selected in the 1st call of the EU City Facility. The detailed descriptions of these projects can be found in the summary, in the section titled “Intended measures by country”.



The background is a solid blue color. Overlaid on this are various white line patterns. These include several concentric squares and rectangles of different sizes, some of which are slightly offset from each other. There are also more complex, interlocking geometric shapes that resemble stylized letters or architectural elements. The patterns are scattered across the page, with a higher density in the upper right and lower right areas, and a more sparse distribution in the lower left.

Intended Measures by Country: Detailed Overview

Belgium

MUNICIPALITY

Schaerbeek



INVESTMENT SIZE

886

MILLION €

RENEWABLE ENERGIES

13

GWh/y

ENERGY SAVINGS

197

GWh/y

MEASURES TO BE FINANCED AND SECTORS

The investment concept targets major energy renovation of public buildings, mainly administrative offices, municipal schools and sport facilities through retrofitting of HVAC installations with advanced regulation, relighting/re-lamping, renewable energy (heat pump, water solar heating, PV), envelope insulation, smart metering and monitoring of energy efficiency, possibly using the IPMVP protocol.

TARGETED SECTORS

Public buildings

Bulgaria

MUNICIPALITY

Dobrich



INVESTMENT SIZE

40

MILLION €

RENEWABLE ENERGIES

30

GWh/y

ENERGY SAVINGS

66

GWh/y

MEASURES TO BE FINANCED AND SECTORS

Implementation of integrated package of energy efficiency measures in municipal buildings and multifamily residential buildings including thermal insulation of walls, replacement of windows, changing the lights with LED, PV installations for hot water and roof photovoltaic systems for electricity production.

TARGETED SECTORS

Public buildings, Building integrated renewables, Residential buildings

Croatia

MUNICIPALITY

Velika Gorica



INVESTMENT SIZE

23

MILLION €

RENEWABLE ENERGIES

15

GWh/y

ENERGY SAVINGS

20

GWh/y

MEASURES TO BE FINANCED AND SECTORS

The technology measures include a deep renovation of almost 1000 houses and three public buildings in order to reach nZEB or positive energy building standard, containing buildings envelope, new doors, windows and in-house heating and cooling installations. A 1.8 MW PV installation, a new district heating system with a 4 MW heating plant along with 1.5 km heating interconnection with an industrial facility and a 5.5 MW biomass heating plant are planned. Moreover, installation of district heating pipes and substations is considered. All public lighting will be changed to new LED.

TARGETED SECTORS

Public building, Building integrated renewables, Residential buildings, District heating, Innovative energy infrastructure, Smart Grids



Croatia

MUNICIPALITY

Rijeka



INVESTMENT SIZE

78

MILLION €

RENEWABLE ENERGIES

150

GWh/y

ENERGY SAVINGS

138

GWh/y

The investment concept includes various technological solutions for environmental protection, energy and mobility such as production of biogas from municipal bio-waste, design and construction of plant with UHTH technology for production of synthetic gas from the waste material, public lighting, electrical mobility and on-site production of hydrogen from excess renewable electricity sources ("green hydrogen").

TARGETED SECTORS

Public building, Residential buildings, District heating, Sustainable Urban mobility

MUNICIPALITY

Karlovac



INVESTMENT SIZE

32

MILLION €

RENEWABLE ENERGIES

41

GWh/y

Geothermal energy utilization in the city of Karlovac, including borehole drilling, heat storage tank construction, transceiver station construction, access pipeline construction, pump room/station construction, improving eco package of the current boiler (58MW), construction of a solar power plant, refurbishment of the existing district heating system and plant operation and maintenance.

TARGETED SECTORS

Building integrated renewables, innovative energy infrastructure, Smart Grids

Denmark

MUNICIPALITY

Nyborg



INVESTMENT SIZE

66

MILLION €

RENEWABLE ENERGIES

223

GWh/y

MEASURES TO BE FINANCED AND SECTORS

Transition to renewable energy sources by producing enough green electricity to cover the need of electricity in the municipality (citizens, public buildings, businesses and industries). The main focus is PV technologies and solar cell parks.

TARGETED SECTORS

Innovative energy infrastructure



Denmark

MUNICIPALITY

Samsøe



INVESTMENT SIZE

13

MILLION €

RENEWABLE ENERGIES

55

GWh/y

ENERGY SAVINGS

40

GWh/y

MEASURES TO BE FINANCED AND SECTORS

The project aims to investigate and develop options for a biogas liquefaction according to the approved SECAP action to meet the ambitious climate plan for Samsøe municipality. The project will analyse investment into the innovative micro-scale liquefaction processes using purification and biogas upgrading, bio methane liquefaction and potential use of “waste” CO₂.

TARGETED SECTORS

Sustainable urban mobility, Innovative energy infrastructure, Others

Germany

MUNICIPALITY

Rostock



INVESTMENT SIZE

24

MILLION €

RENEWABLE ENERGIES

35

GWh/y

MEASURES TO BE FINANCED AND SECTORS

The aim of the investment concept is to expand the solar energy production in the region of Rostock expanding solar parks, photovoltaic and solar thermal plants in open space.

TARGETED SECTORS

Building integrated renewables

Hungary

MUNICIPALITY

Gyöngyös



INVESTMENT SIZE

196

MILLION €

RENEWABLE ENERGIES

1.9

GWh/y

MEASURES TO BE FINANCED AND SECTORS

The intended measures include a two-circles 350 MW geothermal power plant with a heat exchanger and a power generating steam turbine, 13 production and 9 re-injection thermal wells. The 4.7-kilometer-long district heating line will be renewed. Expanding the district heating system aims to supply several public and residential buildings.

TARGETED SECTORS

Public building, Building integrated renewables, Residential buildings, District heating, Innovative energy infrastructure



Hungary

MUNICIPALITY

Hódmezővásárhely



INVESTMENT SIZE

57

MILLION €

RENEWABLE ENERGIES

103

GWh/y

ENERGY SAVINGS

95

GWh/y

MEASURES TO BE FINANCED AND SECTORS

The investment concept targets four investment objectives, including 10 investment components (ICO), which are a complex renewable energy investment program (renewable energy production of 102,8 GWh/year) based on geothermal energy and district heating.

TARGETED SECTORS

Public building, Building integrated renewables, Residential buildings, District heating, Innovative energy infrastructure

MUNICIPALITY

Mórahalom



INVESTMENT SIZE

45

MILLION €

RENEWABLE ENERGIES

100

GWh/y

MEASURES TO BE FINANCED AND SECTORS

The aim is to establish a large-scale geothermal district heating system. The investment concept includes assessment of geological and technological (in particular drilling) risks and their mitigation solutions in order to establish a realistic default rate.

TARGETED SECTORS

District Heating

MUNICIPALITY

Veszprém (Ajka)



INVESTMENT SIZE

108

MILLION €

RENEWABLE ENERGIES

35

GWh/y

ENERGY SAVINGS

115

GWh/y

The intended technology measures are: energy efficient renovation of public buildings with building integrated renewable energy generation, energy efficient renovation of residential buildings with building integrated renewable energy generation or/and green energy purchase option for the inhabitants, energy efficient transformation of the industrial and service sector, off-site renewable energy generation with PV power plants, sustainable urban mobility and smart energy projects (intelligent traffic control system, intelligent public lighting system, smart grids).

TARGETED SECTORS

Public building, Building integrated renewables, Residential buildings, Sustainable Urban mobility, Smart Grids



Italy

MUNICIPALITY

Pinerolo



INVESTMENT SIZE

14

MILLION €

RENEWABLE ENERGIES

0.8

GWh/y

ENERGY SAVINGS

8.6

GWh/y

MEASURES TO BE FINANCED AND SECTORS

The technology measures are related to energy efficiency improvement to the building envelope and building system including insulation systems for external walls, roof and ceiling, new windows, new heat generator, gas-fired small boilers, smart meters, building automation. Integrated renewable power plants (PV) on public buildings and connected with storages and smart grid, LED technologies, replacement of public buses with new electric or hydrogen vehicles, electric recharging grid and new bicycle lanes will be also considered.

TARGETED SECTORS

Public Buildings, Building integrated renewables, Sustainable urban mobility

MUNICIPALITY

Ravenna (Alfonsine)



INVESTMENT SIZE

16

MILLION €

RENEWABLE ENERGIES

0.9

GWh/y

ENERGY SAVINGS

6.9

GWh/y

MEASURES TO BE FINANCED AND SECTORS

The investment concept will set up a moderate & deep retrofitting strategy of buildings reducing up to 60% primary energy by applying an EPC scheme through renewables integrated in buildings, district heating, innovative energy infrastructures in residential and public buildings.

TARGETED SECTORS

Public Building, Building integrated renewables, Residential buildings, Innovative energy infrastructure.

MUNICIPALITY

Castel San Pietro Terme



INVESTMENT SIZE

3

MILLION €

RENEWABLE ENERGIES

19

GWh/y

MEASURES TO BE FINANCED AND SECTORS

The project foresees to realise investment and manage the sustainable mobility of the APEA industrial district including Metrobus service for the companies, integrated ticket to use different mobility services, Smart Bus stations, creation of bicycle paths, electric charging stations, bike sharing and car sharing services, car-pooling platform etc.

TARGETED SECTORS

Innovative energy infrastructure



Italy

MUNICIPALITY

Isola Vicentina



INVESTMENT SIZE

12

MILLION €

RENEWABLE ENERGIES

1.2

GWh/y

ENERGY SAVINGS

4.4

GWh/y

MEASURES TO BE FINANCED AND SECTORS

The technology measures include energy web-GIS upgrade, structuring of a digital abacus, streamlining of the bureaucracy and online support service, business model of the “standard neighbourhood”, new online system to grant and gain tax credits under the supervision of the Local Authority and creation of a standard contract to introduce ESCOs in the local market.

TARGETED SECTORS

[Residential buildings](#)

Lithuania

MUNICIPALITY

Visaginas



INVESTMENT SIZE

24

MILLION €

RENEWABLE ENERGIES

68

GWh/y

ENERGY SAVINGS

1.5

GWh/y

MEASURES TO BE FINANCED AND SECTORS

The intended technology measures are:

1. CHP, which uses woodchips material.: installation of CHP, connection to heat and electricity networks.

2. Modernization of street lightning: replacements - existing sodium lamps to LEDs, old lighting bearers; reconstruction - street lighting network; modernization - control station; installation of intelligent street lighting system control equipment.

3. Solar power plant: installation of solar cell systems, connection of solar power plant to the electricity network of national grid.

4. Storage power plant to provide grid energy storage. The SPP operates in conjunction with all LT green electricity energy producers. As the time of energy production and consumption may differ, the storage will allow to match it. That can lead to reduced price of the electricity. Installation and connection SPP to the national grid is foreseen.

TARGETED SECTORS

[Residential buildings](#)



Malta

MUNICIPALITY

Isla (Cottonera)



INVESTMENT SIZE

14

MILLION €

RENEWABLE ENERGIES

15

GWh/y

MEASURES TO BE FINANCED AND SECTORS

The investment concept will focus on the on-site energy generation through the use of building integrated photovoltaic systems on the roofs of selected warehouses to replace asbestos roofs as well as BIPV with a low architectural impact for the building envelope for buildings in the three localities.

TARGETED SECTORS

Building integrated renewables

Netherlands

MUNICIPALITY

Hoorst aan de Maas



INVESTMENT SIZE

796

MILLION €

RENEWABLE ENERGIES

78

GWh/y

ENERGY SAVINGS

242

GWh/y

MEASURES TO BE FINANCED AND SECTORS

Replacing the use of natural gas for cooking and heating with sustainable electric alternatives, installation of heat pump, upgrading the energy efficiency of buildings to level B (preferably A) and installing more solar panels on roofs.

TARGETED SECTORS

Public Buildings, Building integrated renewables, Residential buildings, Innovative energy infrastructure

MUNICIPALITY

Westland



INVESTMENT SIZE

250

MILLION €

RENEWABLE ENERGIES

1850

GWh/y

MEASURES TO BE FINANCED AND SECTORS

Creating a regional 5th generation heat system, covering the entire municipality connecting the various heat clusters with each other and with customers (greenhouse horticulture and the built environment) by building a pipe network and an intelligent dynamic supply-demand parity operating system.

TARGETED SECTORS

District heating, Innovative energy infrastructure, Smart Grids



Netherlands

MUNICIPALITY

Rheden



INVESTMENT SIZE

136

MILLION €

RENEWABLE ENERGIES

5.3

GWh/y

ENERGY SAVINGS

61

GWh/y

MEASURES TO BE FINANCED AND SECTORS

The investment project focuses on renovation of housing to a higher energy standard: isolation, restoration, and it may include integrating renewables (e.g. solar panels) and the heating system as an integral part of the energy system of residential and public buildings, or buildings for small businesses.

TARGETED SECTORS

Building integrated renewables, Residential building, Innovative energy infrastructure

MUNICIPALITY

Waalwijk



INVESTMENT SIZE

69

MILLION €

RENEWABLE ENERGIES

83

GWh/y

ENERGY SAVINGS

12

GWh/y

MEASURES TO BE FINANCED AND SECTORS

The investment concept aims to develop the Smart port Waalwijk including EV shipping, EV trucking, charging stations, battery storage and sustainable terminal.

TARGETED SECTORS

Building integrated renewables, Sustainable urban mobility, Innovative energy infrastructure, Smart Grids

Poland

MUNICIPALITY

Piaseczno



INVESTMENT SIZE

13

MILLION €

RENEWABLE ENERGIES

53

GWh/y

ENERGY SAVINGS

30

GWh/y

MEASURES TO BE FINANCED AND SECTORS

Construction of an energy complex in Piaseczno including the construction of an ecological heat and power plant and expansion of the heating network with the connection of new customers. In the planned combined heat and power plant, heat and electricity will be produced from several sources: a heat pump collecting heat from treated sewage, cogeneration based on biogas obtained from a biogas plant for biodegradable waste and sewage sludge, and a biomass boiler.

TARGETED SECTORS

Building integrated renewables, Residential buildings, District heating



Poland

MUNICIPALITY

Sztum



INVESTMENT SIZE

11

MILLION €

RENEWABLE ENERGIES

1.8

GWh/y

ENERGY SAVINGS

2.1

GWh/y

MEASURES TO BE FINANCED AND SECTORS

The included measures are: sewage treatment plant-RES powered, new energy sources (wind, solar) ensuring coverage of energy needs for transport, water supply and sewage networks (minimum of 1.83 GWh/y), energy storage – battery (>1MWh), use of water & sewage networks as an energy storage, thermal modernization of buildings, coal to heat pumps and old cars to e-vehicles.

TARGETED SECTORS

Public building, Building integrated renewables, Innovative energy infrastructure, Sustainable Urban mobility

Portugal

MUNICIPALITY

Cascais



INVESTMENT SIZE

250

MILLION €

RENEWABLE ENERGIES

213

GWh/y

MEASURES TO BE FINANCED AND SECTORS

The intended measures focus on installing 184 MW of photovoltaic solar energy representing a total generation of 213 GWh per year or 24% of the total electricity consumption within the municipality. With a decentralized energy production and consumption based on self-sufficiency (when possible), the development of innovative smart grids is also considered.

TARGETED SECTORS

Others (renewable, solar energy)

Spain

MUNICIPALITY

Olot (Girona)



INVESTMENT SIZE

106

MILLION €

RENEWABLE ENERGIES

2.4

GWh/y

ENERGY SAVINGS

28

GWh/y

MEASURES TO BE FINANCED AND SECTORS

Measures involve substantial building renovation to achieve significant energy efficiency (EE) improvements with a user centred approach sensitive to user motivations (which tend to focus more on health and wellbeing than on EE).

TARGETED SECTORS

Building integrated renewables, Residential buildings



Spain

MUNICIPALITY

Malaga



INVESTMENT SIZE

34

MILLION €

RENEWABLE ENERGIES

54

GWh/y

Development and implementation of photovoltaic solar parks on municipal land which use the Power Purchase Agreement model for virtual self-consumption.

TARGETED SECTORS

Building integrated renewables

United Kingdom

MUNICIPALITY

Coventry



INVESTMENT SIZE

235

MILLION €

RENEWABLE ENERGIES

302

GWh/y

ENERGY SAVINGS

1.3

GWh/y

MEASURES TO BE FINANCED AND SECTORS

The investment concept focuses on the creation of smart solar PV integrated electric charging hubs to support wider adoption of electrified vehicle fleets at least cost. Enable high-capacity charging infrastructure by using of local generation and battery storage systems.

TARGETED SECTORS

Public Buildings, Building integrated renewables, Sustainable urban mobility, Innovative energy infrastructure.

MUNICIPALITY

Leeds



INVESTMENT SIZE

112

MILLION €

RENEWABLE ENERGIES

0.5

GWh/y

ENERGY SAVINGS

187

GWh/y

MEASURES TO BE FINANCED AND SECTORS

The measures assessed in the net zero roadmap for public and commercial buildings include building integrated renewables (solar PV, heat pumps) and energy efficiency measures relating to heating, cooling and lighting.

TARGETED SECTORS

Public Buildings, Building integrated renewables, District heating, Others.



United Kingdom

MUNICIPALITY

**Royal Borough of
Windsor and
Maidenhead**

INVESTMENT SIZE

55
MILLION €

RENEWABLE ENERGIES

42
GWh/y

ENERGY SAVINGS

5.2
GWh/y



MEASURES TO BE FINANCED AND SECTORS

The intended technology measures include: district heat networks for 2000 new homes, installation of integrated Solar PV/thermal (GSHP/ASHP package) on residential buildings using heating oil, energy efficiency (solid/cavity wall insulation, loft insulation etc.) on domestic households, renewable energy generation on domestic buildings, by solar installs (PV and/or thermal).

TARGETED SECTORS

Public Buildings, Building integrated renewables, Residential buildings, District heating.



