

ANNEX 5. SUMMARY OF THE MESURES FOR THE LONG-TERM PROGRAMS TO PROMOTE THE USE OF ENERGY FROM RENEWABLE SOURCES AND BIO-FUELS AND FOR ENERGY EFFICIENCY

No.	Measure	Term	Expected effect	Required budget	Responsible / support units
C.1 Legal-administrative and management framework for climate policy					
C.1.5	Introduction of a requirement for all new municipal buildings to be built up to the "nearly zero energy building" level	2022	EE: 0,5 GWh/year RES: 0,2 GWh/year Emissions: 0,1 thousandtCO _{2e} /year	BGN 8 thousand for development	Public Construction Division
C.1.9	Creation of procedures, rules and model for the construction of heat pump installations that utilize the heat of shallow waters, geothermal energy and the energy of the sewerage systems wastewater	2022	See measure C.3.3	BGN 50 thousand	Architecture and Urban Planning Division
C.1.10	Creation of rules and a model of public-private partnership to ensure the wider penetration of RES in the municipal building stock	2022	The effect is achieved together with measure C.1.8 of the SECAP (see measure C.1.8)	BGN 18 thousand	Climate, Energy and Air Directorate / Public Construction Division / Department of Architecture and Urban Planning Division
C.2 Improvement of the climate change mitigation activities management					
C.2.1	Creation of spatial map of RES sites by type of technology	2023	The effect is achieved together with measure C.1.8 of the SECAP (see measure C.1.8)	BGN 50 thousand	Climate, Energy and Air Directorate/ OP „Sofiaplan“
C.2.2	Practical guide preparation related to the regulatory and other requirements and principles for the establishment of renewable energy communities	2022	The effect is achieved together with measure C.1.8 of the SECAP (see measure C.1.8)	BGN 30 thousand	Climate, Energy and Air Directorate
C.2.3	Establishment of a unified register for the energy performance of the new buildings on the territory of Sofia Municipality, including the production of energy from renewable sources	2022	Existence of a rich database for assessments and analyzes related to energy efficiency, the use of energy from renewable sources and greenhouse gas emissions in the building sector	BGN 30 thousand	Architecture and Urban Planning Division / District administrations

No.	Measure	Term	Expected effect	Required budget	Responsible / support units
C.3 Investment measures to reduce the green gas emissions and/or to increase the share of renewable energy used					
C.3.3	Gradual certification and energy renovation of the municipal buildings to the highest cost- effective level	2022– 2030	EE: 33 GWh/year RES: 8,7 GWh/year Emissions: 7,2 thousand tCO _{2e} /year	BGN 60 mil.	Public Construction Division / District administrations / Climate, Energy and Air Directorate
C.3.4	Implementation of renewable energy installations in already renovated municipal buildings	2021 – 2030	EE: 0,9 GWh/year RES: 0,9 MWh/year Emissions: 0,4 thousand tCO _{2e} /year	BGN 1 mil.	Public Construction Division / District administrations / Climate, Energy and Air Directorate
C.3.5	Introduction of a system for monitoring the energy and water consumption, including that from renewable energy sources and street lighting	2022 – 2030	Existence of a rich database for assessments and analyzes related to energy efficiency, the use of energy from renewable sources and greenhouse gas emissions in the building sector EE: 3 GWh/year RES: 0,5 MWh/year Emissions: 1,2 thousand tCO _{2e} /year	Gradual financing – BGN 60 thousand initially for the system and the buildings in which there are already installations and for pilot buildings; BGN 2.4 million for the creation of a platform for digitalization and monitoring of buildings, providing for the gradual expansion of the scope and the buildings connected to the system	Information Technology Directorate / Public Construction Division / District administrations / Climate, Energy and Air Directorate
C.3.6	Implementation of pilot and demonstration projects for the construction of zero-energy and plus energy buildings	2027-2030	EE: 0,3 GWh/year RES: 0,3 GWh/year Emissions: 0,1 thousand tCO _{2e} /year	BGN 5 mil.	Public Construction Division / District administrations / Climate, Energy and Air Directorate
C.3.8	Gradual replacement of the fleet of the interdepartmental transport with electric ones	2021 – 2030	EE: 0,4 GWh/year RES: See measure C.1.2 Emissions: 0,1 thousand tCO _{2e} /year	BGN 3 mil.	Transport and Urban Mobility Division / District administrations / Municipal enterprises / Municipal companies /

No.	Measure	Term	Expected effect	Required budget	Responsible / support units
					Climate, Energy and Air Directorate
C.3.9	Gradual replacement of the street lighting fixtures with LED ones	2021 – 2030	EE: 12 GWh/year Emissions: 5,4 thousand tCO _{2e} /year	BGN 30 mil.	Transport and Urban Mobility Division
C.3.10	Gradual replacement of the liquid fuel-fired boilers with heat pump or gas/pellets boilers	2021 – 2030	EE: 1,6 GWh/year RES: 1,6 GWh/year Emissions: 0,4 thousand tCO _{2e} /year	BGN 2 mil.	Public Construction Division
		Total:	EE: 50,5 GWh/year RES: 12,2 GWh/year Emissions: 14,9 thousand tCO_{2e}/year	BGN 103,586 mln. For the period till 2030	

** All envisaged financial sources in the for Sustainable Energy and Climate Action Plan of Sofia Municipality 2021-2030 can be updated and changed after the approval of the programs financed by the European funds, the Recovery and Resilience Plan of the Republic of Bulgaria and other financial mechanisms.*