



LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES



Climate Proofing Strovolos Municipality Participation in the programme LIFE URBANPROOF

Climate Change Adaptation Measures Adaptation Strategy 2020-2030



Eleni Andreou, Environmental Development Officer
Strovolos Municipality



LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES

Adaptation Measures implemented- Green Infrastructure in Strovolos Municipality

- The green area infrastructure in Strovolos is 1909 square meters and has a perimeter of 245 meters.
- The plants used are harmonized in the natural environment of the area .The plants selected have reduced irrigation needs and drought-resistant water requirements.
- The planting techniques that were used aim on water retention at the level of plant rhizosphere.





LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES



Green area at Georgiou Iona Street





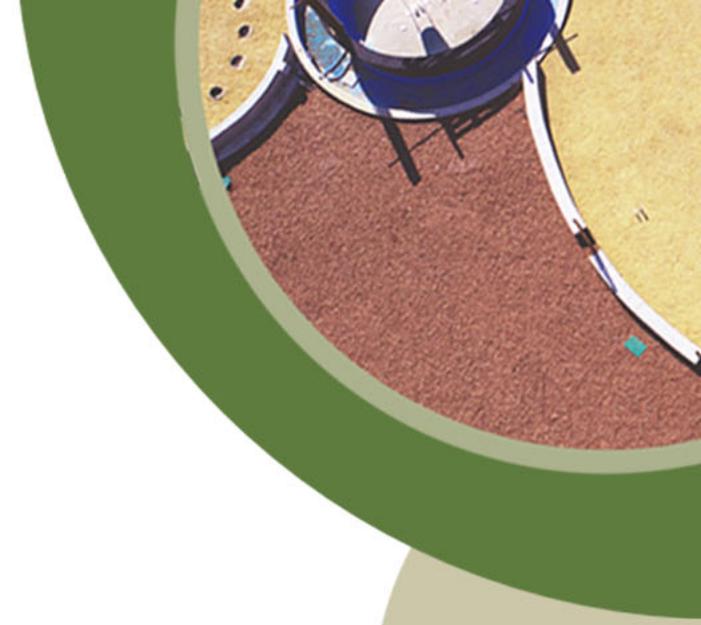
LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES

Adaptation Measures- Green Area

All pathways coatings are covered with water-permeable materials.

For the irrigation needs of the plot a drilling has been completed and the water was analyzed positive for suitability for irrigation purposes.

The plot includes a small green corner for recycling so materials gathered can be reused for educational purposes .





LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES

Adaptation Measures- Green Area



The creation of the plot aims to contribute in on the field student learning as it will be promoted for visits from schools .

Also the creation of a green roof in a shelter type construction is included in the master plan but it will promoted later on due to the high budget cost.

The uses that were included in the green space were proportional to the available budget and further constructions will be promoted at a later stage.





LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES

Adaptation Measures- Green Area

Special sensors were installed for the recording of meteorological data.

The sensors are connected to the Uranproof Toolkit which was developed through the Life Urbanproof programme by NTUA and NOA.

In the future we are planning to install more Sensors in municipal parks in order to collect a of data and have a clearer image of the Effects of climate change on our Municipality.





LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES

Urbanproof Toolkit

Stage 1:
Information on
climate change

Stage 2: Impact
assessment

Stage 3: Exploration
and evaluation of
adaptation options

Stage 4: Development of
the adaptation strategy

Stage 5:
Monitoring and
review

LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES



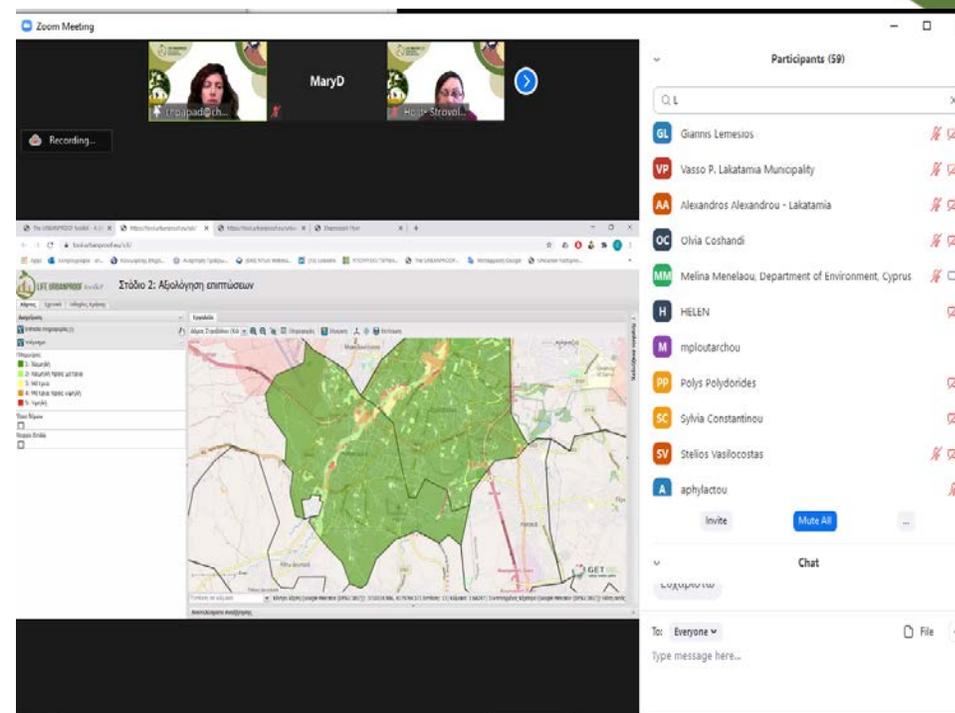


LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES

Demonstration Event UrbanProof Toolkit and Project Deliverables

Strovolos Municipality along with Lakatamia Municipality have organized the Demonstration Event of the UrbanProof toolkit as well as the presentation of the project and its deliverables on the 20th of January 2021 via Zoom, due to COVID 19 restrictions.

You can find the toolkit through the project's website:
<http://urbanproof.eu/el/urbanproof-toolkit>





LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES

Life UrbanProof Video Strovolos Municipality's participation

Let's watch the short version for Strovolos Municipality's contribution to the project its adaptation measures and its adaptation strategy, as yesterday we have shown the participation of Lakatamia Municipality.

You can find a longer version of this video in our Youtube channel:

https://www.youtube.com/channel/UCZhwfz4WyM_Yew4zrt3GPIA





LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES

Adaptation Strategy

Green and sustainable development is a fundamental objective of the Municipality of Strovolos to create an attractive and prosperous city for the benefit of all citizens.

Driven by to this, the Municipality has responded to the invitation of the international initiative of the Covenant of Mayors, to undertake action to address and adapt to climate change drawing up a long-term Sustainable Action Plan Energy and Climate.





LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES

Adaptation Strategy

This action plan includes measures and actions in order to achieve the European objective to combat climate change.

For the development of the Municipality's adaptation strategy a Sustainable Action Plan of Energy and Climate was prepared during the program with the support of Cyprus Energy Agency.



Cyprus
Energy
Agency



LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES

Adaptation Strategy

The Municipality of Strovolos presented its Adaptation Strategy to Mayors from other Municipalities of Cyprus, members of staff, the Department of Environment, the Commissioner of Environment, various other stakeholders and the public. After the public consultation, the Adaptation Strategy was submitted to Strovolos Municipal Council for approval.



Participants (21)

- Strovolos Municipality (Host, me)
- Charis Kordatais (SEA)
- Phytozia Hadjipapa
- WED - Ευρωπαϊκή Κοινότητα
- Atvudika Theodoraki
- ANNA PANTOROU
- Athena Lefteridou
- Athena Giannaki
- Christodoulos Kiriaki
- Costas Petrou
- DOE_EView
- saarofrou
- Delberios Loizou (Nicosia Devel...)
- Iyriakon tsakalis
- Louisa Zhelevo (Cyprus Energy A...
- Marina Kyriakou CEA
- tsoukalis
- Myrto Skouroupatli (she/her)
- Parayotis Kostas
- user42
- ΠΑΝΑΓΙΩΤΗΣ ΠΑΥΛΟΥ



LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES

Adaptation Strategy

The Municipal Council approved the Adaptation Plan on the 12th of January 2021 and it was later submitted to the Covenant of Mayors on the 22nd of February 2021 and was concluded on the 8th of March.



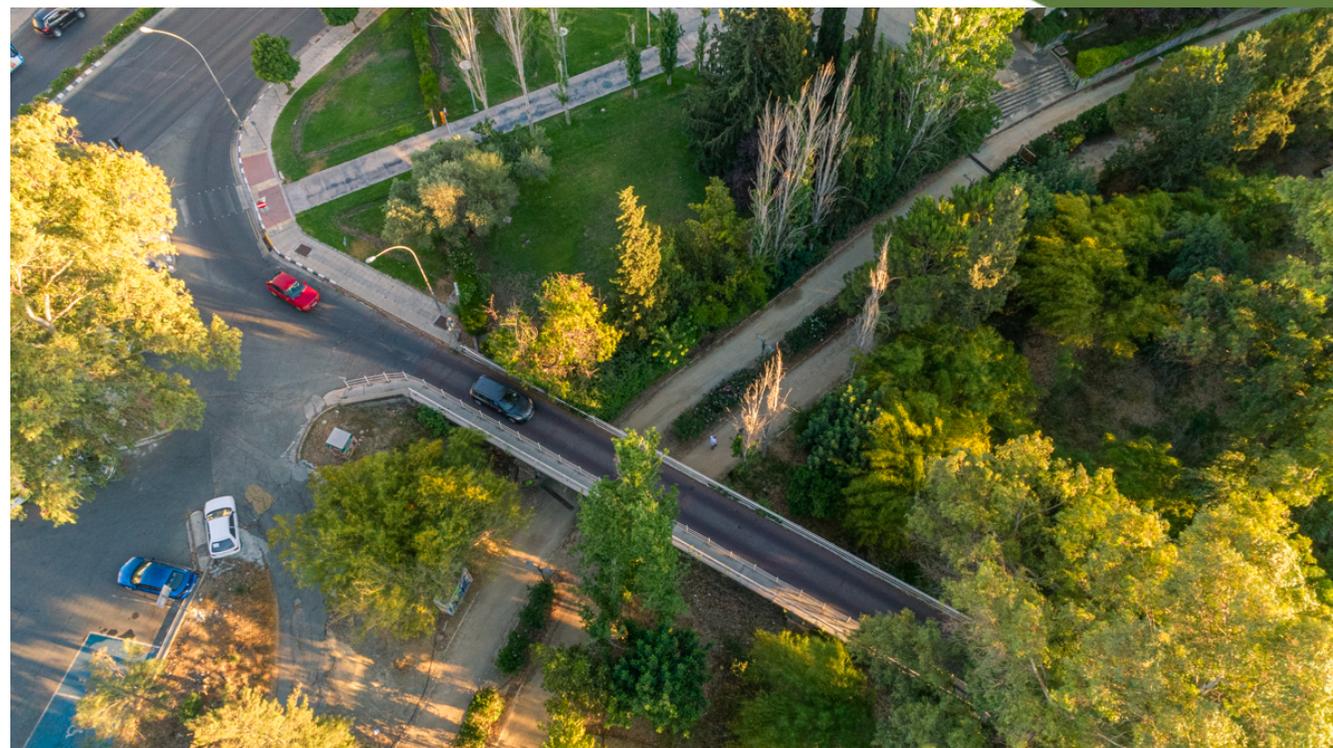


LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES

Adaptation Strategy

The proposed adaptation measures for the period 2009-2030 involve, among others:

- education on climate change issues,
- energy upgrading of buildings,
- creation of green roofs,
- promotion of bioclimatic design of buildings,





LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES

Adaptation Strategy

The proposed adaptation measures for the period 2009-2030 involve, among others:

- education on climate change issues,
- energy upgrading of buildings,
- creation of green roofs,
- promotion of bioclimatic design of buildings,





LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES

Adaptation Strategy

The proposed adaptation measures for the period 2009-2030 involve, among others:

- promotion of sustainable mobility through the use of public transport and correct urban planning to ease traffic congestion within the urban web
- installation of photovoltaic panels on municipal buildings
- rational waste management,





LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES

Adaptation Strategy

The proposed adaptation measures for the period 2009-2030 involve, among others:

- creation and maintenance of parks and green areas,
- protection and promotion of biodiversity,
- implementation of green conventions and circular economy





LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES

Adaptation Strategy

The proposed adaptation measures for the period 2009-2030 involve, among others:

- education on climate change issues,
- energy upgrading of buildings,
- creation of green roofs,
- promotion of bioclimatic design of buildings

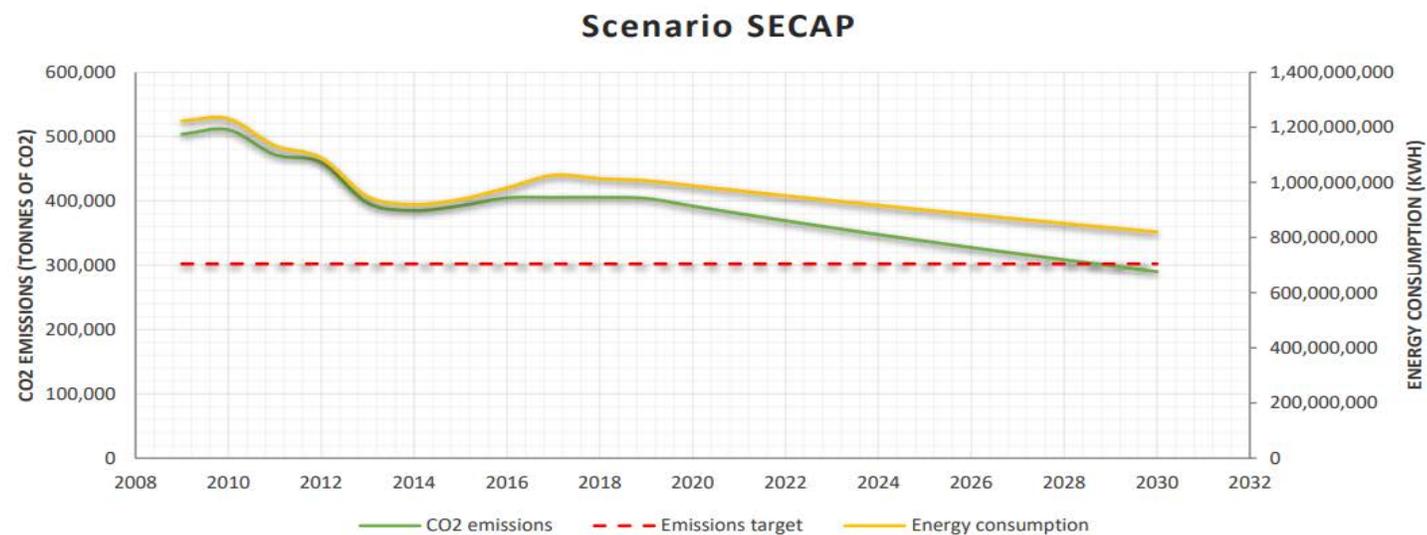




Adaptation Strategy

Graphic illustration of SECAP scenario

52



Εικόνα 11. Γραφική απεικόνιση του σεναρίου Σχεδίου Δράσης Αειφόρου Ενέργειας και Κλίματος.



LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES

Adaptation Strategy

The Municipality of Strovolos, in addition to its commitment to reduce CO2 emissions by 40% by 2030, has set targets for adaptation to climate change such as:

- increase of green within the urban centre by planting trees
- Strengthening the habitat (biodiversity) of Pedieos river that crosses the municipal area
- Upgrading of flora of Pedieos riverbed





LIFE URBANPROOF

CLIMATE PROOFING
URBAN MUNICIPALITIES

Adaptation Strategy

The Municipality of Strovolos, in addition to its commitment to reduce CO2 emissions by 40% by 2030, has set targets for adaptation to climate change such as:

- increase reception areas for the public and vulnerable groups in extreme temperatures
- upgrade of measures against floods
- Saving water by applying smart irrigation systems
- Creation of thematic parks promoting biodiversity/ exp for Pollinators





LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES

Adaptation Strategy

The Municipality of Strovolos, in addition to its commitment to reduce CO2 emissions by 40% by 2030, has set targets for adaptation to climate change such as:

- Informational workshops on climate change and how it affects health.
- installation of meteorological stations (temperature, precipitation, PMs) for creating a database and recording sensors for flood awareness





LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES

Adaptation Strategy

Financialization of adaptation measures included in Strategy

The containment of expenditure in the individual sectors adaptation to climate change, the mobilisation of private initiative but also the use of national and European funding, are expected to frame the Adjustment strategy with the necessary financial resources that will be needed to smooth implementation of individual actions.





LIFE URBANPROOF
CLIMATE PROOFING
URBAN MUNICIPALITIES

Thank you!



Eleni Andreou
Environmental Development Officer, Strovolos Municipality
eandreou@strovolos.org.cy