Lefkosia towards low carbon future
Sustainable Energy Action Plan





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Σύμφωνο των Δημάρχων
Υπέρ της Τοπικής Βιώσιμης Ενέργειας

Cyprus Energy Agency

SEAP+

The Sustainable Energy Action Plan (SEAP) of Lefkosia Municipality

Introduction

The Cyprus Energy Agency as a participating partner in the SEAP+ project, has invited the Municipality of Lefkosia to demonstrate their political commitment by signing the "Covenant of Mayors"; agreement in order to achieve the EU sustainability targets for 2020. The SEAP of Lefkosia is now completed with the contribution of the Cyprus Energy Agency and the Energy Team of the Municipality of Lefkosia. The final version of the SEAP deliberated by the Municipal Council of Lefkosia the 02/01/2014. This SEAP includes ambitious and pioneer measures for the active involvement of Lefkosia citizens as well as the implementation of projects and development of infrastructures (Tram, EV charging points, Photovoltaic, zero energy buildings etc.) in order to to overcome the goal of reducing CO_2 emissions by 33% by 2020.

Lefkosia Municipality in the Covenant of Mayors

The Mayor Mr. Konstantinos Giorkatzis, by representing the Municipality of Lefkosia, approved the invitation of Cyprus Energy Agency to join the SEAP+ project and signed the Covenant of Mayors the 17th of May 2012.

Lefkosia has 55,014 citizens and 22,833 households

Baseline Year



The year 2009 was designated as the year of referencing/recording energy consumption and CO_2 emissions in the Municipality's territory. According to actual consumption data collected by the Electricity Authority of Cyprus (utility), the oil companies, the Statistical Service of Cyprus, etc, the total energy consumption in 2009 in Lefkosia was 1,207,023 MWh. The largest consumer of energy in the municipality is transport with 586,597 MWh, followed by the tertiary sector with 309,130 MWh and households with 270,567 MWh. The CO_2 emissions in 2009 attributable to the overall energy consumption in the municipality are 529,350 tons.

Energy Modeling



For the forecast of CO_2 emissions in the period 2010 to 2020, the scenario of expected evolution was established where it was estimated that without taking any measures emissions will amount to 450,226 tons (the emissions calculated lower than the 2009 emissions as a result of the estimated contribution of the Governmental Strategies).

SEAP Actions

The proposed measures are split into the following categories:

Description	Number
BUILDINGS, EQUIPMENT / FACILITIES & INDUSTRIES:	16
TRANSPORTS	14
LOCAL ELECTRICITY PRODUCTION	1
LAND USE PLANNING	8
PUBLIC PROCUREMENT AND STAKEHOLDERS	3
WORKING WITH THE CITIZENS AND STAKEHOLDERS	11

The estimated annual emissions reduction for 2020 by applying the above measures amounts to 98,436 tons. The impact of the reduction to the Business As Usual Scenario will result to a reduced amount of local CO_2 emissions of 351,790 tones. That is, **33%** lower with respect to those in the reference year 2009.



SEAP Budget and Funding

The budget of the Action Plan for the period 2013 to 2020 amounts to **€6,837,800**. Funding for the implementation of the Energy Action Plan is expected to be taken from the following resources:

- Municipality budget
- Municipal green tax
- Savings that will result from energy reduction measures in buildings, vehicles and street lighting in the Municipality.
- Revenues originating from Municipality investments on Renewable Energy technologies.
- Funding from the Grant Scheme of the Ministry of Energy, Commerce, Industry and Tourism for the promotion of Renewable Energy and Energy Conservation
- Potential funding from the structural funds.
- Potential funding from the Fund created for Emissions Trading Scheme.
- Potential funding from other European programs.
- Public-Private partnership
- Projects implementation with the contribution of Energy Services Companies (ESCO)

The proposed share of each funding source to the SEAP is:

Funding source	Percentage

Municipal budget	17%
SEAP	23%
National Funds	22%
European Funds	12%
EPC Contracts with ESCO	26%

The Sustainable Energy Action Plan of Lefkosia Municipality carried out by the Cyprus Energy Agencysupported from the project SEAP PLUS co-financed 75% by the European Commission through the Intelligent Energy Europe programme

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