

Nicosia Municipality



THE LAST DIVIDED CAPITAL IN EUROPE



# Nicosia municipality



Papacostas Artemis, Executive Electrical Engineer,  
Energy Operator  
Bolzano, Italy, May 2015



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# Nicosia - Cyprus







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# Savorgans projects



→ Nicosia, Capital of Cyprus

Palmanova, in northeastern Italy →





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# City Facts

- ❖ The capital of Cyprus and largest city
- ❖ Divided since the Turkish invasion in 1974
- ❖ Population 220.000 (Metropolitan Area)
- ❖ Subdivided into 7 municipalities -Metropolitan authority is the Nicosia Municipality with a population of 50.000
- ❖ Major economic activity in the center of Nicosia, although smaller commercial centers have also developed
- ❖ Mild winter (14°C - 18°C )/ Hot summer (35°C -38°C )
- ❖ Relatively low rainfall (about 400mm/year)

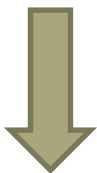


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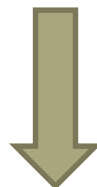
# Nicosia's Guidelines

Mobility Plan

Sustainable Energy Action Plan



Nicosia's Mobility Plan includes innovative actions such as TRAM, buses etc



In 2012, Nicosia Municipality signed the Covenant of Mayors and is committed to reduce CO<sub>2</sub> emissions on its territory by at least 20% by 2020!





# ENERGY CONSUMPTION NEEDS

- ❖ Public lighting (includes street lighting, municipal gardens, car parks, traffic lights): Approximately 8.000 lamps light up the streets, municipal gardens, car parks and squares
- ❖ Municipal Office/Building energy requirements: An approximate yearly cost of €410.000 is spent for energy needs of all municipal buildings (offices, exhibition/cultural centers, theaters, libraries, food markets, etc )
- ❖ Fuel needs for municipal vehicles/machinery: 112 cars, 75 motorbikes  
Yearly total cost of fuel is about €380.000
- ❖ **A yearly total cost of almost two million euro (€2.000.000) is spent for energy**



# Our goals

- ❖ Energy upgrade of Municipal premises
- ❖ Upgrade of street lighting energy efficiency, replacement of HPS with LED
- ❖ Energy-saving traffic lights, apply new LED technology
- ❖ Energy saving actions in the open green spaces and public spaces
- ❖ Energy-saving festive decoration
- ❖ Gradual replacement of fleet vehicles with more efficient low-emission vehicles
- ❖ Establishment of Control and Management of Municipal vehicles office



# Our goals

- ❖ Adoption of bicycle use from the Municipal Police
- ❖ Installation of photovoltaic systems in Municipal buildings and covered parking areas (150 KW)
- ❖ Utilisation of green waste
- ❖ Adoption of green procurement
- ❖ Definition of environmental criteria for products and services. Parameter as positive evaluation of tenders
- ❖ Define energy efficiency criteria for products and services. Parameter positive evaluation of tenders
- ❖ Development of local authorities cooperation
- ❖ Participation in co-financed European projects





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# Sustainable projects

**Eleytherias square**



**New Municipality**



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# Islandwide facts

- ❖ Solar Power Systems on Public Buildings 0.74 MW and Solar Power Systems 12,46 MW
- ❖ Total power generated from Renewable Energy Sources, 167,133 MW (islandwide).
- ❖ Aeolian Power Systems 146,70 MW
- ❖ Biomass/Biogas Power systems 7,96 MW





# Difficulties

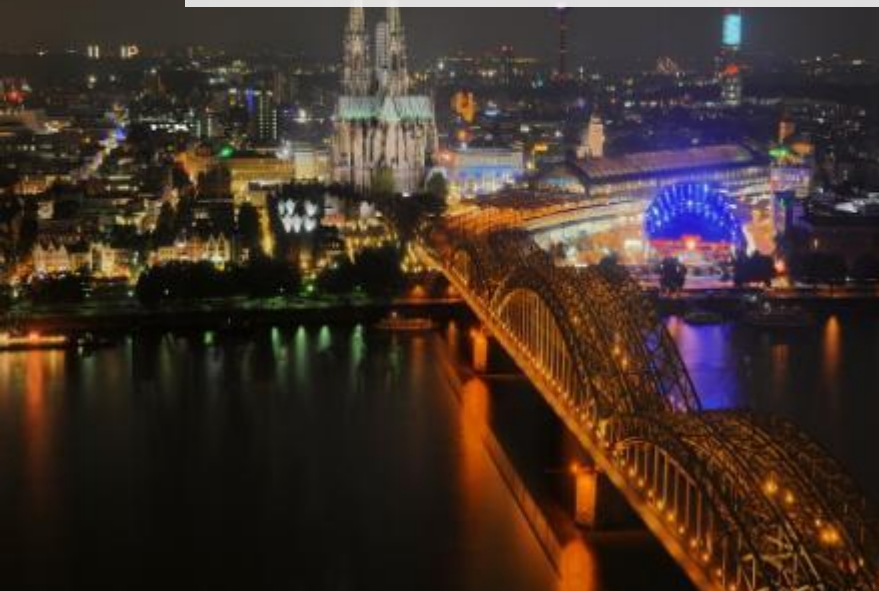
- ❖ Legal framework and support tools for the increase of energy efficiency in buildings in Cyprus and under the new support scheme “Save and Renovate” for households, businesses and public bodies
- ❖ Ways in which Local Authorities can take advantage of the "Energy Performance Contracting", with "energy service companies", in order to finance projects and interventions in public buildings and services
- ❖ Educate people for energy saving
- ❖ Establishment of Municipality Green Fund
- ❖ Educate drivers for eco-driving



# Smart Cities and Communities

**Each city is unique ...**

**... but there are common challenges!**





Thank you!