



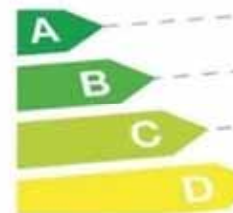
12 OCTOBER 2011  
Nicosia, Cyprus

# Involvement of local stakeholders in the climate action-Cyprus case

Anthi Charalambous  
Director

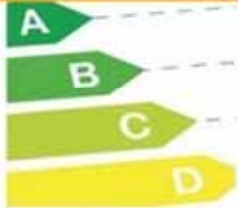


6<sup>th</sup> Workshop of the Project 1G-MED08-515





# 1. The Cyprus Energy Agency



## Official Establishment:

9/2/2009

## Co-Financing:

- ✓ 75% by the European Commission through the “Intelligent Energy for Europe” programme (2007-2013)
- ✓ 25% by the Cyprus Union of Communities

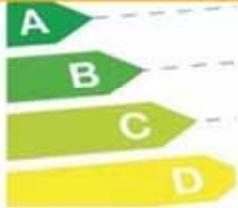


INTELLIGENT  
ENERGY  
EUROPE  
FOR A SUSTAINABLE FUTURE





# 1. The Cyprus Energy Agency



Specific objectives:



Promotion of  
Renewables



Promotion of  
Energy Efficiency

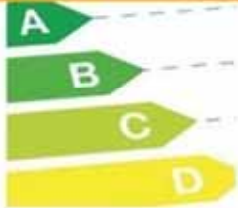


Promotion of  
Sustainable transport &  
mobility





# 1. The Cyprus Energy Agency



**Location:**  
Cyprus, Lefkosia

20 Lefkonos Str.  
2064, Strovolos





# 1. The Cyprus Energy Agency



## The CEA team:



**Anthi Charalambous**

Director

[Anthi.Charalambous@cea.org.cy](mailto:Anthi.Charalambous@cea.org.cy)



**Savvas Vlachos**  
Energy Specialist

[Savvas.Vlachos@cea.org.cy](mailto:Savvas.Vlachos@cea.org.cy)



**Maria Ioannidou**  
Energy Education

[Maria.ioannidou@cea.org.cy](mailto:Maria.ioannidou@cea.org.cy)



**Harris Kordatos**  
Environmental Protection

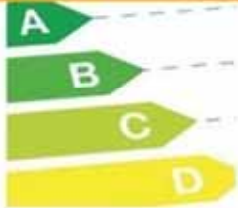
[Harris.Kordatos@cea.org.cy](mailto:Harris.Kordatos@cea.org.cy)



**Orestis Kyriakou**  
Energy Management

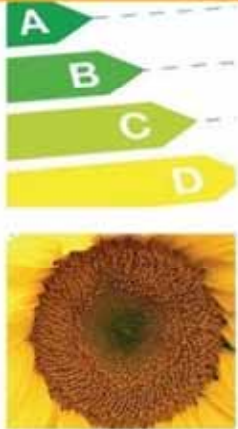
[Orestis.Kyriakou@cea.org.cy](mailto:Orestis.Kyriakou@cea.org.cy)

# Why is climate change important to Cyprus?





# Changes in the mean annual temperature



The mean annual temperature of Cyprus for the period 2001-2008 was increased 0,9 °C in comparison with the period 1981-1990.

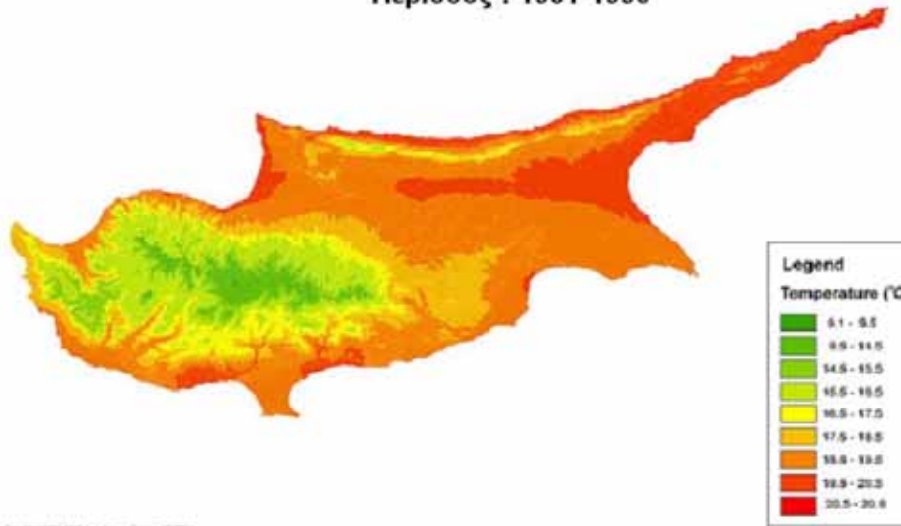


	<i>1981-1990</i>	<i>1991-2000</i>	<i>2001-2008</i>
Minimum mean temperature	<b>9,05</b>	<b>9,30</b>	<b>9,92</b>
Mean	<b>18,15</b>	<b>18,63</b>	<b>19,02</b>
Maximum mean temperature	<b>20,84</b>	<b>21,04</b>	<b>21,57</b>

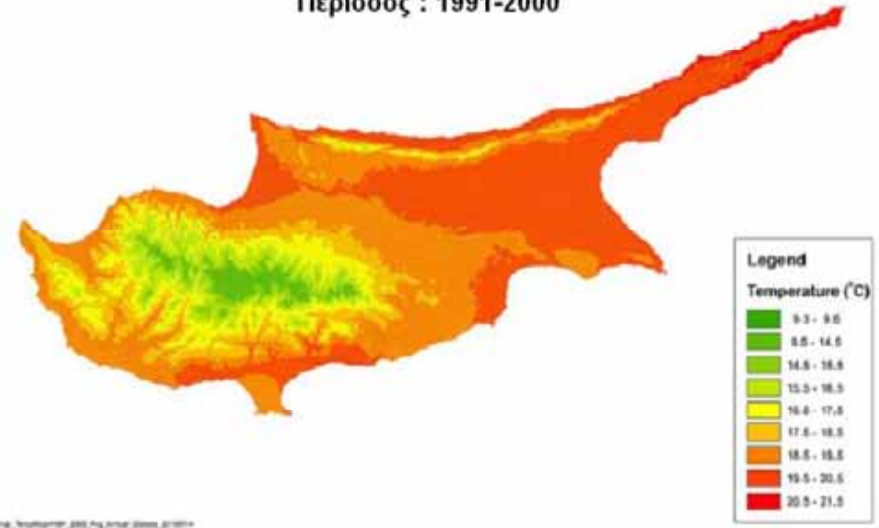


Πηγή: Αναθεωρημένη Στρατηγική για την Αειφόρο Ανάπτυξη 2010

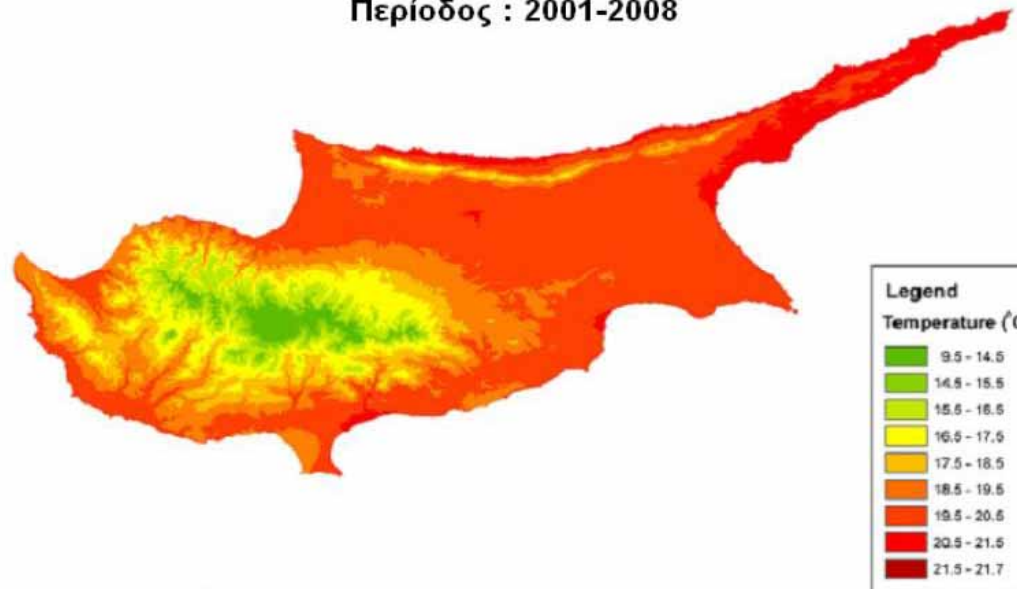
ΜΕΣΗ ΕΤΗΣΙΑ ΘΕΡΜΟΚΡΑΣΙΑ (C)  
Περίοδος : 1981-1990



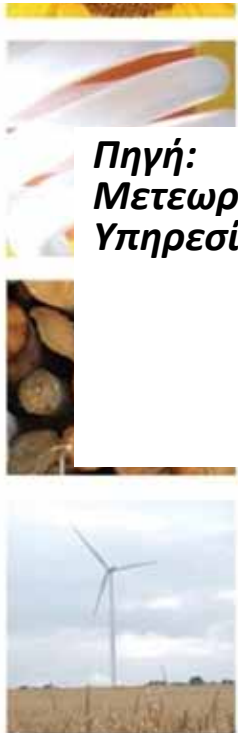
ΜΕΣΗ ΕΤΗΣΙΑ ΘΕΡΜΟΚΡΑΣΙΑ (C)  
Περίοδος : 1991-2000



ΜΕΣΗ ΕΤΗΣΙΑ ΘΕΡΜΟΚΡΑΣΙΑ (C)  
Περίοδος : 2001-2008

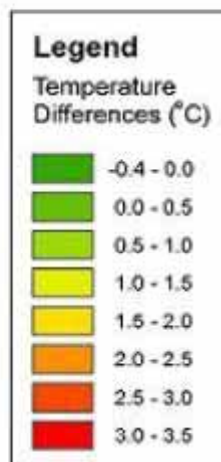


Πηγή:  
Μετεωρολογική  
Υπηρεσία Κύπρου





## ΜΕΣΕΣ ΔΙΑΦΟΡΕΣ ΤΩΝ ΜΕΣΩΝ ΕΤΗΣΙΩΝ ΘΕΡΜΟΚΡΑΣΙΩΝ (C) ΑΝΑΜΕΣΑ ΣΤΙΣ ΠΕΡΙΟΔΟΥΣ 2001-2008 ΚΑΙ 1981-1990



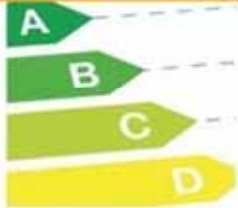
C:\map\_CalculareDifferenceTempMean2001-2008\_1981-1990\_1010012D

Πηγή: Μετεωρολογική Υπηρεσία Κύπρου





# Climate Change CYPRUS



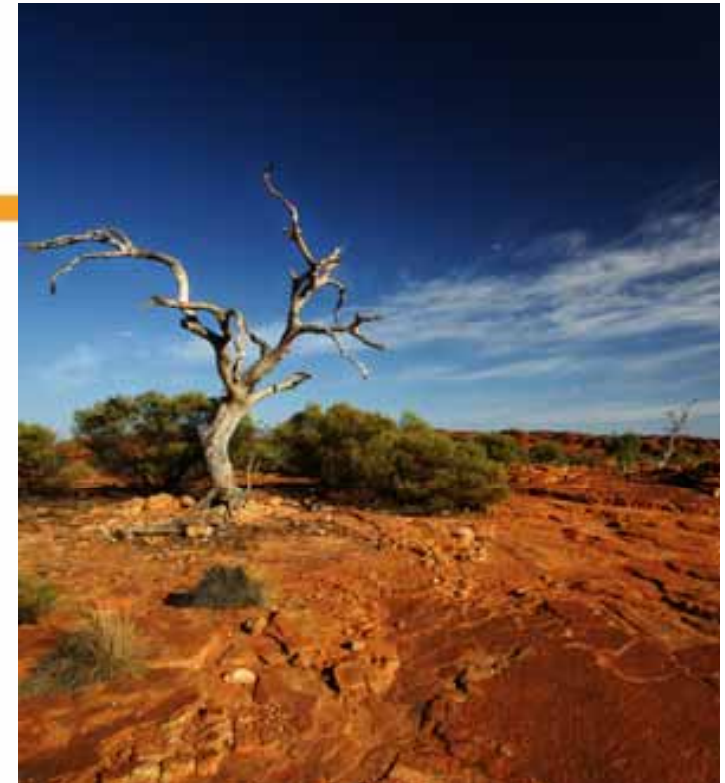
In Cyprus, has been calculated on the basis of predictive models within the next 100 years that the temperature will be increased and the rainfall will be reduced .

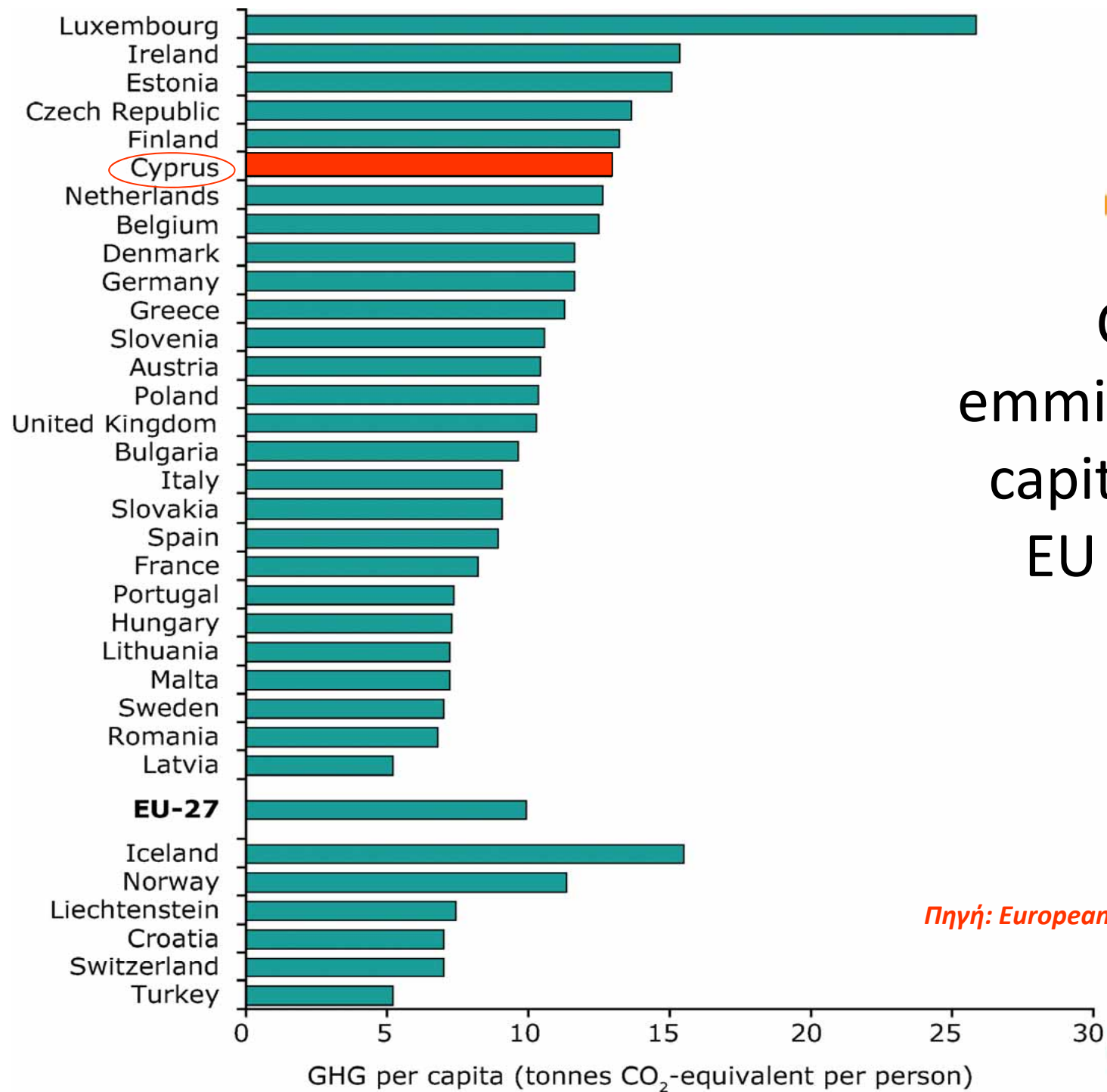
As a result it is expected that many areas of the island will be hit by desertification, the energy needs for cooling will be increased as well as the reliance on desalination as a water source, and the forest quality will be changed.

It is also expected, how would cause other impacts as a result of the above, for example, changes in the structure of the economy, e.g. importance of tourism to the economy and tourism seasons.



*Πηγή: Αναθεωρημένη Στρατηγική για την Αειφόρο Ανάπτυξη 2010*



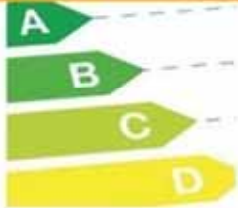


# CO<sub>2</sub> emmission per capita in the EU - 2008

Πηγή: European Environment Agency



# 3. National Targets for 2020- Cyprus



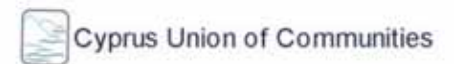
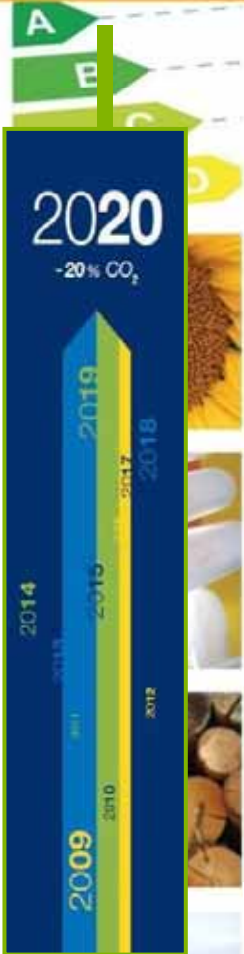
- Directive 28/2009/EC  
Share of RES in Cyprus in 2005 was 2.9%  
**Target for the Share of RES in Cyprus by 2020 is 13%**
- Directive 32/2006/EC  
**10% energy saving target for the period 2008-2016.  
Estimated annual saving of 1%.**
- Reduction of Greenhouse gasses:  
**5% reduction in the non ETS sectors (residential, agriculture etc) in comparison to 2005 levels and 21% reduction by 2020 of the ETS sectors (power industries etc)**



# 4. Covenant of Mayors

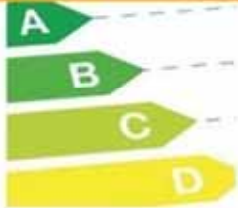


A commitment towards Europe's energy and climate policy





# Commitments of Local Authorities when joining the Covenant of Mayors



- To go beyond the EU's 20% CO2 reduction objective by **2020** through sustainable energy actions on their territories
- Prepare a **Baseline Emission Inventory**
- Set up a **Sustainable Energy Action Plan** and implement it
- Submit regular Implementation **Reports**
- Accept the **scrutiny** by third parties, termination clause
- Involve citizens and other stakeholders: bottom-up, **holistic approach**

# The European institutions endorse the Covenant of Mayors



Europe is at the forefront of the fight against climate change. Through the Covenant of Mayors, the EU has shown the rest of the world that its citizens are united in their commitment to reduce CO2 emissions. Thanks to this pioneering movement, towns and cities across Europe are developing their own grassroots solutions to this most pressing global issue.

*José Manuel Barroso, President of the European Commission*



# The European institutions endorse the Covenant of Mayors



The actions of Covenant signatories can significantly reduce CO2 emissions. By supporting them, Europe can meet the challenges of climate change. For these reasons, I fully support the efforts of the Covenant of Mayors initiative. It is helpful in addressing concerns of citizens.

*Jerzy Buzek, President of the European Parliament*





# The European institutions endorse the Covenant of Mayors



Regional and local authorities have a key role to play in tackling the causes and effects of climate change. The Committee of the Regions gives its full political support to the Covenant of Mayors initiative, in the belief that the local and regional level must take direct action to curb emissions and reduce energy consumption.

*Ramón Luis Valcárcel Siso, First Vice-President of the Committee of the Regions*



# The European institutions endorse the Covenant of Mayors



With more than 2200 cities involved, the Covenant of Mayors has become a key element of the EU sustainable energy policy. Regions and cities are demonstrating with their Sustainable Energy Action Plans that climate change mitigation is one of the best economic recovery strategies

*Günther Oettinger, European Commissioner for Energy*



# Promotion of the “Covenant of Mayors” in Cyprus

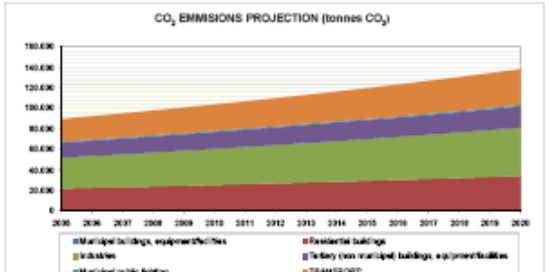
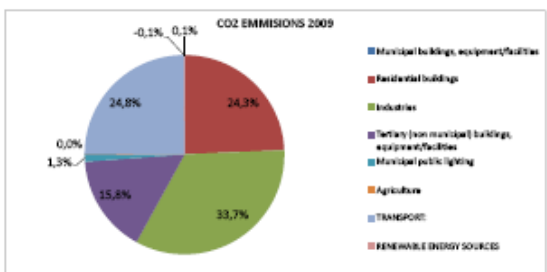


- The Cyprus Energy Agency was appointed to be the executive agency for the promotion of the Covenant of Mayors in Cyprus by the Local Authorities’ Associations in Cyprus

CO2 EMISSIONS

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES</b>	47,814	50,511	51,067	52,048	53,029	54,010	54,991	55,972	56,953	57,934	58,915	59,896
Municipal buildings, equipment/facilities	13,774	14,181	14,588	14,995	15,402	15,809	16,216	16,623	17,030	17,437	17,844	18,251
Residential buildings	17,124	17,531	17,938	18,345	18,752	19,159	19,566	19,973	20,380	20,787	21,194	21,601
Industry	16,916	17,323	17,730	18,137	18,544	18,951	19,358	19,765	20,172	20,579	20,986	21,393
Tertiary (non-municipal) buildings, equipment/facilities	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Municipal public lighting	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
Agriculture	10	10	10	10	10	10	10	10	10	10	10	10
<b>TRANSPORT</b>	22,000	22,000	22,000	22,000	22,000	22,000	22,000	22,000	22,000	22,000	22,000	22,000
Municipal transport	10	10	10	10	10	10	10	10	10	10	10	10
Public transport	10	10	10	10	10	10	10	10	10	10	10	10
Private road motor vehicles & mopeds	10,990	10,980	10,980	10,980	10,980	10,980	10,980	10,980	10,980	10,980	10,980	10,980
<b>RENEWABLE ENERGY SOURCES</b>	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL CO2 EMISSIONS</b>	<b>69,814</b>	<b>72,511</b>	<b>73,067</b>	<b>74,048</b>	<b>75,029</b>	<b>76,010</b>	<b>76,991</b>	<b>77,972</b>	<b>78,953</b>	<b>79,934</b>	<b>80,915</b>	<b>81,896</b>

FINANCED BY	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
State	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Local Authorities	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Private	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%





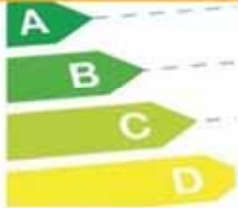
# Promotion of the “Covenant of Mayors” in Cyprus



- The Cyprus Energy Agency
  - Collects the data and prepares the baseline emissions inventory
  - Involves and informs Local Stakeholders
  - Prepares the SEAP
  - Supports Municipalities for the implementation
  - Monitoring
  - Reporting
  - And much more...



# 3. Local Energy Planning in Cyprus

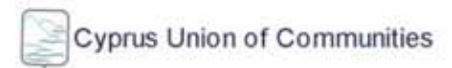


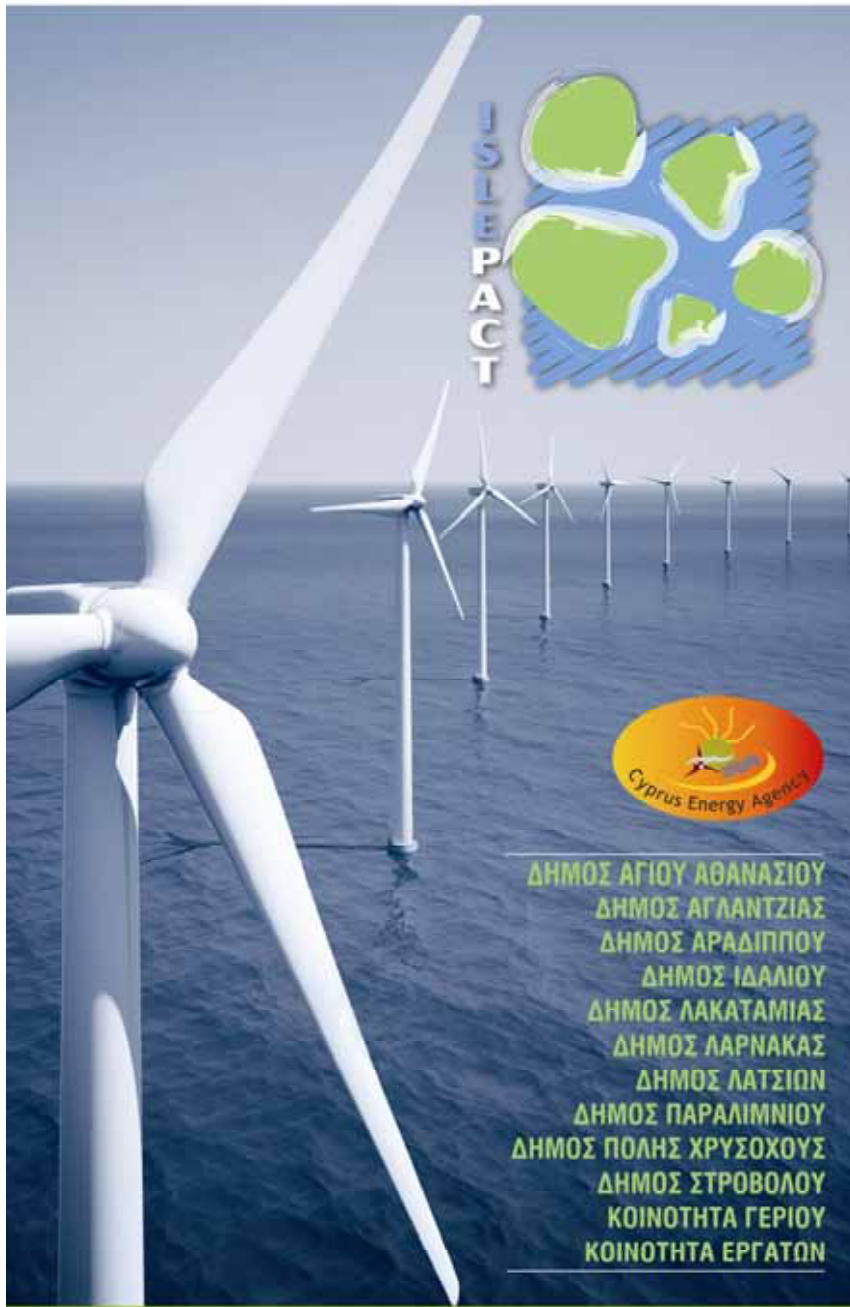
Since 2008 till today...

- **7 Municipalities** (out of 23) have signed the “Covenant of Mayors”

**PLUS...**

- **5 Municipalities** signed the “Pact of Islands” with similar objectives and are in the stage of preparing a SEAP.
- **The Cyprus Energy Agency supports 12 Municipalities and 3 Communities to prepare the inventories, SEAPs and to implement**





[www.islepact.eu](http://www.islepact.eu) 




**Pact of Island signing ceremony,  
Cyprus, 20 January 2011**



**Pact of Island signing ceremony,  
Brussels, 12 April 2011**

Supported by  
**INTELLIGENT ENERGY  
EUROPE** 

 Cyprus Union of Communities

160,000 inh.  $\cong$  25% of the total population



US Dept of State Geographer  
© 2011 Google  
© 2011 Europa Technologies  
Data SIO, NOAA, U.S. Navy, NGA, GEBCO

35°03'55.04" N 33°21'02.21" E elev 311 m

Eye alt 171.84 km

2020

-20% CO<sub>2</sub>



## Creation of adequate administrative structures

### STEP 1: Signature of the Covenant of Mayors

Creation of adequate administrative structures

Baseline Emission Inventory & SEAP development with stakeholders and citizens

1<sup>st</sup> year

### STEP 2: Submission of your SEAP

Implementation of the SEAP

Monitoring and reporting

3<sup>rd</sup> year & beyond

STEP 3: Regular submission of implementation reports (every 2 years)

-20% CO<sub>2</sub> by 2020



2020

-20% CO<sub>2</sub>



## SEAP development with stakeholders

### Key Points

#### Your desired future in 2020



#### Choose freely your methodology

- Include **public and private sectors'** actions
- **Involve local stakeholders & citizens**
- Have it **formally approved by City Council**

2020

-20% CO<sub>2</sub>



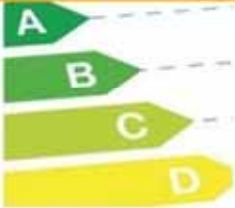
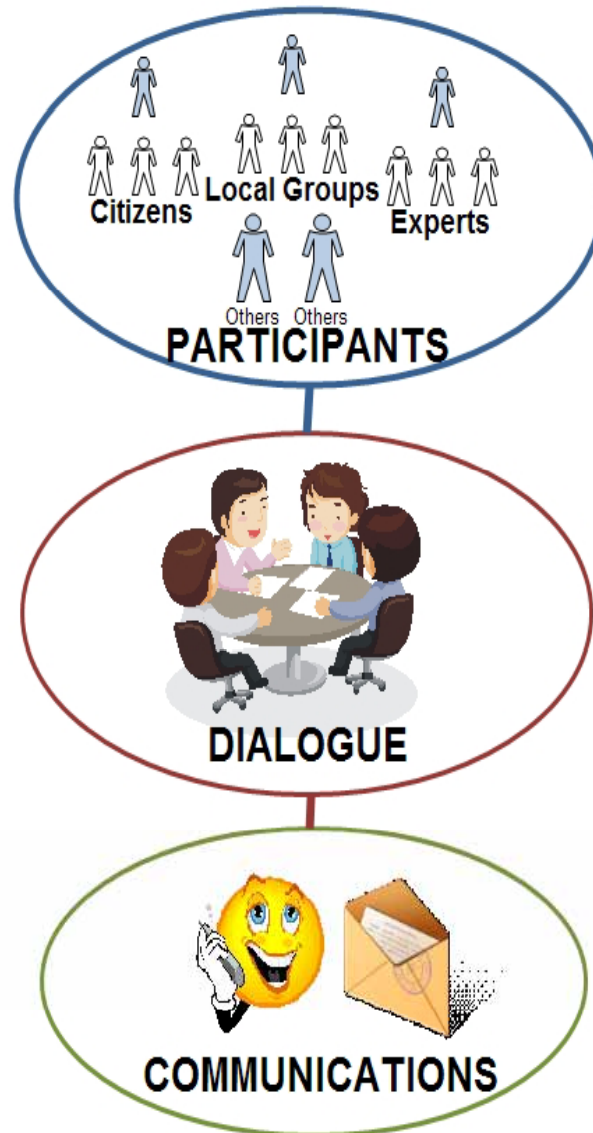
## From the very first step: communicate and collaborate with citizens and local actors!

Organise local energy days!



# Involvement of Local Stakeholders

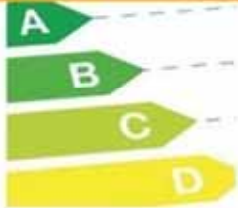
## Participatory Process





# Participatory process

## Step 1. Participants



- Determination of types of stakeholders
- Determination of national experts that can participate in the process
- Involvement of people from academic institutions (governmental agencies, research organizations, universities etc)



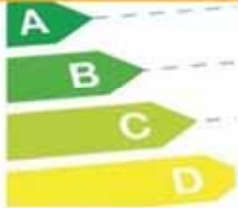
## Establishment of Local Working Group





# Participatory process

## Step 1. Participants Case of CEA

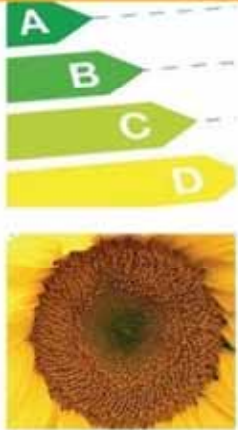


- Ministry of Agriculture, Natural Resources and Environment - Environment Department
- Cyprus Association of Renewable Energy Enterprises
- Cyprus Association of Renewable Energy Sources investors
- Cyprus Chamber of Commerce and Industry
- Cyprus Scientific and Technical Chamber
- Association of Cyprus Banks
- Federation of environmental and ecological organizations of Cyprus
- Cyprus Investment Promotion Agency (CIPA)
- Environment Commissioner
- Terra Cypria
- Cyprus Union of Municipalities
- Cyprus Union of Communities
- Electricity Authority of Cyprus
- Frederick University
- University of Nicosia



# Participatory process

## Step 2. Dialogue

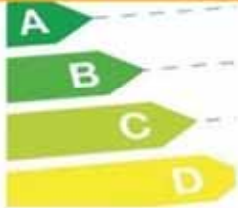


- Organize a stakeholder discussion group



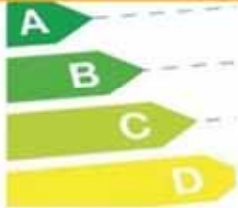
# Participatory process

## Step 2. Dialogue – Site Visits



# Participatory process

## Step 3. Communication



- Establishment of communication protocols and strategy
- When necessary, unscheduled meetings of the LWG take place, or with some of its members
- The members of the LWG also communicate electronically and phone conversations





# Communication - Working with citizens and stakeholders



## Kids Drawing Competitions – Climate Action





# Working with citizens and stakeholders



## Energy Days and events





# Working with citizens and stakeholders

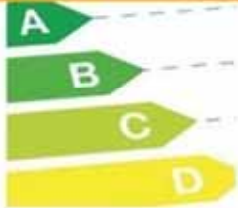


## Energy Days and Competitions





# Working with citizens and stakeholders



## Green Days and Competitions



Το Ενεργειακό Γραφείο Κυπρίων Πολιτών, γιορτάζει την παγκόσμια ημέρα περιβάλλοντος και σας προσκαλεί σε μεγάλη εκδήλωση για τις ανανεώσιμες πηγές ενέργειας και το περιβάλλον, το Σάββατο 18 Ιουνίου, στην Πύλη Αμμοχώστου από τις 10 το πρωί μέχρι τις 6 το απόγευμα.

**Πράσινη Ημέρα**

Είσοδος ελεύθερη.

Πληροφορίες στο τηλέφωνο 22667726

Η εκδήλωση περιλαμβάνει ευχάριστες δραστηριότητες για παιδιά: παιχνίδια, μουσική, τραγούδι, ζωγραφική, διαγωνισμούς και τη θεατρική παράσταση ο Νικολάκης ανακυκλώνεται και εξοικονομεί ενέργεια.

Χορηγός εκδήλωσης:  
Mitsubishi Leaf επί του Όμιλου Πρόνοιας



Χορηγός επικοινωνίας:



Υποστηρικτές:



Αρχιτεκτονική της Ευρωπαϊκής Επιτροπής στην Κύπνο



Αρχή Ηλεκτρισμού Κύπρου



Cyprus Union of Communities



# Working with citizens and stakeholders

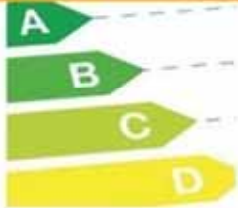


## Energy Days and Competitions





# Working with citizens and stakeholders



## Raising Public Awareness – Discussions with citizens





# Communications- Working with citizens and stakeholders



## Distribution of materials “Climate Change – Learn how you can help”

Η αλλαγή του κλίματος είναι ένα παγκόσμιο πρόβλημα με τρομακτικές συνέπειες για το μέλλον του πλανήτη μας αν δεν δράσουμε τώρα.

Ακόμη και οι μικρές αλλαγές στις καθημερινές μας συνήθειες μπορούν να μειώσουν την κατανάλωση ενέργειας και να συμβάλουν στη μείωση των εκπομπών των αερίων του θερμοκηπίου χωρίς να επηρεαστεί η ποιότητα της ζωής μας.

**Η ΑΛΛΑΓΗ ΤΟΥ ΚΛΙΜΑΤΟΣ ΕΞΑΡΤΑΤΑΙ ΚΑΙ ΑΠΟ ΕΜΑΣ!**  
**ΠΑΙΡΝΟΥΝΕ ΤΗΝ ΚΑΤΑΣΤΑΣΗ ΣΤΑ ΧΕΡΙΑ ΜΑΣ!**



Σχέδιο με θέμα «Αλλαγή Συμπεριφοράς» του Γ. Δημητρίου Στυλίου Πάριση/Αθήνα

Η έκδοση αυτή ετοιμάστηκε σε συνεργασία με το **Ενεργειακό Κέντρο της Περιφέρειας Κρήτης**.



Οδός Λεύκωνος 20, Μαρτύρων Κοστ. 13, Γραφείο 403, 2064 Στρόβολος, Λευκωσία.  
 Τηλέφωνο: 22667716, 22667726  
 Φηλ: 22667736  
 email: info@cea.org.cy  
 website: www.cea.org.cy

Ενεργειακό Γραφείο Κυπρίων Πολιτών

**Η αλλαγή του κλίματος εξαρτάται ΚΑΙ ΑΠΟ ΣΕΝΑ**

Μάθε τι μπορείς να κάνεις για να βοηθήσεις



Ενεργειακό Γραφείο Κυπρίων Πολιτών



# Communication - Working with citizens and stakeholders



## Poster with save energy tips:

**Οι κανόνες του δωματίου μου:**

- 1 Σβήνω τα φώτα πριν φύγω από το δωμάτιο και χρησιμοποιώ οικονομικούς λαμπτήρες!
- 2 Σβήνω την τηλεόραση, τον υπολογιστή και το στερεοφωνικό από την πρίζα και δεν τα αφήνω σε κατάσταση αναμονής!
- 3 Δεν ανοίγω τα παράθυρα όταν το κλιματιστικό είναι αναμμένο και το αφήνω πριν φύγω από το δωμάτιο!
- 4 Χρησιμοποιώ επαναφορτιζόμενες μπαταρίες!

**Βοηθώ και εγώ στην προστασία του πλανήτη μας:**

Υποκατάσταση λαμπτήρων με οικονομικούς  
Εξοικονόμηση ενέργειας  
Αποφυγή αναμονής

**ΤΡΑΠΕΖΑ ΠΕΙΡΑΙΩΣ**  
Το όνειρό σας έχουν δύναμη

Επιχειρησιακό Γραφείο Κύπρου Πάριση

## Poster for offices with save energy tips:

**ΔΙΝΩ ΤΟ ΠΑΡΑΔΕΙΓΜΑ στην εξοικονόμηση ενέργειας**

**Υπολογιστές**  
Στα κτίρια για αξία και τα κτίρια για...  
Αποκλιμακωμένο για φως...  
Αποκλιμακωμένο για φως...  
Αποκλιμακωμένο για φως...

**Φωτισμός**  
Επιλέξτε να φως...  
Αποκλιμακωμένο για φως...  
Αποκλιμακωμένο για φως...

**Εκτύπωση**  
Στα κτίρια για αξία και τα κτίρια για...  
Αποκλιμακωμένο για φως...  
Αποκλιμακωμένο για φως...

**Κλιματισμός Θέρμανση**  
Επιλέξτε να φως...  
Αποκλιμακωμένο για φως...  
Αποκλιμακωμένο για φως...

**Ανοίγματα**  
Επιλέξτε να φως...  
Αποκλιμακωμένο για φως...  
Αποκλιμακωμένο για φως...

**ΜΕΡΕΙ ΟΤΙ... ?**  
Το 45% του κόσμου...  
Αποκλιμακωμένο για φως...  
Αποκλιμακωμένο για φως...

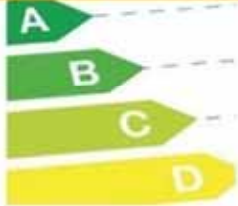
**ΜΑΘΕ ΟΤΙ... !**  
Το 45% του κόσμου...  
Αποκλιμακωμένο για φως...  
Αποκλιμακωμένο για φως...

Επιχειρησιακό Γραφείο Κύπρου Πάριση





# THANK YOU FOR YOUR ATTENTION!



Cyprus Energy Agency

Tel. +357 22667716

+357 22667726

Fax: +357 22667736

[info@cea.org.cy](mailto:info@cea.org.cy)

[www.cea.org.cy](http://www.cea.org.cy)

