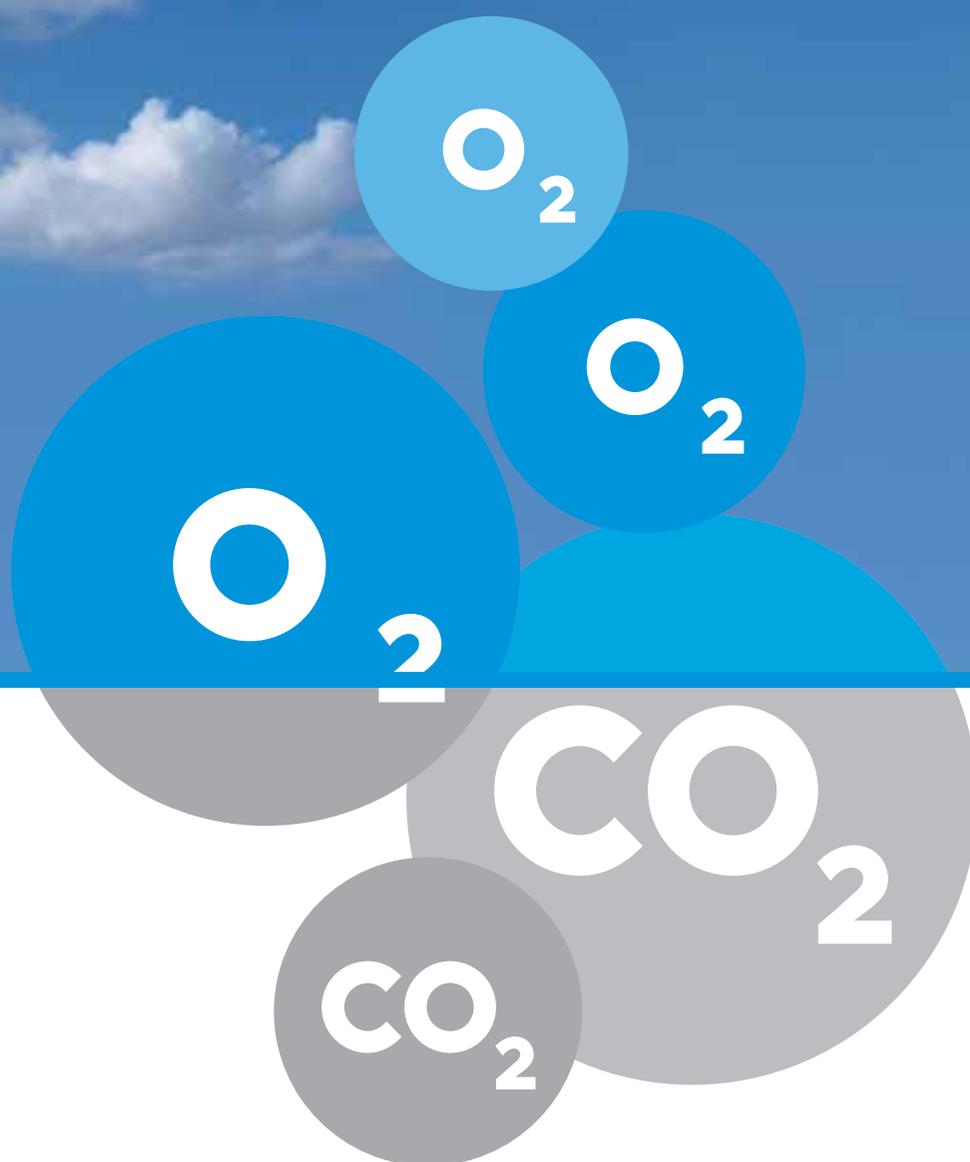


A tool  
for your  
community

ENESCOM



# Why CO<sub>2</sub> matters



This simple gas is the main regulator of the planet temperature producing a natural greenhouse effect. We lived the last 800,000 years with a concentration of CO<sub>2</sub> in the atmosphere never above 300ppm (part per million), a safe, balanced condition that allowed life on Earth to flourish.



Now things are changing. Human activities, heavy industrialization and intensive use of fossil fuels are pouring into the atmosphere huge amounts of CO<sub>2</sub> every years. Concentration of this gas has already reached 390 ppm, far above the safety limit that climate scientists indicate in 350 ppm.



The Global Warming is already threatening our safety and our economies, we are facing a real challenge and we have to react in a rapid and effective way as international community.

The ENESCOM project is a part of of the Intellingent Energy Europe program and intend to promote information, dissemination activities and Sustainable Energy Action Plans within 14 European partners and over 56 local communities. This means concrete actions to reduce CO<sub>2</sub> emissions and develop a sustainable way of life.

**CO<sub>2</sub>**

Accumulates in the atmosphere and takes long time to be reabsorbed by the system. Other greenhouse gases, potentially more powerful, have shorter cycles or are far less abundant. The raising of CO<sub>2</sub> promotes the emissions of other greenhouse gases from natural stocks like permafrost and sea beds.

**1 liter**

One liter of diesel fuel produces about 2,4 kg of CO<sub>2</sub>, the transports system is the third emitters after energy production and agriculture.

**2°C**

This is the safety limit for the rise of the average temperature on the planet indicated by the Intergovernmental Panel on Climate Change (IPCC). Scientists are warning that without severe and immediate reduction in CO<sub>2</sub> emissions we likely overcome this limit (realistic previsions concerning actual trends are between 1,8 °C and 3,4 °C - GIEC).

**350 ppm**

The safe limit of CO<sub>2</sub> in the atmosphere. (currently 390 ppm) We have to do our best to consistently reduce our emissions.

# SEAPs

A Sustainable Energy Action Plan is the key document that shows how the community will reach its CO<sub>2</sub> reduction target by 2020. It defines the activities and measures set up to achieve the targets, together with time frames and assigned responsibilities.

# 2100

Over 2100 local authorities have already signed the Covenant and are planning a cleaner and safer future.

- Built environment, including new buildings and major refurbishment;
- Municipal infrastructure (district heating, public lighting, smart grids, etc);
- Land use and urban planning;
- Decentralised renewable energy sources;
- Public and private transport policies and urban mobility;
- Citizen and, in general, civil society participation;
- Intelligent energy behaviour by citizens, consumers and businesses.

Reductions of greenhouse gas emissions due to industry delocalisation are explicitly excluded.

Sustainable Energy Action Plans should be presented and debated by the civil society. SEAPs with a high degree of citizen participation are the most likely to get continuity in the long-term and to succeed in attaining their objectives.

# 20-20-20

Eu is committed to transforming itself into a highly energy-efficient, low carbon economy. The 20-20-20 targets are part of this program. By 2020 we have to produce:

A reduction in EU greenhouse gas emissions of at least 20% below 1990 levels;  
20% of EU energy consumption to come from renewable resources;

A 20% reduction in primary energy use compared with projected levels, to be achieved by improving energy efficiency.

Signatories of the Covenant of Mayors contribute to these policy objectives through a formal commitment to go beyond this target through the implementation of their Sustainable Energy Action Plan.

# The Covenant of Mayors



## The key role of local authorities

Local authorities have a key role in mitigating climate change. Over half of greenhouse gas emissions are created in and by cities. 80% of the population lives and works in cities, where up to 80% of energy is consumed. Local authorities, being the closest administration to the citizens are ideally positioned to understand their concerns. Moreover, they can address the challenges in a comprehensive way, facilitating the conciliation between the public and private interest and the integration of sustainable energy into overall local development goals, be it development of alternative energy more efficient energy use or changes in behaviour.

## The Covenant

The Covenant of Mayors is an ambitious initiative of the European Commission that gives the lead to Europe's pioneering cities to mitigate climate change through the implementation of intelligent local sustainable energy policies that create stable local jobs and increase citizens' quality of life and address crucial social issues.

## Sustainable Energy Action Plans

The local governments signing up to the Covenant of Mayors commit to submit their Sustainable Energy Action Plans (SEAPs) within the year following adhesion. The Sustainable Energy Action Plan is a key document that shows how the local government will reach its CO<sub>2</sub> reduction target by 2020. Since the Covenant's commitments concern the whole geographical area of the city/town, the SEAP should include actions concerning both the public and private sectors.

In principle, it is anticipated that most SEAPs will include actions in the following sectors:



# ENESCOM for Mayors



### What can ENESCOM do for you?

The ENESCOM team can assist administration in the process to adhere to the Covenant of Mayors. In particular, ENESCOM experts can provide expertise and assistance for the following tasks.

### Understanding the CoM

They can help administrator to fully understand what the Covenant of Mayors is, what it implies and all the opportunities that it brings into a community. The ENESCOM team can organize meeting with Covenant Pioneers and experts to improve awareness, create networking opportunities, and collect key informations about the Covenant process.

### Energy baseline

The Baseline Emission Inventory quantifies the amount of CO<sub>2</sub> emitted due to energy consumption in the territory of the Covenant signatory. It allows to identify the principal sources of CO<sub>2</sub> emissions and their respective reduction potentials. The ENESCOM team will offer assistance and expertise for this fundamental activities.

### Training and dissemination

Organization of information and training activities addressing different target groups and creation of local front offices to act as info points for all citizens. These activities support the communities willing to integrate and institutionalize the intelligent use of energy into all area of life, to enter the Covenant of Mayors.

### SEAPs drafting

ENESCOM will foster the drafting of a Sustainable Energy Action Plan that reflect not only the point of view of administrators, but the involvement of the whole community.

### International team working

14 European partners and over 50 towns involved for a continuous exchange of data, expertise, creativity and knowledge.

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# Workflow

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

Creation of adequate administrative structures

Baseline CO<sub>2</sub> Emission Inventory & SEAP development with stakeholders and citizens

**STEP 2: Submission of your SEAP**

Implementation of the SEAP

Monitoring and reporting

**STEP 3: Regular submission of implementation reports**

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

## ENESCOM for citizens



### What can ENESCOM do for your community?

Having the ENESCOM project active in your community creates an interesting opportunity to move towards a new way to consider energy and the way we use it. Political will and investments in this field are important but the involvement of citizens and stakeholders is essential.

Every family, every company, every single person can act modifying the impact of his community on the planet. That's why ENESCOM will help to train and organize a network of info-points ready to provide correct information to each involved community.

### Understanding consequences and opportunities

The Covenant of Mayors is an extraordinary instrument for the community to plan the future harvesting the best opportunities. Sustainability and energy efficiency are part of a prosper social and economical evolution of our communities and everything starts from awareness. ENESCOM will help local administrations to organize dissemination events to raise general awareness and understanding of the issues related to Global Warming and the CoM process.

### Best practices and adaptation

The info points that ENESCOM will help to create are also dedicated to spread the voice about best practices, providing guidance to examples and experiences that proved effective and to suggest adaptation of these practices to your current context.

Not two communities are the same and the way we use energy or we produce pollution are often different from place to place. The data collected during the energy base line analysis of each community will greatly help in the selection and adaptation of the actions to take in every community context.

## Learn

Changing our lifestyle isn't too difficult if we understand where and how we waste energy. Investing time in learning how things work around us can prove very useful. Public Info Points and trainings in your community are precious opportunity to receive correct information and exchange experiences.

## Save

Energy saving is the easiest way to reduce the carbon footprint of our lives. With a minimum effort we can cut consumption reducing our costs at the same time.

## Talk

Sharing knowledge and opinions about Climate Change, pollution and issues concerning our use of energy is part of the community awareness raising process, a fundamental platform to foster change. Please talk and discuss about these topics at home, school, workplaces, etc.

## Care

We should care about future mainly because this can improve our present. Act now.

## ENESCOMs' partners

ENESCOM intends to promote widespread information and dissemination activities targeting 14 different EU countries aiming at achieving the following main objectives:

- to increase the number of EU local communities engaged in the mitigation of climate change through the promotion and adhesion of the Covenant of Mayors' initiative
- to develop capacity building in energy sustainability and the adoption of intelligent local sustainable energy policies (creation and implementation of SEAPs)
- to promote the integration and institutionalization of energy efficiency, saving and use of renewable energy sources (energy-efficient behaviours and lifestyles) within EU local communities, targeting all relevant stakeholders (public administration, businesses, citizens...)
- The objective will be reached by means of 30-months joint cooperation leading to the creation of a network of regional and local front offices with the main role of informing and counselling users on energy matters based also on the analysis/assessment of the local situation, promote and facilitate local authorities in the adhesion to the Covenant of Mayors and preparation of SEAPs/roadmaps, organize and run several training, dissemination and awareness-raising activities tailored to different target beneficiaries (students, citizens, stakeholders, policy-makers).

This activity will be supported by the creation of specific information and communication tools, materials and actions involving also the media. The widespread involvement of Pioneers of the Covenant of Mayors and disseminators/multipliers at local, regional, national and international levels will contribute to the achievement of the main project outputs and results, creating the basis for multiplying effect-transferability-replication of actions and knowledge.

### Useful references

[www.enescom.org](http://www.enescom.org)  
The site of ENESCOM project

[www.eumayors.eu](http://www.eumayors.eu)  
The site of the European program with document, forms, news and explanations.

[ec.europa.eu/energy/intelligent/](http://ec.europa.eu/energy/intelligent/)  
The site of the Intelligent Energy Europe program

### Related programs

Energy for Mayors  
[www.energyformayors.eu/](http://www.energyformayors.eu/)

Regions 202020  
[www.regions202020.eu](http://www.regions202020.eu)

City SEC  
[www.citysec.eu](http://www.citysec.eu)

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## List of nations and partners

 <b>Italy</b> Union of Municipalities Samoggia Valley	 <b>Poland</b> The Center of Education and Enterprise Support Association
 <b>Malta</b> Local Councils' Association	 <b>Spain</b> Iniciativas Casmor S.L.
 <b>Hungary</b> Eastern-Hungarian European Initiations Foundation	 <b>UK</b> Powys County Council
 <b>Czech Republic</b> Czech Technical University in Prague	 <b>Romania</b> Centru Regional Development Agency
 <b>Greece</b> Municipal Enterprise for Planning and Development of Patras S.A.	 <b>France</b> Regional Federation of Center Initiatives to Valorize Agriculture and Rural area of Brittany
 <b>Slovakia</b> Progresit	 <b>Croatia</b> INFORMO - Association for the employment support, professional education and training
 <b>Slovenia</b> Regional Development Agency Mura Ltd.	 <b>Portugal</b> Cascais Energy Agency

[www.enescom.org](http://www.enescom.org)



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