

## GREENHOUSE GASES EMISSIONS MANAGEMENT



Climatic changes, caused from greenhouse gases (GHG) emissions, are the most important environmental problem that humanity is facing in a global level. Phenomena, such as the number and the intensity of forest fires, extreme droughts and reduction of drinking water reserves are affecting planet ecosystems and, subsequently, they are influencing the quality of our lives.

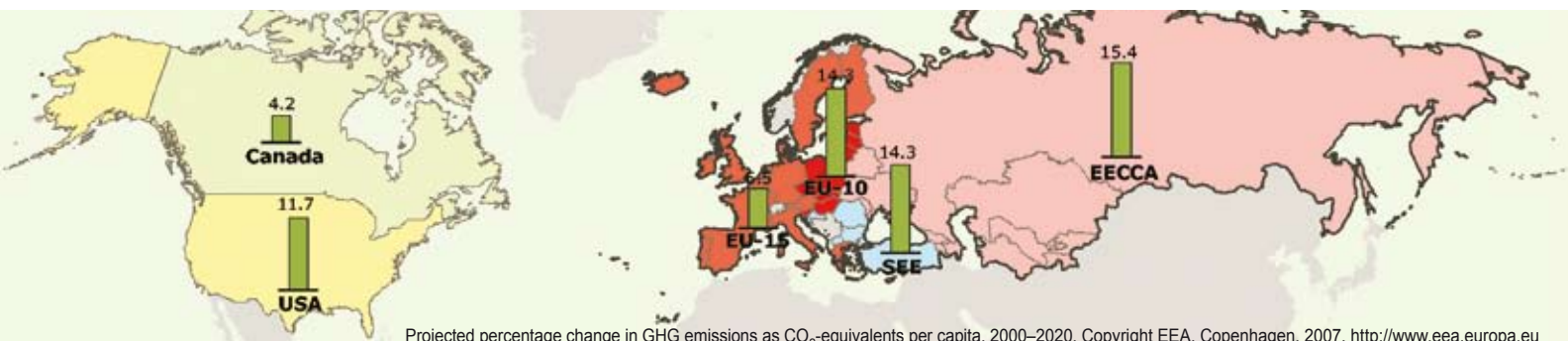
GHG emissions are primary caused by human activities. The global community has adopted agreements aiming at their abatement. Greece has undertaken the commitment to monitor its emissions and to report them to the UN and the EU. For the period 2008-2012 Greece is committed not to raise its emissions more than 25%, in comparison to 1990. The EU has decided to bind its members to further decrease their emissions by at least 20%, during the period 2013-2020. This is a commitment and a responsibility for each one of us.

**Significant effort is required to turn this commitment into action. Sustainability must be everyone's target and responsibility.**

### EPEM®'s EXPERIENCE

EPEM has been involved in the field of climatic changes since 2001. In the framework of the Development Assistance Committee (DAC / OECD), EPEM undertook a project to analyze the GHG emissions in the Balkan countries and to investigate potential mitigation measures and programs. Since then, EPEM has a leading role in this field. In 2004, it participated in the preparation of the first National Allocation Plan (NAP), for the period 2005-2007, and in the planning for the implementation of the Emissions Trading Scheme in Greece, according to the provisions of the EU Directives. In 2006, EPEM prepared the second Greek NAP for the period 2008-2012.

In 2005, EPEM introduced the CO<sub>2</sub>NTROL® family of products. Since then, it offers full support in several industrial facilities that participate in the Emissions Trading Scheme. This support includes calculation of GHG emissions, development of quality systems for emissions monitoring and reporting, carbon management scenarios, transferring of allowances in Greece and abroad, as well as specified information regarding climate changes and energy issues, through frequent periodical reports.



## THE PRODUCT

EPEM has the necessary experience and know-how, in order to offer an integrated product, in the form of a package of services, to business and organisations that are interested to calculate, monitor and reduce the GHG emissions that are caused by their activities. Such an effort is particularly important for the implementation of environmental management systems and corporate social responsibility reports.

Our services include:

### Initial calculation of GHG emissions

EPEM calculates the direct and indirect emissions that are produced by the company's activities. Calculations concern energy consumption of buildings and equipment, company's vehicles, employees' transportation, waste production etc.

### Development of key performance indicators

The company's emissions are related to its operation. Emissions per employee, per turnover, per operation hour etc, are estimated according to the specific activities of each company.

### Reduction plan and annual monitoring

In cooperation with the client, EPEM prepares a plan for emissions reduction. The plan includes specific targets, either for the reduction of the absolute emissions or the improvement of the relevant performance indicators. It also includes financial strategies for their accomplishment. In order to achieve this, the reduction plan takes into account the potential of implementing best operating practices, energy optimization of buildings and working procedures, as well as the potential of changing company's behavioral patterns.

Subsequently, EPEM undertakes the responsibility to annually monitor the emissions and to prepare a relevant report presenting the progress of the reduction plan.

### Carbon offset

Carbon offset refers to the reduction of emissions, either through purchasing and cancellation of emissions allowances or through actions that absorb GHG from the atmosphere. EPEM offers access in the national and global emission market that allows purchasing and cancellation of allowances in simple and fast procedures.

### Update

CO<sub>2</sub>NTROL® subscribers are automatically becoming subscribers in the CO<sub>2</sub>NTROL® info, which includes four reports per year, with news related to climate changes and energy issues. In addition, it offers on site seminars and training with practical advices on the implementation of the emissions reduction plan.

### Certification

EPEM, in cooperation with leading Verification Bodies and experts on GHG emissions, offers verification of the emissions report and reduction plan

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