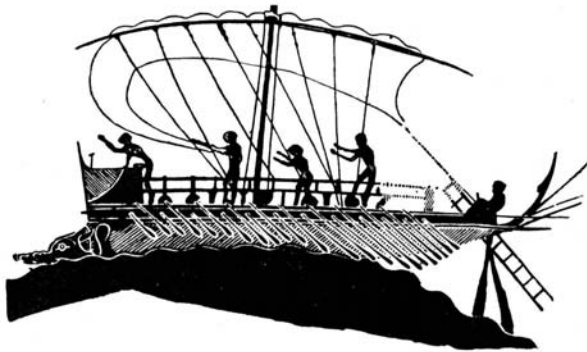


CLIMATE CHANGE AND INTERNATIONAL SHIPPING



Climate change is caused by greenhouse gases emissions. It is considered to be the most significant environmental issue faced by the humanity at a planetary level. Phenomena like the increase of the number and the intensity of forest fires, intense droughts, decrease of potable water reservoirs, etc, affect the ecosystems and, consequently, our lives. Greenhouse gases emissions are primarily caused by human activities. International shipping has a small but distinguishable share in global CO₂ emissions. The European Union has commenced the procedure to induce a control system for such emissions.

THE ROLE OF IPPC

IPPC specializes in environmental and climate change consulting. IPPC members participated to the development of the first Greek national allocation plan within the context of the European Union Emissions Trading Scheme (EU-ETS). This plan was applied in industrial activities during the period 2005 - 2007. After that, IPPC participated to the development of the second national allocation plan, which is being applied for the period 2008 - 2012. In addition, IPPC provides environmental and climate change consultancy services to leading Greek industrial installations that have been included in the EU ETS. In total, IPPC offers consultancy services to more than 30 companies out of 95 that participate to the EU ETS. Since 2010, IPPC has extended its field of activities to aviation and offers climate change consultancy services to some of the biggest aviation companies in Greece.

Furthermore, IPPC develops environmental management systems and emissions monitoring & reporting schemes that a company may voluntarily implement in order to control its environmental footprint or, more specifically, its GHG emissions:

- ISO 14001:2004 Environmental Management Systems
- ISO 14064:2006 Greenhouse gas (GHG) accounting and verification
- ISO 14067:2009 Carbon footprint of products



CONSULTING SERVICES

IPPC has the necessary knowledge and experience to offer an integrated product, in the form of a package of services (CO₂NTROL®) to maritime companies that are interested to calculate, monitor and reduce the greenhouse gases emissions caused by their activities. Such an effort is particularly important for the implementation of environmental management systems and corporate social responsibility reports. Furthermore, it is a necessary precondition in order to participate to the EU Emission Trading Scheme or in any other equivalent international emissions monitoring & reporting scheme that may be decided by IMO and/or EU.

The services we provide include:

Development of emissions monitoring and reporting plans

IPPC develops GHG monitoring and reporting plans according to the relevant European Decisions (obligatory scheme) or according to the international standard ISO 14064:2006 (voluntary scheme). The plan may be integrated in an existing quality standard (ISO 9001) or environmental management system (ISO 14001) that an organization already implements. The existence and function of such a plan is a necessary first step in order to participate in any international GHG emissions control scheme.

Emissions calculations and monitoring indicators

IPPC calculates the GHG emissions caused by international shipping. Calculations are according to the UNFCCC and EU regulations and guidelines. In addition, IPPC develops appropriate indicators that can be used to compare the emissions of a fleet or a single ship in a comprehensive and useful way.

Carbon trading and Carbon offset

Carbon offset means to counterbalance emissions either through allowances purchase and cancellation or by taking positive actions that lead to GHG sink (e.g tree plantations). IPPC offers access to the local and international carbon markets and transactions of EUA, CER, ERU and allowances cancellation through simple and fast procedures.

Briefing

Our customers are automatically subscribed for the CO₂NTROL® info newsletter, which delivers four regular reports per year regarding climate change and energy. Moreover, IPPC offers onsite seminars and training to the executives of the company regarding climate change in general or more focused training on monitoring & reporting plans.

Certification

IPPC, in partnership with the leading Greek Verifications Bodies, organizes the certification procedure of the monitoring plan, the emissions report and the carbon offset.

KNOWLEDGE AND ENVIRONMENTAL CONSCIENCE AT THE SERVICE OF SUSTAINABILITY



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