

<b>Title of the measure:</b>	EU 3 E2MAS Programme
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### **General description**

The E2MAS Programme has been proposed during the European Climate Change ECCP process. It has been included in the ECCP final report as a key measure in the industrial sector, and it is mentioned in the recent Commission ECCP communication as a measure worth to be further developed.

This energy audit and management scheme is felt to be an important measure to foster energy efficiency in industry, in particular in non-energy intensive sectors and SMEs. It will build on the success of the existing environmental auditing EMAS scheme, which however is not focused on energy efficiency. It aims at the lowest level of “rules” and bureaucracy. It will use the same approach used for the GreenLight Programme. It is right now in the design phase. A pilot test is foreseen for 2002 and its launch is scheduled for the end of 2002.

The E2MAS is a voluntary programme through which private and public companies commit to continuous improvement of energy efficiency to:

- achieve the major portion of technically and economically feasible energy savings. In particular, the actions undertaken must satisfy the criterion of economic efficiency, so that the allocation of scarce financial and human resources is justified from the viewpoint of the organisation.
- Establish top- management commitment to energy efficiency.
- Record progressive improvement in energy efficiency and communicate the achievement to the general public.

*Eligibility criteria:* Participation in the scheme is organisation- based or site-based and open to companies operating in all sectors of economic activity . To maintain the credibility of the Partnership, some eligibility criteria have been developed, in the form of the E2MAS Charter.

Registration in the scheme requires the organisation to adopt an energy efficiency policy containing the following key commitments:

- Compliance with all relevant environmental and energy legislation;
- Achieving continuous improvements in energy efficiency performance;
- Establish a management commitment to energy efficiency;
- Carry out cost- effective energy efficiency actions;

*The E2MAS responsible persons:* Each Partner shall designate the person responsible for assuring the Programme execution. This person will:

- verify that appropriate management tools and policies are created to implement the programme;
- report to top management on progress;
- prepare reports to the Commission.

*The E2MAS Process:* An organisation wishing to joint the E2MAS programme will proceed by the following 5 step process.

- 1) Organisation undertakes initial energy review.
- 2) Organisation establishes an energy efficiency action plan, defining scope and nature of its commitment, and establishes an energy efficiency management system.
- 3) Approval of programme and management system by the Commission. Granting of Partner status.
- 4) Partner executes programmes, carry out regular energy audits, and reports annually to the Commission and to the general public
- 5) The Commission evaluates annual report and renews Partner status.

*Scope of the Commitment:* The scope of the commitment defines the sites at which energy efficiency actions will be undertaken. The organisation will identify, within the chosen sites, the systems/ devices and processes to which the commitment applies. The commitment may cover all or some of the following

systems/ equipment:

- Lighting and office equipment systems
- Electric motor systems
- Power and steam generation systems (CHP)
- Production processes.
- HVAC systems.
- Heat recovery systems
- Cooling systems (including water and food preservation systems)
- Load management
- Building insulation
- electro technologies

### ***Impact Assessment***

<b>Ex-post evaluation</b>	1995	2000		
CO <sub>2</sub> (kt)				
Energy (TJ)				
<b>Ex-ante evaluation</b>	1995	2000	2010	2020
CO <sub>2</sub> (kt)			40 Mt <sup>1</sup>	
Energy (TJ)				

<sup>1</sup> only estimate as a package of measures comprising E2MAS (comprehensive energy audit and management scheme), Long term agreements with energy intensive industries, Adapting the Integrated Pollution Prevention Control IPPC Directive, Active energy services for SMEs. Cost effective potential < 20 Euro/tonne. Potential > 20 Euro/tonne estimated at 60 Mt CO<sub>2</sub>.

Source:

1) 2010: European Climate Change Programme ECCP

<http://europa.eu.int/comm/environment/climat/eccp.htm>

2) End-use energy efficiency activities at the European Commission Joint Research Centre, Institute for Environment and Sustainability

<http://energyefficiency.jrc.cec.eu.int/>

3) Three new Community energy efficiency voluntary programmes: GreenLight, MotorChallenge, E2MAS, Paolo Bertoldi, Joint Research Centre

<http://www.eurelectric.org/docs/2001-030-0440-7.pdf>.

### ***Historical data***

Predecessor: Environmental auditing scheme EMAS

### ***References***

Press Release: IP/06/1572, 16/11/2006,

<http://europa.eu/rapid/pressReleasesAction.do?reference=IP/06/1572&format=HTML&aged=1&language=EN&guiLanguage=en>

The Eco-Management and Audit Scheme (EMAS);

[http://ec.europa.eu/environment/emas/index\\_en.htm](http://ec.europa.eu/environment/emas/index_en.htm)

<http://ec.europa.eu/energy/iebase/sectreps/02%20Industry.pdf>