

PROJECT PARTNERS

EMSPI

Energy Management Standardization
in Printing Industry



Co-funded by the Intelligent Energy Europe
Programme of the European Union

ENVIROS

Czech Republic, is a leading consulting company providing assistance mainly in the field of energy, environmental and business consultancy.



FACTOR CO2

Spain, is well recognized for its knowledge on developing and applying climate change policies, mitigation and energy efficiency assessments.



INNOWISE

Germany, is a research & consultancy company with special expertise in innovation management, knowledge & technology transfer.



GRAKOM

(Graphic Association Denmark), Denmark, is the principal organisation for Danish graphic companies composed by graphic production companies producing printed and electronic products.



DIENSTENCENTRUM

The Netherlands, supports around 400 media enterprises per year (mainly SME's) in their management of their business. Dienstencentrum is also coordinator of the EMSPI project.



EU PROJECT: ENERGY MANAGEMENT STANDARDIZATION IN PRINTING INDUSTRY

The project aims to promote actions to increase the energy efficiency at European Small and Medium sized Enterprises (SMEs) of the Printing Industry by promoting the implementation of Energy Management System based on the global standard ISO 50001.

The main specific objectives of EMSPI project are the following:

To develop a specific adaptation of the global standard ISO 50001 for the energy management in printing SMEs and sector-specific implementation guidelines.

To implement the specific energy management standard at 100 SMEs (during lifetime project).

To enhance the awareness on the benefits of energy efficiency tools to all the Printing Industry stakeholders in European countries.

In the longer run, the project create a "critical mass" or multiplier effect at industry level in order to expand the developed set of tools and specific communication materials.

EXPECTED RESULTS

- 1 100 SME's with a fulfilled energy management system according to EN 16001 and/or ISO 50001 and potentials on energy efficiency improvement.
- 2 40.000 GJ, 880 ton CO2 and €915.000 of potential savings during the project lifetime.
- 3 Awareness of 300 SME's per country on energy efficiency and energy management and how to use tools and project materials within the industry in each country, through direct and indirect dissemination activities.

For more information about this project and deliverables, visit the website: www.emspi.eu. You can also find and download the reports at the website.

FLOW CHART OF THE WORK PROGRAMME



The project is divided in different work packages (WP). WP2, WP3, WP4 and WP5 are phases of analyses and the accumulation of knowledge. In WP6, the last phase, the prototype of the Energy Management System will be implemented and tested. The goal of this projects is to provide a system that helps enterprises learn how to be more efficient in the management of energy and to promote the reduction of energy at European Small and Medium Enterprises.

WP2. Energy Sector Diagnosis

This work package focuses on analysis and assessment of the current situation in the printing industry in terms of Energy Management. According to Energy Management Systems' standards (EN16001, ISO 50001), defining an energy baseline is the first step to take to implement such systems. Analyzing energy sources, equipment and tools used in the printing industry will help to define the baseline.

WP3. Parameterization; setting up of specific energy Printing Industry Indicators

All the information analysed in the previous work package will be used to establish energy use parameters in the printing industry by means of producing Energy Indicators. This WP is an intermediate phase that will provide the technical base to implement energy management system under an adapted standard for the printing industry.

WP4. Printing Industry Adapted Energy Management Standard Development

Previously generated information of 5 participant EU countries regarding energy use and management, specific project materials (including procedures and registries) to implement the EMS will be developed. Standard materials will be created using as benchmark EN 16001 and ISO 50001 and will be used as guideline for Energy Management System adapted standard development, including the following: Development of these materials for printing industry SMEs will be based too on other EU funded projects like BESS, and European Energy Efficiency Improvement.

WP5. Specific Guidelines Development

The Standard materials and implementation process has been established in the previous Work Packages but the consultant team aims to develop in this WP information and tools to maximize the benefits associated to the implementation of the standard including strategic and operational criteria (Green marketing techniques, KPI environmental indicators, Quality control and analysis of ESCOs' involvement potential).

WP6. Implementation of Adapted Energy Management Standard

An adapted Energy Management System for the printing industry will be implemented in 100 SMEs with the help of consultants/energy managers to enhance the awareness of industrial associations and SMEs in the European Printing Industry by introducing different materials, awareness tools, benchmark tools for assessment, and a EMS Standard manual for the printing industry in the EU.

What is energy efficiency?

Energy efficiency is using less energy to provide the same service.



The Energy Management System for the printing industry is developed and will be implemented in 100 SMEs with the help of consultants/energy managers to enhance the awareness of industrial associations and SMEs in the European printing industry. Several materials, awareness tools, a benchmark tools for assessment, and a EMS standard manual for the Printing Industry in EU are developed.

The EMPSI-project has the option for companies to participate in the project to implement an energy management system. The organizations interested in implementing an Energy Management System (EnMS) are able to choose one of the following options:

Basic: Designed as a first step in EnMS. For organizations that cannot develop all the requirements of the ISO 50001 standard.

Full: Leading to a complete implementation of the EnMS, assuming all the requirements of the ISO 50001 standard. For highly committed organizations.