Ambient-Intelligent Interactive Monitoring System for Energy Use Optimisation in Manufacturing SMEs

From 2008-09-01 to 2011-08-31, closed project

Project details

<table>
<thead>
<tr>
<th><strong>Total cost:</strong></th>
<th><strong>Topic(s):</strong></th>
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<tr>
<td>EUR 2 784 037</td>
<td>ICT-2007.6.3 - ICT for environmental management and energy efficiency</td>
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<tr>
<th><strong>EU contribution:</strong></th>
<th><strong>Call for proposal:</strong></th>
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<tr>
<td>EUR 2 000 000</td>
<td>FP7-ICT-2007-2</td>
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<th><strong>Coordinated in:</strong></th>
<th><strong>Funding scheme:</strong></th>
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<tr>
<td>Germany</td>
<td>CP - Collaborative project (generic)</td>
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Objective

The main business aim is to produce a leap forward in energy efficiency and cost reduction in manufacturing SMEs. The AmI-MoSES project will develop an (ambient) intelligent monitoring system for energy consumption, dedicated to manufacturing SMEs, to provide comprehensive information about the energy use, and knowledge-based support for improvements in energy efficiency. Existing energy consumption data will be complemented by different information from AmI systems (e.g. AmI systems for interactions between human operators and machines/processes etc.) and process related measurements (e.g. specific manufacturing line temperatures) and fed to the SOA based platform. The platform will allow to build different SW services, using the measured and processed data, such as On-line diagnostics of energy related problems in an SME, Continuous improvement of energy consumption etc. The services will, among other functionalities, interactively provide suggestions of the appropriate actions for problem elimination and energy efficiency increase. The decision making support for the energy efficiency increase will be also environmentally based, meaning that the problem elimination suggestions will always take care about the environmental performance from the manufacturing SME sectors, reducing the need for natural energy sources.

The consortium SMEs will provide industrial testing environments, some of the major technical inputs including the energy measurement equipment, energy consumption monitoring, energy auditing, and energy saving expertise.

Related information

Documents and Publications

- Study of Aml Requirements
- Assessment of the Full Prototype and Methodology
- AmI-MoSES Industrial Methodology
- Full prototype of the Aml-MoSES Service Platform
- AmI-MoSES Demonstrators
- Public Project Report
- Full prototype of the module for Measurement Data Processing and EUP
Coordinator

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Subjects

- Electronics and Microelectronics
- Energy Saving
- Environmental Protection
- Information Processing and Information Systems
- Telecommunications

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