



ENER/FP7/296003/EFENIS
10/01/2014



Project no.: 296003

Project full title: Efficient Energy Integrated Solutions for Manufacturing Industries

Project Acronym: EFENIS

Deliverable no.: 2.4

Title of the deliverable: Report on functionality and EMS integration for energy information and accounting systems (Public Summary)

Contractual Date of Delivery to the CEC: Month 24

Actual Date of Delivery to the CEC: Month 17

Lead beneficiary: P16 - AI

Author(s): Dr. Oscar Manso (AI), Dr. Jakob I. Pagter (AI), Michael Stausholm (AI)

Participant(s): P16

Work package contributing to the deliverable: WP2

Nature: Report

Version: 1.0

Total number of pages: 37

Start date of project: 1st August 2012

Duration: 36 months

Project co-funded by the European Commission within the Seventh Framework Programme (2007-2013)

Dissemination Level

PU	Public	
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	X



ENER/FP7/296003/EFENIS
10/01/2014



This report presents a model for the Electronic Management System (EMS) of a Total Site Utility System as proposed under the scope of the EFENIS project.

The report also includes a preliminary Risk Analysis performed on the EMS model initially presented.

The preliminary Risk Analysis presented in this report is based on the parameters considered as essential to accomplish the mission of the EFENIS project, which have been defined as: “To facilitate and accelerate a move to low carbon manufacturing processes and site management by deployment and demonstration of innovative energy management systems and enabling efficiency technologies, which extend the scope of energy management outside the boundaries of a single plant to total site and then beyond the total site to district heating/cooling systems”.

The main results and conclusions obtained from the preliminary Risk Analysis undertaken in this report show that the EMS model proposed can be effectively used on a Total Site Utility System to achieve the mission of the EFENIS project with an Acceptable Risk Score¹ if: The EMS model conforms correctly to the specification presented in this report and it is deployed with all the Security Controls recommended in this preliminary Risk Analysis.

However, before putting in place a system like the one presented here, we highly recommend that, apart from taking this preliminary risk analysis into account, each organization participating in the Total Site Utility System performs an additional risk analysis tailored to its specific requirements.