



## SEVENTH FRAMEWORK PROGRAMME

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**Project full title:** Efficient Energy Integrated Solutions for Manufacturing Industries  
**Project Acronym:** EFENIS  
**Deliverable no.:** 2.5  
**Title of the deliverable:** Software module for energy information and accounting systems (Public Summary)

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<b>Lead beneficiary:</b>	P16 - AI
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## Dissemination Level

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

This report presents a system designed to support the security requirements for the Electronic Management System (EMS) of a Total Site Utility System as proposed under the scope of the EFENIS project.

The basic functionality for such system has been designed to support for easy deployment on different environments in order to facilitate their integration with the proposed model.

Since the deliverable considers the security aspects of the software system, only general outline is provided in this public summary.

Components of the EMS System to secure

Proposed Public Key Infrastructure used to secure EMS System

Proof of concept of the proposed Public Key Infrastructure

Efenis Registration Authority – Efenis RA

Service for requesting a Site Certificate

Service for requesting a Personal Certificate

Efenis Certification Authority – Efenis CA

Service for issuing a Certificate

Service for retrieving CA root Certificate

Service for revoking a Certificate

Efenis Validation Authority – Efenis VA

Service for Checking the Status of a Certificate

OCSP Service

CRL Service