



ENER/FP7/296003/EFENIS



Project no.: 296003
Project full title: Efficient Energy Integrated Solutions for Manufacturing Industries
Project Acronym: EFENIS
Deliverable no.: 11.2
Title of the deliverable: SPECIFICATION SHEET FOR ENERGY INTEGRATION
MANAGER TOOL

Contractual Date of Delivery to the CEC: Month 24
Actual Date of Delivery to the CEC: Month 24
Lead beneficiary: TUHH
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Work package contributing to the deliverable: WP11
Nature: Report
Version: 1.0
Total number of pages: 11
Start date of project: 1st August 2012
Duration: 36 months

An algorithm for an efficient integration of changes of process and utility stream data into an existing total site analysis has to be developed.

The conclusions of the given task have to be captured in the derived technical specification sheet for the implementation of an Energy Integration Manager tool. The functionality of the Energy Integration Manager tool is given in Figure 1. It is shown, that the Graphical User Interface (GUI) is directly linked to the Data Interface. The Data Interface itself is linked to the Process Data, a Flowsheet Simulator, a HEN Optimisation Framework and a Project Data Bank.

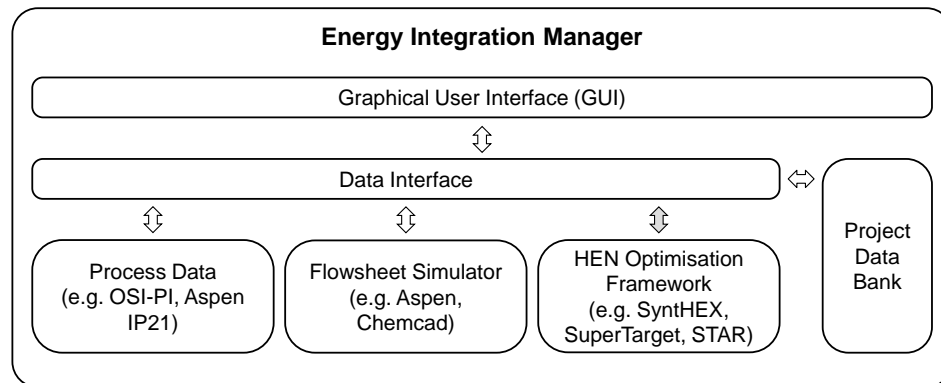


Figure 1: Framework for Energy Integration Manager

This specification sheet ensures that all required functionalities will be covered. The data types and structures that have to be transferred at both interfaces have to be defined.

At first, without going into technical details, the main requirements for an Energy Integration Manager tool are defined. Certain key requirements are derived from the overall description. These key requirements are specified in more detail with the help of a complete requirement list and a development schematic.

The next step is the description of the developed system architecture.