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(Public Summary)

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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

The main objective of work package 5 is the implementation of methods and tools developed in the work packages for the *decision-supporting methodology* and for the *enabling technologies*. This specific report of task 5.6 covers the application of the Energy Integration Manager tool (EnIgMa) developed through the course of work package 11. Task 5.6 is concerned about the base case of the industrial data. The base case is defined as the original state of an exemplary chemical process without modifications that may be realised due to the EFENIS project. The first prototype version of the EnIgMa tool was used to give proof about its core functionalities.

Major topics of this deliverable are:

- A stepwise explanation of the chemical background necessary for understanding the industrial process
- The overview of how the presented steps were implemented as automated flowsheets via computer aided modelling
- An abstract of the complete site in which the process is situated
- Several specific solutions that had to be addressed as core functionalities for the energy integration manager tool, specifically:
 - Importing flowsheet data
 - Editing flowsheet data via Excel
 - Energy targeting and visualization
 - Data transfer to third-party optimization frameworks