

Total Energy Management for Production Operations (TEMPO)



Project Acronym: TEMPO
Project Details: Total Energy Management for Production Operations
Start Date: June 2012
Duration: 42 Months
End Date: December 2015



Project Description

The project aims to establish effective Energy Monitoring Tools that will provide production facilities with detailed, real-time information on all energy usage set in the context of production performance. Current energy monitoring tools do not provide this information in the context of production activity. In such cases, factory managers will need to refer to two different systems to allow them really manage energy and factory performance. Integration of the energy information and production information into once decision support system will allow for energy and production optimisation, cost reduction and standardised comparison of energy consumption across product lines, tools, machines and facilities.

The project will provide a fully integrated solution based on intelligent energy nodes for monitoring, detailed heuristic and predictive data analysis and multi-layer visualisation and decision support tools.

A vital element of this project is the demonstration of the system, and its effectiveness is a busy manufacturing environment. Particular attention will be paid to ensuring that the instrumentation (needed to monitor energy use and production activity) is cost effective, and to ensuring that the installation of the system will not significant impact on available production time.

This project is being run in collaboration with Innovation for Irelands Energy Efficiency (I2E2) Research Centre.

Participating Research Organisations	Contact
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