



Horizon2020 Information Days on Public-Private Partnerships

Brokerage event
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***INDUSTRIAL PROCESS MODELLING FOR INDUSTRIAL
ENERGY EFFICIENCY***

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Key Areas

Advanced Vacuum Glazing
Biomass & Bioenergy
Building Retrofit
Carbon Capture & Storage
Energy Market Modelling
Energy Management
Energy Storage
Heat Pumps
Passive Homes
Smart Metering
Solar PV & Solar Thermal
Thermal Comfort



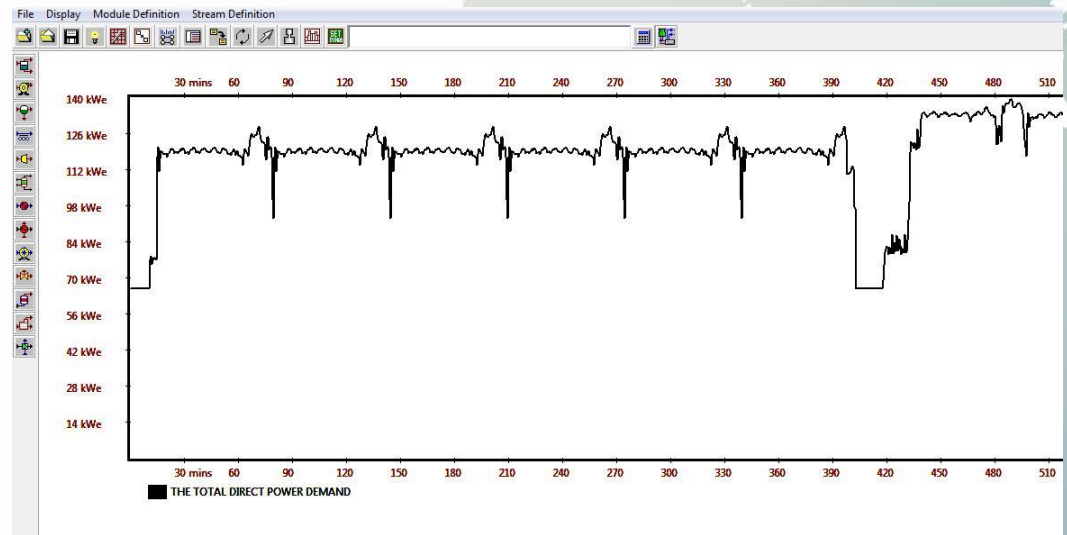
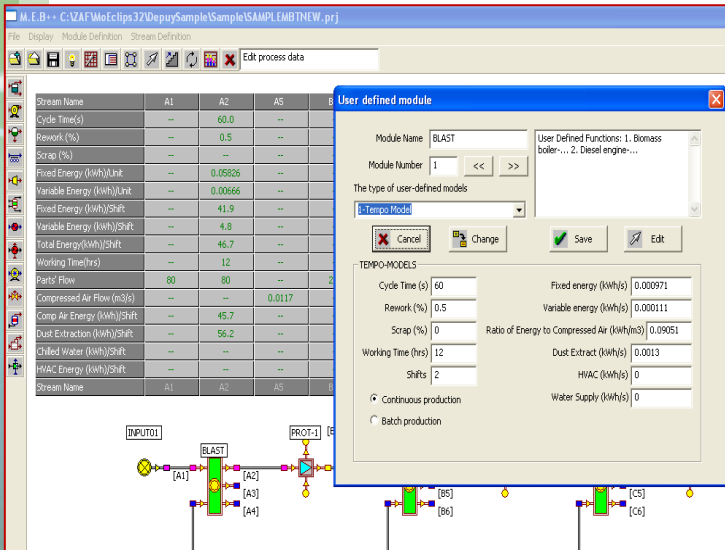
PROJECT IDEA

Call: SPIRE-06-2015:

Energy and resource management systems for improved efficiency in the process industries

Optimisation Tools: ECLIPSE-i developed by Ulster

Impact: Accurate dynamic simulation => efficiency



EXPECTED IMPACT

Use of existing “embedded” metering to “map” energy usage throughout the plant

Dynamic modelling of processes cross checked by available meters

Non-production related energy values noted

Two wide scale impacts:

1. Factory services efficiencies and use of utilities
2. Machinery improvements (especially in idle/part-load operation)
3. Reduced investment in instrumentation and related analysis

CONTACT DETAILS

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