

Energy Efficiency Monitoring and Analysis System (E²MAS)

BACKGROUND

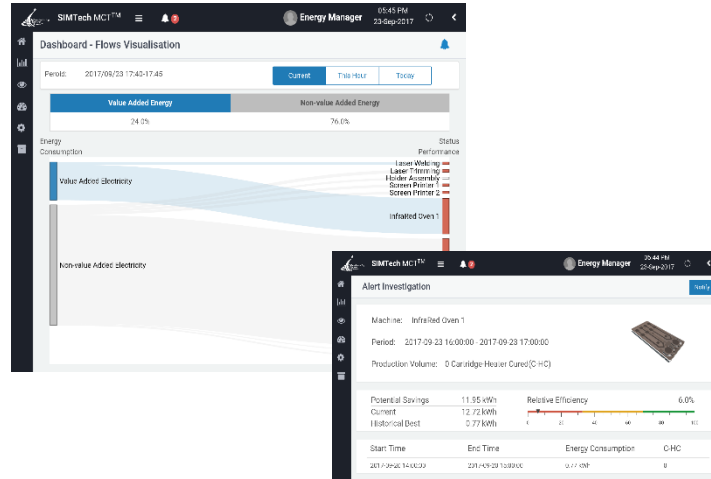
Manufacturers can easily monitor their energy consumption based on their monthly utility billings. However, understanding the energy efficiency of their machines and equipment still remains as a challenge.

OBJECTIVES

To help companies implement Energy Efficiency Monitoring and Analysis System (E²MAS) to assess the equipment's energy usage in real-time and identify hotspots of excessive energy usage. These hotspots can then be analysed to derive quantifiable energy improvement.

DELIVERABLES

Type	Description
Consultancy	Setup & Configuration Training & On-site Implementation
Hardware	1 x tablet 1 x notebook computer 3 x power meters (with 100A current transducer, connectivity module and installation)
Software	1 x E ² MAS License 1 X MS SQLServer (5 CAL) License



Screenshot of E²MAS

BENEFITS

- Assess the equipment's energy usage in real-time
- Understand where and how energy is consumed on your shop floor
- Identify hotspots of excessive energy usage
- Analyse hotspots to derive quantifiable energy improvement potentials
- One-click reporting

Productivity Indicator	Expected Improvement
Reduced energy consumption	10 – 20%
Reduced reporting effort	90 – 100%

Total Cost: S\$20,000 + GST

\$12,080 SPRING funding for SME (Subject to Approval)

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