Advantages of MES

Visibility
- Real-time information made available across the enterprise
- Plant-floor data transformed in real-time into executive level information

Cost Reduction
- Ability to predict breakdowns through historical maintenance data
- Reduction in manual data collection methods
- Virtually paperless information system

Flexibility
- Data can be collected from practically any type of equipment
- Additional data points can be easily added without any modifications to the software

Advantages of Web Solutions:
- Easy to use web interface
- Easy to maintain because there are no extra client tools to install
- Remote access to information for multiple users

Can-Technologies Services and Expertise

Can-Technologies has a team of skilled MES and Web solution professionals with experience in a wide range of system applications. We have successfully implemented MES systems in industries including Automotive, Power Generation, and Steel. Can-Technologies provides a wide range of services aimed to provide complete solutions that fit the customer’s needs from start to finish of any MES implementation as demonstrated by our proven project approach:

STEP 1: Discovery and Data Gathering
STEP 2: Functional Specification
STEP 3: Implementation
  - Detailed Design
  - Pilot Development
  - Workshop and Customer Feedback
  - Customer Approval of Pilot
  - Mass Development
  - Testing
  - Installation and Validation
  - Documentation
  - Training
STEP 4: Ongoing Support and Training
Case Study 1: Heat Tracking in Steel Manufacturing

The availability of data is a key to optimizing any manufacturing process. Knowing this, a global steel manufacturer sought to introduce a system for monitoring and analyzing heat data from the beginning of scrap loading up to the final casting process. In addition to the basic data analysis requirements of the customer, it was necessary that the solution be scalable in order to incorporate future expansions of the facility and data collection system.

To accommodate the needs of the customer, Can-Technologies proposed an out of the box system based on Activplant software. As an enterprise solution, Activplant provided the necessary flexibility and expandability required by the customer. Being web-based, it also meant that important process data could be made readily available to those responsible for process improvement and analysis.

Can-Technologies seamlessly integrated the Activplant system into the existing network and developed reporting applications for retrieval of various key performance indicators (KPIs) including yield, downtime, energy usage and profitability metrics. The final system effectively centralized production data and significantly improved plant floor visibility.

Case Study 2: Web Monitoring/Control for Pumphouse

A world-class producer of iron products was periodically experiencing downtime in their facility due to the lack of alarm and fault information being readily available from their cooling-water pump house. The normally unmanned pump house contained the equipment responsible for supplying the cooling water to the main plant, and in the event that a piece of pumphouse equipment failed, often the only notice of the failure would come in the form of shutting down the line of production due to low water pressure.

Because the pump house is normally without an operator, the customer needed a solution that would provide them remote insight into the pump house with information feeding back in real-time.

Can-Technologies presented a solution using an industry standard Web framework that would provide both real-time feedback, as well as remote system control from any PC with the proper security privileges in the plant.

The solution contained rich graphical displays of the equipment, laid out in a fashion similar to schematic drawings. This layout allowed the maintenance personnel to quickly become proficient with and take advantage of the benefits of the system.