

Presentation Abstract

M&V Using M2M Technology

Machine to Machine communication is a new business growing with the convergence and reduction in costs of control and instrumentation systems, communications and data storage and analysis systems. It has the benefit of faithful continuous monitoring which is humanly impossible, and an ability to identify variations in performance that might be missed by a human operator. It is possible to bring together on one platform all types of measurements: electrical, thermal, and process related so that all parameters that affect a process and its energy use are available for analysis. Since the data is acquired automatically the decision maker can concentrate on what it means, rather than on whether the measurement was correctly recorded by the operator. The system can analyse data according to predetermined rules and bring to light exceptions that can be acted upon. Routine reports can be automatically generated and are available to all authorised users at all times regardless of the user's location. Since report generation is not dependent upon a human being, accuracy, and timeliness are natural outcomes.

These features make it ideal for third party measurements, and public reporting systems, as no human bias would influence the recorded values.