

This solution is at RWM exhibition, NEC Birmingham, Hall 4 – stand C50-D51 from 15-17 September 2015.

New hybrid power source (HPS) energy management system can select best source while also reducing consumption by up to 30%

RWM exhibition, Birmingham, 15.-17.9.2015

Reducing energy consumption is just one part of an industrial company's energy management strategy, it must also source or generate its energy competitively, while taking account of CSI and green initiatives which may affect the energy mix. This situation opens up the requirement for a solution that can make complex purchasing and management decisions far easier.

For instance, what appears to be a low price offer may have serious penalty clauses that could compromise the apparent savings. Attractive renewable sources tend to be inconsistent in supply, so need to be used in conjunction with a traditional grid source. Off-grid solutions, such as when waste water processors install biogas generation systems or other companies use biomass and waste as a fuel for local CHP projects, tend to require high capital investment.

The ideal industrial energy management system then would be able to compare suppliers' offers in real time and switch between them in an instant while avoiding incurring penalty clauses. It would also manage on-site equipment such as pumps, fans, processing plant, and conveyors for maximum energy efficiency.

A new solution meeting these needs has been developed jointly by Mitsubishi Electric and Avangreen. It enables industrial businesses to develop and implement sustainability strategies, energy efficiency and clean operations.

The new Hybrid Power Source (HPS) technology addresses the twin requirements of optimising energy usage and seamlessly combining different power sources. HPS allows optimal, simultaneous and automatic use of different power sources, maximising the use of the cheapest available power source to provide significant energy savings. It also enables renewable power sources – including off-grid supplies – to be used in conjunction with the grid connection.

HPS combines Avangreen's expertise in energy management with Mitsubishi Electric's proven electrical and automation technologies – including control software, inverters, low voltage switchgear, medium voltage switchgear, PLC systems, auxiliary systems and substation technology.

Mitsubishi Electric's reputation for quality and reliability in application areas such as the water industry, aggregates and metals processing, pulp & paper and others made the company an ideal partner for Avangreen. All components and systems within the HPS are from Mitsubishi Electric and so are covered by the company's warranties and guarantees.

Example application delivers 30% energy reduction:

HPS has been successfully used at a water pumping station that was previously drawing more than 1 MWh from the grid, at an annual cost of approximately 160,000 Euro. Installing HPS has led to over 30% energy

savings and an impressive ROI of less than four years for the entire project. HPS combined grid connection with on-site solar generation and optimised performance by maximising use of the PV plant and only drawing energy from the grid when needed. It also constantly adjusted the pump speed so that only the required amount of water was being pumped at any time.

You can see HPS, plus other Mitsubishi Electric solutions on the company's exhibition stand at the **RWM exhibition, Birmingham, 15-17 September 2015**, Hall 4 – stand C50-D51. Mitsubishi Electric will also be involved in presentations and panel discussions on energy saving technology during the show in the EFW Theatre.

Image caption:



Picture 1: The new Hybrid Power Source combines Avangreen's expertise in energy management with Mitsubishi Electric's proven electrical and automation technologies.

[Source: Mitsubishi Electric Europe B.V.]

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About Mitsubishi Electric

With over 90 years of experience in providing reliable, high-quality products to both corporate clients and general consumers all over the world, Mitsubishi Electric Corporation is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, as well as in products for the energy sector, water and waste water, transportation and building equipment.

With around 124.000 employees the company recorded consolidated group sales of 39,3 billion US Dollar* in the fiscal year ended March 31, 2014.

Our sales offices, research & development centres and manufacturing plants are located in over 30 countries.

Mitsubishi Electric Europe B.V., Factory Automation European Business Group (FA-EBG) has its European headquarters in Ratingen near Dusseldorf, Germany. It is a part of Mitsubishi Electric Europe B.V., a wholly owned subsidiary of Mitsubishi Electric Corporation, Japan.

The role of FA-EBG is to manage sales, service and support across its network of local branches and distributors throughout the EMEA region.

**Exchange rate 103 Yen = 1 US Dollar, Stand 31.3.2014 (Source: Tokyo Foreign Exchange Market)*

Further Information:

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RWM 15 – 17 SEPTEMBER 2015
NEC BIRMINGHAM

IN PARTNERSHIP WITH  CIWM RESOURCE EFFICIENCY AND WASTE MANAGEMENT SOLUTIONS

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