

PRESS RELEASE

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Mitsubishi Electric Europe shows how to get the most from waste to energy and renewable resources

Mitsubishi Electric has a proven track record of supplying turnkey Electrical, Instrumentation and Control (EI&C) projects for energy producers including full engineering and commissioning. This includes systems for Energy from Waste, Biomass and related industries, such as Biogas based generation for Waste Water clients – covering both electricity generation from steam turbines and district heating. Whatever the application, Mitsubishi Electric is likely to offer a solution, which is why the market leading company is both exhibiting at the RWM show, acting as an event sponsor and sharing its expertise at the energy conference.

Proven system solutions

One of the wide range of solutions on show at the RWM expo will be the PMSX@pro – Distributed Control System (DCS) by Mitsubishi Electric, supplied and engineered by Mitsubishi Electric's subsidiary company ME-Automation Projects GmbH. This is an example of best-available technology designed and developed as a package for the control of energy from waste facilities and

waste water plants; it is backed up by an impressive installed base and TÜV certification.

Existing customers are complimentary about Mitsubishi Electric's solution, including Mr. Wolfgang Zieger, from leading waste to energy plant operator ESWE BioEnergie GmbH, he comments "Mitsubishi Electric's control system achieves 99.99% availability at our steam boiler plant." He is typical of many well-known energy suppliers who currently trust in the proven and reliable technology of the PMSX@pro solution.

New PMSX@micro DCS solution debuts at RWM

New at the RWM show in Birmingham will be the PMSX@micro version of the DCS package, designed for smaller field based plants. This solution is focused on smaller DCS applications in the field of continuous processes which makes it suitable for a wide range of industries from process to factory applications. Customers will benefit from full-DCS functionality, with added cost-efficiency combined with the technology and field knowledge of a proven and mature solution.

Creating a 'virtual power plant' with multiple generation resources

Managing a combination of power generation sources including variable supply from renewables and coordinating them so that they work as one harmonised virtual power plant is a relatively new challenge, however Mitsubishi Electric already has a solution. The aim at RWM is to demonstrate how to connect diverse and geographically distributed renewable power sources to a Virtual Power Plant providing an affordable, green and steady power supply to consumers.

The virtual power plant solution is effectively enabled by a range of intelligent and extremely reliable Mitsubishi Electric products ranging from low voltage switchgear through variable speed drives, programmable logic controllers (PLCs), human machine interfaces (HMIs) up to medium



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and high voltage power management and switching solutions.

Dag Hoeft, Technical Sales Consultant Process Industry, Factory Automation – European Business Group, Mitsubishi Electric Europe B.V., explains: "There is no readymade solution available for virtual power plants as each scenario around the world is different. Rather every installation is designed to meet individual requirements and is dependent on the specific type and number of control requirements from traditional fuels to renewables as diverse as geothermal, wind, hydro and biomass. The Vertical SolutionsTeam from Mitsubishi Electric however is there to support engineers and help develop solutions that can deliver on the effective management of energy supply resources both today and in the future."

Mitsubishi Electric is also attending the RWM show to underline that the scope of the service it offers extends beyond automation and control, to include more than just the provision of technology: Mitsubishi Electric actually offers a full range of Engineering Services from FEED (Front End Engineering Design) studies through to life time maintenance support.

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, Industrial Automation – UK Branch is located in Hatfield, United Kingdom. It is a part of the European Factory Automation Business Group based in Ratingen, Germany which in turn is part of Mitsubishi Electric Europe B.V., a wholly owned subsidiary of Mitsubishi Electric Corporation, Japan.

The role of Industrial Automation – UK Branch is to manage sales, service and support across its network of local branches and distributors throughout United Kingdom.

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