

Preview IFAT exhibition, May 30 – June 3, 2016, Munich fairground

Making optimum use of sewage, waste and renewable resources

Ratingen, Germany 21.4.2016

Mitsubishi Electric will be presenting its comprehensive engineering expertise as a provider of complete solutions for water, sewage, waste and raw materials management at IFAT 2016 (Hall A5.243). Numerous successfully implemented turnkey and customised EI&C projects, such as water/sewage systems as well as solutions for producing energy from waste, biomass or biogas will be demonstrated. Topics such as system migration and modernisation, energy management, condition monitoring in real time, preventive maintenance, safety and security as well as data capture and analysis in distributed systems are becoming increasingly important in this field.

On its stand at the trade fair, [Mitsubishi Electric](#) will be presenting a range of solutions, including the [DCS system PMSX@pro](#) from its subsidiary [ME-Automation Projects GmbH](#). The TÜV-certified process control system combines the very latest technology in a single package for full reliable process control in [sewage treatment and waste incineration plants and many more industry applications](#).

In addition, visitors will be able to find out about the powerful and flexible [Mitsubishi Adroit Process Suite \(MAPS\)](#), a life cycle software tool for providing added value along the whole value chain. MAPS runs throughout all the stages of the project plan as an integrated software package.

All solutions have integrated alarm and event management functions. They reliably record events and messages, making process flows easy to track if a problem occurs or if changes are made. Integrated maintenance and analysis functions facilitate the evaluation of process data and the improvement of system performance.

Virtual power plants

There is no "one size fits all" solution for virtual power plants. Instead, each plant is developed individually based on the relevant requirements. As conventional energy sources and renewable energy sources such as geothermal heat, biomass, wind energy and hydropower can be used in parallel, the method of control and the number of control requirements are also determining factors. At IFAT, Mitsubishi Electric will be demonstrating how the company can [support customers to develop effective energy management](#).

Hybrid Power Source (HPS) technology

An ideal energy management system is able to compare energy sources with each other in real time, to select the most favourable one in each case and to switch between providers without interrupting operation. The [new Hybrid Power Source \(HPS\)](#) solution optimises energy consumption and enables various energy sources to be used at the same time automatically. In the process, the use of the most favourable energy source in each case will be maximised. For instance, installing HPS technology at a water pumping station has led to energy savings of more than 30 per cent with an ROI of just over three years. In the process, the HPS system primarily uses solar energy produced at the station. Mains power is only used if required.

Condition monitoring in distributed systems

The perfect condition monitoring solution would be one which is combined with energy monitoring. That would enable the system to be optimised while keeping costs and downtimes to a minimum. Condition monitoring includes the recording of wear of parts which can lead to increased energy consumption. In order to keep the overview of distributed systems too, Mitsubishi Electric offers intelligent remote terminal units – [smartRTUs](#)– which can be used to connect external stations to a central process control or SCADA system virtually in real time.

Find out more about how Mitsubishi Electric's complete solutions can benefit your company at IFAT 2016, Hall A5.243.

Note:

Find out how Mitsubishi Electric can meet today's requirements for automation: eu3a.mitsubishielectric.com/fa/en/solutions

Image captions:



Picture 1: The new Hybrid Power Source (HPS) technology solution is the result of energy management expertise combined with Mitsubishi Electric's proven automation technologies.

[Source: Mitsubishi Electric Europe B.V., Thinkstock]



Picture 2: MAPS collects and updates information automatically in the course of a project. So up-to-date system status reports can be generated automatically at any time.

[Source: Mitsubishi Electric Europe B.V., Thinkstock]



Picture 3: A large projection screen supports operator guidance and provides process overviews and video windows at a glance. The open structures of the PMSX®pro control system enable coupling to SAP/R3 and higher-level hierarchies.

[Source: ME-Automation Projects GmbH]

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Note to Editor: if you would like the text in another language please contact Philip Howe at DMA Europa – philip@dmaeuropa.com.

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 129,000 employees the company recorded consolidated group sales of 36.0 billion US Dollar* in the fiscal year ended March 31, 2015. 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 120 Yen = 1 US Dollar, Stand 31.3.2015 (Source: Tokyo Foreign Exchange Market)*

Further Information:

eu3a.mitsubishielectric.com/fa

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Press contact:

Mitsubishi Electric Europe B.V.

Factory Automation European Business Group

Monika Torkel

Expert Marketing Communications

Mitsubishi-Electric-Platz 1

40882 Ratingen, Germany

Tel.: +49 (0)2102 486-2150

Fax: +49 2102 486 7780

Monika.Torkel@meg.mee.com

PR agency:

DMA Europa Ltd.

Mr. Roland Renshaw

Europa Building, Arthur Drive, Hoo Farm Industrial

Estate, Kidderminster, Worcestershire, UK

Tel.: +44 (0)1562 751436

Fax: +44 (0)1562 748315

roland@dmaeuropa.com

www.dmaeuropa.com