

Preview press release POWER-GEN Europe, 21-23 June 2016,
Milan

Building a predictable future for power generation

Ratingen, Germany 15th of June 2016

The power generation industry is facing up to increasingly demanding challenges, driven by requirements for increased flexibility, greater efficiency and improved predictability. At POWER-GEN Europe, Mitsubishi Electric will be showing visitors how its proven, safe and reliable solutions can address these key themes in the energy market.

A picture of today's power generation sector is an industry where outages need to be reduced, where increasingly stringent legislative targets must be met and where greater levels of renewables have to be integrated. This includes the recent update to the EU's energy targets, which include a 20% cut in greenhouse gas emissions, a 20% share for renewable energy and a 20% improvement in energy efficiency, all by 2020.

A 2030 climate and energy framework then calls for even more action in the following decade, reducing greenhouse gases by 40%, creating a 27% share for renewables and achieving at least a 20% improvement in energy efficiency compared to those of 1990.

Effective control and automation holds the key to addressing these and other challenges within the power generation industry, and [Mitsubishi Electric](#) offers comprehensive solutions for the whole sector. That includes customers who are managing existing plants, constructing a

new plant, upgrading an existing plant, or working to integrate and balance a number of different energy sources.

With an unrivalled portfolio of proven and reliable technologies, Mitsubishi Electric offers solutions from individual automation and electrical products right up complete plant control systems, with EIC accredited installation capabilities.

Proven in power generation facilities across the world, and built on decades of world class R&D and unrivalled solutions development, the Mitsubishi Electric name is trusted to deliver. The highest levels of reliability, efficiency, safety and predictability, plus maximising asset availability while minimising waste are the targets.

In this way Mitsubishi Electric is able to meet the needs of plant owners, maintenance providers or EPC suppliers for new plants. Mitsubishi Electric solutions cover everything from MV (Medium Voltage) inverters and switchgear, to power plant automation and control solutions for new build and retrofit projects, to turbine control systems, to a full virtual power plant control solution.

All of which will be represented on the company stand 3HG39 at POWER-GEN Europe 2016 exhibition in Milan, Italy from 21st – 23rd June.

Solutions for the Power Industry:

[PMSX@pro](#) is Mitsubishi Electric's Plant Automation and control solution for the power generation industry, meeting the needs of both new build and retrofit projects. PMSX@pro is built on Mitsubishi Electric's market leading expertise in and experience with PLCs and distributed control systems.

Mitsubishi Electric MV inverters and switchgears are designed to offer highly reliable and efficient industrial MV panel/cabinet solutions to the power industry, bringing unrivalled levels of efficiency and innovation to the power market from the bottom up. The full range of Mitsubishi Electric switchgear will be demonstrated on the company's stand for the first time at POWER-GEN Europe.

For operators of steam turbines, Mitsubishi Electric has developed the Turbiset control, protection and simulation system, developed to provide a simple upgrade path for Turbines that may already have been in operation for a decade or more and which could have an expected life of some 15-20 years to come. At any point in the turbine's life, operators can update the control system to current standards, delivering improved efficiency and reliability.

Finally, highlighting its ability to meet the needs of operators to integrate and balance a range of different power sources into a large site or the grid, Mitsubishi Electric will be demonstrating its VPP ([Virtual Power Plant](#)) on its stand at POWER-GEN Europe.

Addressing the impact of the introduction of renewables, the ageing of large power plants, and the instability of oil and gas prices, VPP provides an effective system which is able to balance numerous variables in order to achieve an overall more predictable and stable supply system with the least possible cost of power generation. Mitsubishi Electric will have a working, interactive VPP running on its stand, highlighting how this 'futuristic' technology can actually meet industry requirements today.

Note:

See how Mitsubishi Electric is able to respond to today's automation demands:

eu3a.mitsubishielectric.com/fa/en/solutions

Image Captions:



Image 1: PMSX[®] pro is Mitsubishi Electric's Plant Automation and control solution for the power generation industry, meeting the needs of both new build and retrofit projects.

[Source: Mitsubishi Electric Europe B.V., Thinkstock, ME-Automation Projects GmbH]



Image 2: For operators of steam turbines, Mitsubishi Electric has developed the **Turbiset** control, protection and simulation system, developed to provide a simple upgrade path for Turbines that may already have been in operation for a decade or more.

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



Image 3: Mitsubishi Electric **MV inverters** and switchgear are designed to offer highly reliable and efficient industrial MV panel/cabinet solutions to the power industry.

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



Image 4: Mitsubishi Electric will be demonstrating its **VPP Virtual Power Plant** on its stand at POWER-GEN Europe. VPP meet the needs of operators to integrate and balance a range of different power sources into a large site or the grid,

[Source: Mitsubishi Electric Europe B.V.]

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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 ME-Automation Projects GmbH

ME-Automation Projects GmbH is a sister company of Mitsubishi Electric and a member of the Mitsubishi Electric Group. It supplies complete, turnkey process automation systems consisting of complete field instrumentation, switchgear, remote process control with the PMSXpro process control system, and corresponding services such as project management, engineering, installation, commissioning, service and maintenance.

For further information see:

www.me-ap.de

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 135.000 employees the company recorded consolidated group sales of 38.8 billion US Dollar* in the fiscal year ended March 31, 2016.

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 113 Yen = 1 US Dollar, Stand 31.3.2016 (Source: Tokyo Foreign Exchange Market)*

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