

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

Controlling and protecting steam turbines

RWM exhibition, Birmingham, 15.-17.9.2015

Turbiset® Steam Turbine Control and Protection solution can be used with any manufacturer's turbine, and is being demonstrated on Mitsubishi Electric's exhibition stand (C50-D51 – in hall 4) at this year's RWM exhibition.

Almost all large-scale power stations use steam or gas turbines to generate electricity for export to the grid. Often (esp. in EFW plants) there is a secondary function in CHP (combined heat and power) configured power plants to convert high-pressure steam so that it is usable for generating heat (or cooling) for local residents and/or industrial plants.

As such, steam turbines play a key role in energy plants – and they must be optimally controlled to extract the maximum energy from the steam. Probably as important as ultimate efficiency, is the fact that steam turbines are mission critical equipment, hence they must be rigorously protected to ensure that they remain reliable, safe and continue to operate 24/7.

Turbine damage must be avoided at all costs because repairs to steam turbines usually take months, during which time plant operation can be significantly reduced or even curtailed completely. Worse than not earning money, idle steam turbines can also cost the owners/operators money, if contract agreements cannot be met.

Turbiset[®] Steam Turbine Control and Protection solution provides an answer to all of these issues and is independent of the original manufacturer of the turbine. It combines optimal control strategies, and up to triple-redundancy protection PLCs as standard to ensure turbines operate efficiently and reliably to generate maximum revenue. The architecture of the PLC network is designed so that the turbine remains completely protected, even if one of the three protection PLCs requires replacement.

Turbiset[®] is available for new turbines, but also provides an excellent upgrade path for existing turbine control systems. Before a Turbiset[®] package is installed, it simulates the turbine and associated systems to 100% pre-validate the control system - thus ensuring reliable, optimum control and critical protection of the steam turbine when it is recommissioned and brought online. Simulations can be seen by visitors to Mitsubishi Electric's RWM 2015 exhibition stand (NEC Birmingham, Hall 4 – stand C50-D51 from 15-17 September).

Image caption:



Picture 1: Turbiset[®] Steam Turbine Control and Protection combines optimal control strategies, and up to triple-redundancy protection PLCs as standard to ensure turbines operate efficiently and reliably to generate maximum revenue.

[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.

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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)*

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Visit us in Hall 4-5, Booth No 4C50-D51

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