

## **“Energy Control Pack” from Mitsubishi Electric ensures stable energy supply**

**Mitsubishi Electric’s “Energy Control Pack” (ECP) is a solution for ensuring a stable energy supply for production. The ECP enables a wide range of energy-related information from automation systems to be collected and displayed, thus providing an accurate overview of the energy usage of individual machines or drives. Units that are not required urgently can be switched off based on this data analysis while relevant information can be utilised during production planning. This process stabilises the energy supply and brings unity, especially in complex systems encompassing various locations.**

Energy management is not only important for discrete production. Bottlenecks within the energy supply at critical points within batch processes can result in an entire batch being lost and in some cases, can cause damage or even the failure of whole production systems. Christoph Behler, Senior Business Development Manager at Mitsubishi Electric Europe B.V., explains: “Disruption of the energy supply for the burning process at a sintering plant, for example, can result in the loss of an entire batch or even shut down the plant. In the food processing industry, whole batches would have to be destroyed if data relating to power failures was not recorded. That is why it is of fundamental importance to have an integrated, holistic, energy management approach like the one provided by the ECP for new or existing systems in the process industry.” The ECP can be used as a monitoring tool in order to improve plant as well as production reliability. It gives companies a clear competitive advantage by avoiding the lower production volumes, the generation of waste and the higher energy costs and total costs that can be caused by an energy failure.

The information provided by the ECP via the local control panel can be stored in databases and transferred to higher level information systems, making it possible to determine and control the energy costs for each machine or production unit and to avoid peak loads. Regenerative energy production facilities or systems for other energy-related media such as compressed air, gas, oil and water can also be integrated in the system. The ECP creates the ideal conditions for optimising values throughout, increasing production efficiency, reducing maintenance and service costs and consequently giving a company a competitive edge.

Mitsubishi Electric has gained comprehensive experience in applying the ECP across a wide range of industrial sectors. "Users often start with one production area and then reinvest the savings in gradually expanding the scalable ECP effectively providing a form of start-up finance enabling the optimisation of energy production to be carried out in stages", explains Behler. Up to now, users have managed to reduce peak loads by 8-30 per cent and drive down energy costs by 5-15 per cent, with an average peak load reduction of 13 per cent. The mean amortisation period of the ECP is ten to eleven months.

Developed by Mitsubishi Electric and its partners from the e-F@ctory Alliance, the ECP provides individual solutions and concepts for efficient energy management. Three different basic versions are available for complex systems: with the simplest configuration, ECP COMPACT, around 80 per cent of the functions are predetermined while approximately 20 per cent are freely definable. The second version, ECP MODULAR, consists of separate, individually configurable function blocks. The most complex system, ECP OPEN, is tailor-made by developers and adapted to suit each individual application based on the results of a feasibility study.

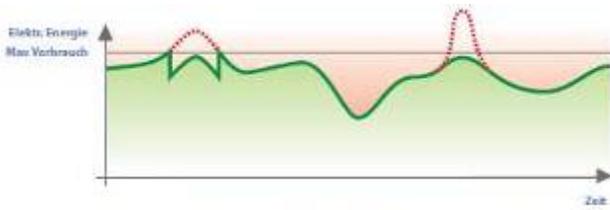
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**Photos:**



Energiekosten lassen sich bei den verschiedensten Anwendungen reduzieren.

Fig. 1\_Applications: Energy costs can be reduced for a wide range of applications, e.g. heating, compressor and air-conditioning systems.



Der Energieverbrauch kann, gemessen über die Zeit, vermehrt und Leistungspitzen wirkungsvoll begrenzt und beherrscht werden. Hierdurch lassen sich Kosten für zu hohen Energieverbrauch minimieren und Bausperrisse vermeiden.

Fig. 2\_Load profile with peak loads: The load profile shows how energy usage can be measured and reduced over time. Peak loads can be limited and managed, thus enabling excessive energy usage costs to be kept to a minimum and higher base amounts to be avoided.

## **About Mitsubishi Electric**

With 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 114.000 employees the company recorded consolidated group sales of 32,2 billion Euro in the fiscal year ended March 31, 2011. Our sales offices, research & development centres and manufacturing plants are located in over 30 countries.

Mitsubishi Electric Europe, 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.

Further Information:

[www.mitsubishi-automation.com](http://www.mitsubishi-automation.com)

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