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Efes Otomasyon relies on Mitsubishi Electric for HVAC automation solutions

FAST, SAFE AND EFFICIENT AUTOMATION

Efes Otomasyon, a company that provides project design, PLC programme, Scada software and electrical contracting services on smart buildings and houses, energy, lighting and HVAC automation in addition industrial automation, relies on Mitsubishi Electric's fast, safe, smooth and efficient automation systems.

Efes Otomasyon offers engineering, material, sales and after-sales technical support services for electrical, contracting and automation activities undertaken for various domestic and international projects since 1999. In that respect, Efes Otomasyon is quite aware that choosing appropriate products is the first step for providing an appropriate automations solution. Thus, Efes Otomasyon preferred Mitsubishi Electric for HVAC automation of Şekerbank Head Office in its latest contract.

As Efes Otomasyon was contracted mechanical, energy automation, load input, load shedding, SCADA, synchronization and lighting automation of Şekerbank Head Office in collaboration with Promesa İnşaat, Efes Otomasyon General Manager Suat Olgun told that they were able to attain the efficiency targets which were of critical importance for the project by using HVAC automation solutions provided by Mitsubishi Electric. Olgun made the following explanation regarding HVAC automation solutions provided for Şekerbank's head office building in Levent:

“Choosing right and efficient products”

“Efes Otomasyon provides automation systems that are capable of performing heat, humidity and pressure controls. Automation systems enable the enterprises to condition any given location based on blowing and cycling rates ascertained as a result of heat and humidity controls. That eliminates disturbing heat blows as well as unnecessary and excessive heat loss. Automation system also plays an important role in maximizing energy saving by conditioning the ambient temperature with the interior space if the ambient conditions are convenient. The activities performed in spaces

requiring positive, negative or neutral pressurization contribute to more comfortable working conditions. Besides, heat and pressure is checked for the entire mechanical system (boiler, chiller, pumps etc.) in order to ensure energy efficiency and control for those systems and operators are able to monitor the operating and failure details and respond to the system whenever necessary thanks to the automation infrastructure. We take care to choose the right products that shall provide the efficiency needed for those solutions.”

“We prefer Mitsubishi Electric for a smooth solution”

Efes Otomasyon’s latest project, Şekerbank Head Office, is located in an 11-storey building which is quite large making it necessary to establish a seamless automation system that would accelerate the communications between the systems.

Olgun said: “An important reason for preferring Mitsubishi Electric’s high quality equipment was that we had a very challenging task which was to collect data from various points and gather them at a single point in such a large building. In that respect, Efes Otomasyon decided to use Mitsubishi Electric’s **Q Series PLC, CC-Link remote I/O and FX PLC** products at Şekerbank Head Office. We use 2 master Q series PLC devices to ensure lighting control at each of those 11 storeys while using Slave CC-Link remote I/O’s for the communications infrastructure so as to collect information from each storey. FX PLC ensured a number of main panel operations including generator synchronization, load input to the grid, load shedding and energy automation of the building and CC-Link communications protocol of master Q series PLC provided the necessary connection.

“We acquired great advantages in terms of solutions and costs as Master PLC and Ethernet enabled the ventilation system of the building to form communication with the HVAC automation solution and CC-Link communications infrastructure without the requirement to install CPU at any point. Besides, CC-Link remote I/O made it possible to guarantee maximum efficiency even in the remotest sections and another advantage was that it was quite easy to install. We focused on providing optimum comfort and efficiency at all parts of the building as we designed HVAC automation for the project.”

Significant contribution to energy saving...

Olgun underlined that Mitsubishi Electric's HVAC automation solutions make significant contributions to energy saving with respect to heating, cooling and lighting processes:

"We are aware of the importance of undertaking projects focused on energy efficiency for the benefit of the investors in addition to the national economy, environment and our own future. By using Mitsubishi Electric's HVAC automation solutions, we shall be able to take return on investment within 3 to 5 years. Mitsubishi Electric enables us to perform seamless, fast, safe and efficient projects with the high quality products as well as after-sales services it provides. Mitsubishi Electric automation solutions help us minimize the risks and provide optimum solutions leading to successful project which guarantee high customer satisfaction."