

Massachusetts Municipal Wholesale Electric Company

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1017 Case Study 12/2015

Project Details

Electronic Environments completed a design/build project for the Massachusetts Municipal Wholesale Electric Company (MMWEC), a local non-profit, public corporation that serves the Commonwealth of Massachusetts. Because the MMWEC had limited information technology (IT) space, EEC elected to utilize a Liebert® SmartRow™.

The SmartRow closed architecture system consolidated the client's information technology equipment to improve efficiency and energy savings. The IT room had previously been served by a 15-ton computer room air conditioner and an oversized uninterruptible power system (UPS). The SmartRow system uses the latest in high efficiency HVAC, UPS and fire suppression systems, integrated into one standardized rack system. The SmartRow system improved efficiency and reliability of their IT systems, and also enabled the client to have future flexibility. The major improvements in cooling and power supply technology have reduced their on-peak and off-peak power consumption. The newly designed system is expected to result in reduced costs for preventive maintenance and remedial services because of higher system reliability.



EEC supplied the customer with the data on equipment energy consumption reduction so that they could apply for a rebate with Eversource, the local power utility. An efficiency rebate of \$23,156 was issued due to the expected energy savings derived from this installation. This rebate was based upon the energy savings from the equipment, which also brings greater efficiency to the client's operations. Energy savings are estimated at 96,436 kilowatt hours with peak savings of 11 kilowatts.