

Schneider Electric Case Study

Upstate New York Hospital

New York, USA



Upstate New York Hospital Protects Sensitive Equipment From Voltage Fluctuations and Avoids Critical Downtime with SureVolt Automatic Voltage Regulation

By Schneider Electric

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The Challenge

When a large regional hospital in upstate New York needed to protect mission-critical equipment and processes, they turned to a power-quality product and solution provider in Fairport, New York.

The hospital outlined a number of challenges it faced in its efforts to preserve and protect its medical imaging equipment and, more importantly, the integrity of the resulting medical images.

Medical imaging equipment is, by nature, sensitive equipment. For one, it requires a sizeable inrush of high-impulse currents during use. At the same time, the voltage feeding must be controlled to within very narrow specifications (typically 2% of connected line voltage during peak inrush) in order to keep the high-voltage components functioning properly. Last, but not least, medical imaging equipment must be noise-free (less than 0.5 volts neutral to ground) and disruption-free during utility voltage sags to avoid impacting image quality and patient diagnosis.

The Solution

It was recommended the hospital install SureVolt™ electronic voltage regulator/power conditioners. SureVolt would provide the hospital with the broadest range of protection against voltage fluctuations, as well as the proper overload capacity for its inrush-current requirements. At the same time, it would provide consistent voltage regulation and fast correction without recurring maintenance or moving parts.

SureVolt is not only providing the facility's imaging equipment with reliable voltage regulation, it's also eliminating the noise artifacts that can wreak havoc on medical images and the critical patient diagnoses made from those images. SureVolt prolongs the hospital's imaging equipment life and reduces machine downtime. This ensures that the imaging equipment is running at all times to keep pace with the hospital's heavy scheduling requirements.



“The hospital has had zero power-quality issues since installing the SureVolt.”

The Results

“The hospital has had zero power-quality issues since installing the SureVolt. That has made a very positive impression on both the facilities and imaging staffs, which has led to continued requests for additional projects,” said a project manager with the power quality solution provider.

Customers are happy with SureVolt for other reasons, as well. When a medical facility buys and installs expensive imaging equipment, it is almost always required to include a large power-protection device. Purchasing that equipment from the imaging-equipment vendor usually means a hefty markup for equipment that often does not address the extensive inrush current or provide the same capabilities as SureVolt. It allows for much smaller solutions in terms of physical size and are often half the cost of the alternatives.

SureVolt Automatic Voltage Regulator Benefits:



Keep sensitive medical equipment noise and disruption-free for accurate patient diagnosis



Maintain equipment and power reliability, minimize downtime



Extend equipment life span



Space-saving solution



Protect against damaging voltage fluctuations

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