Partners Healthcare Data Center

DATA CENTER ENERGY EFFICIENCY TREATMENT

ENGIE Services U.S. (ENGIE) performed a comprehensive energy analysis for Partners Healthcare in Needham, MA. ENGIE analyzed the data center operations of Partners Healthcare, a Boston-based non profit healthcare provider with several teaching hospitals including Massachusetts General Hospital and Brigham & Women's Hospital.

The 14,000 sq. ft. data center in Needham, MA greatly benefited from a new central control system which was implemented to monitor various items, including uninterruptible power supply (UPS) panels, power distribution units (PDU), and electrical wiring systems.

THE PARTNERSHIP

During previous projects, ENGIE had completed lighting and efficiency energy work at Partner's Healthcare's offices, garages, and other areas. For the mission-critical data center, ENGIE worked closely with Partners Healthcare to design a customized system specific to its needs. Intricate measures such as temperature monitoring and controls were installed to allow for specific temperature information to be gathered down to the rack level, as well as remote control of computer room air conditioning (CRAC) units and chilled water systems.

3 DIMENSIONS OF IMPACT

ENGIE is committed to building three dimensions of impact in every customer's future:

Supporting People

- Training and education of personnel increased understanding and control over the mission-critical data center systems.

Program Summary

- Installed central control system to monitor UPS panels, PDUs, and electrical wiring systems, installed temperature monitoring and controls to gather specific temperature information down to rack level.

Energy Efficiency Measures

- Controls
- HVAC

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Saving Money

- ENGIE's team continually delivered value, savings, and an impressive ROI to Partners Healthcare, without compromising sensitive operational processes.

Protecting the Environment

- Partners Healthcare is committed to environmental sustainability, and was a founding member of the Healthier Hospitals Initiative, a coalition of major health systems across the U.S. that have come together to improve sustainability and safety in health care. The upgrades in the data center represent a significant reduction in greenhouse gas emissions and further support efficient, sustainable operations with the combination of HVAC, active air flow management, and building automation system (BAS) controls.