



Amgen



The Optimum Energy solution is providing Amgen with 33% plant efficiency improvements, annual energy cost savings of \$990K, and crucial visibility into plant operations.

Opportunity

- Amgen's Thousand Oak Campus occupies 3.7 million square feet of building space on 120 acres
- Needed holistic chilled water system optimization solution for three chiller plants in addition to BAS upgrades

Solution

- OptimumLOOP® technology continuously and dynamically adapts to fluctuating load, weather and occupancy conditions to yield the lowest possible chilled water system kW/ton
- Through web applications and engineering technical support, the new system provides chilled water system transparency, trending, data rationalization, automatic measurement and verification, and fault detection and diagnostics

Results

- Average efficiency rating: Improved by 33%
- Total annual energy savings: 11 million kWh
- Total annual cost savings: \$990,000
- OptiCx® software increased visibility into plant operations:
 - Led to the discovery of highly inefficient lead plant that now rarely operates

ABOUT OPTIMUM ENERGY

Since 2005, Optimum Energy has helped customers in healthcare, higher education, and other industries reduce energy use in buildings, delivering typical energy savings of 30 percent, improved operating efficiency and reduced carbon emissions. The OptiCx® platform combines technologically advanced HVAC optimization software with world-class expertise in system design and operations. It has saved current customers more than 500 million kilowatt-hours of electricity, 288,000 tons of carbon emissions, and over 100 million gallons of water to date.