



# 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 M 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

Optimum Energy provides a proven solution that delivers significant and sustained efficiency gains of up to 50% in HVAC systems. The OptiCx Platform combines technologically advanced HVAC optimization software with world-class expertise in system design and operations. It's a proven, systematic, and scalable approach that reduces resource usage—water, electricity, and people—while providing detailed insights into how building systems operate in real time. The result is vastly improved operating efficiency, which further increases savings, and importantly reduces overall carbon emissions. For more information please visit [optimumenergyco.com](http://optimumenergyco.com).