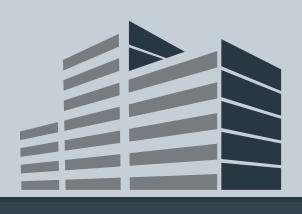


## **Increasing Data Center Performance through Optimization**



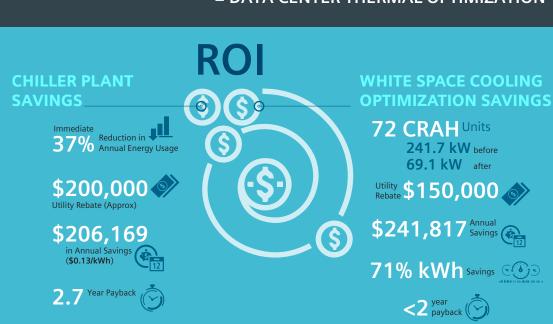
#### **CHALLENGES**

A financial services firm had an inefficient data center that was challenged with:

- A lack of adequate sensing technology which required overcooling of the data halls (white space)
- High energy costs
- Inadequate visibility into infrastructure and cooling operations
- Under-used free cooling
- Inefficient operations in their oversized data center

1+1=3

CHILLER PLANT OPTIMIZATION
+ WHITE SPACE COOLING OPTIMIZATION
= DATA CENTER THERMAL OPTIMIZATION





37% 42%

Amount of additional energy savings that was realized at the chiller plant following white space cooling optimization and due to reduced chiller plant pumping.

#### THE RESULTS

#### 20-30% run time versus 100%

Cutting the run time of CRAH units by more than half helped extend useful asset life in the data center and reduce wear and tear on the

#### Greater operational reliability

ran as needed, independent of one another, instead of running 24/7 simultaneously.

### Additional free cooling

Thermal optimization allowed for chilled water temperatures to run warmer and free cooling to run longer

# Greater cost savings and efficiency

Data center thermal optimization allowed for more insight and data to run the plants more efficiently, resulting in improved efficiency, uptime, and thermal stability

Learn more >