

**THE ONLY DATA CENTER COOLING SPECIALISTS WHO CONSULT AND DELIVER TURNKEY SOLUTIONS FOR LEGACY CRITICAL FACILITIES.**

We enable companies to be better environmental stewards by reducing data center cooling energy consumption and greenhouse gases.

**COOLING OPTIMIZATION WITH VERIFIABLE ENERGY REDUCTION**

Right-size your data center cooling capacity and improve airflow management to reduce energy costs by 20-35%. This represents not only significant cost savings, but substantial improvements to the thermal conditions of IT equipment.



data center cooling optimization



cooling energy efficiency audit



energy conservation measures



critical facility airflow modelling

**SERVICES**  
*with measurable results!*



critical facility design consultation



best practice training



incentive program management



OPEX efficiency program

**6,005,025 kWh**

reduction in clients' cooling energy use



**\$752,608**

reduction in clients' cooling energy costs



**\$600,503**

energy incentive payments recieved by clients



**CALL NOW**

**1-866-831-4775**

info@sct-inc.com  
www.sct-inc.com

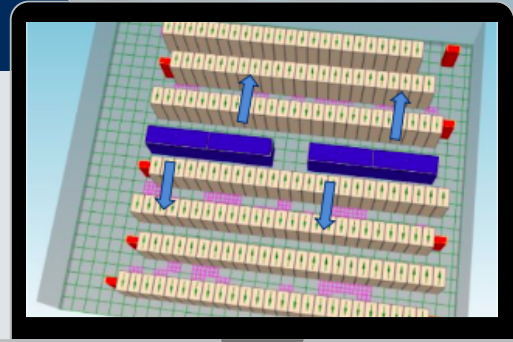
## CASE STUDY

# DATA CENTER COOLING OPTIMIZATION

### SITE OVERVIEW

A small space with 171 racks covering 3,100 sq.ft. The data center had a raised floor and a high open return ceiling, with 4 mixed vintage DX Liebert downflow cooling units in the middle of the space. The units were networked, operating with a lead lag schedule, and controlled by return air temperature.

**Stakeholder Criteria:** reduce energy consumption, maximize incentives



### COOLING OPTIMIZATION PROGRAM



Airflow Management

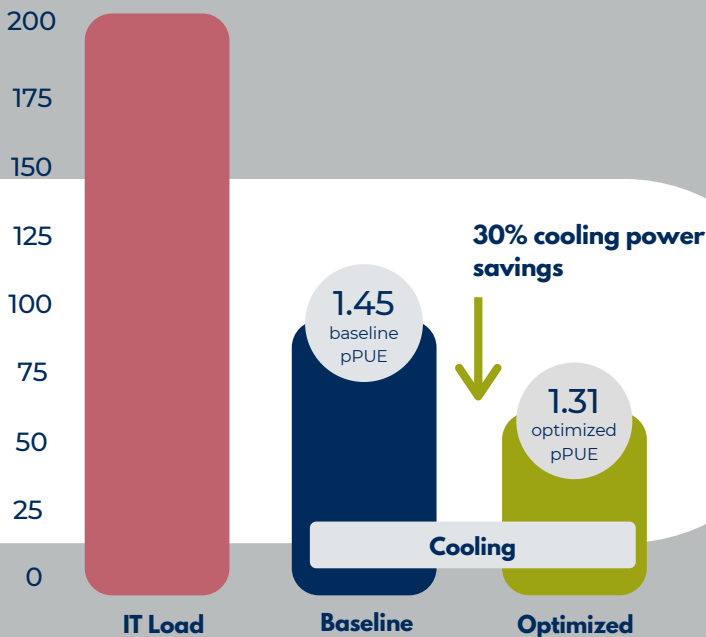


Technology Upgrade



Operational Settings

### OPEX PERFORMANCE DATA CENTER POWER USE



**233,324 kWh**

Cooling Energy Reduction

**\$32,665**

Annual Cooling Energy Cost Reduction

**\$23,332**

in energy incentives

### CAPEX INSIGHT

Available Cooling Capacity:

**92 kW**  
(26 tons)

**25%**  
Cooling Capacity Increase

**130 kW**

Estimated Room for IT Load Increase

