

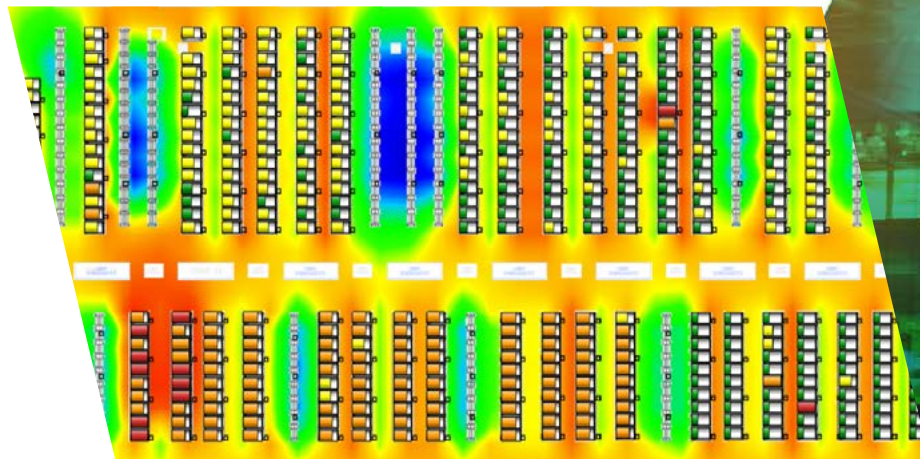
PANDUIT[®]

SynapSense[®]
Cooling Optimization
ROI Success



Turnkey Approach to Energy Savings

Working closely with our customers, we begin by conducting an assessment to quantify ROI, including the utility incentive, energy savings, CO₂ reduction and payback period.



TURNKEY SOLUTION

SynapSense®
Optimization
Platform



Cooling Equipment
Review and
Recommendations



Air Flow Balancing
and Remediation



Environmental
Monitoring
Livelighting™



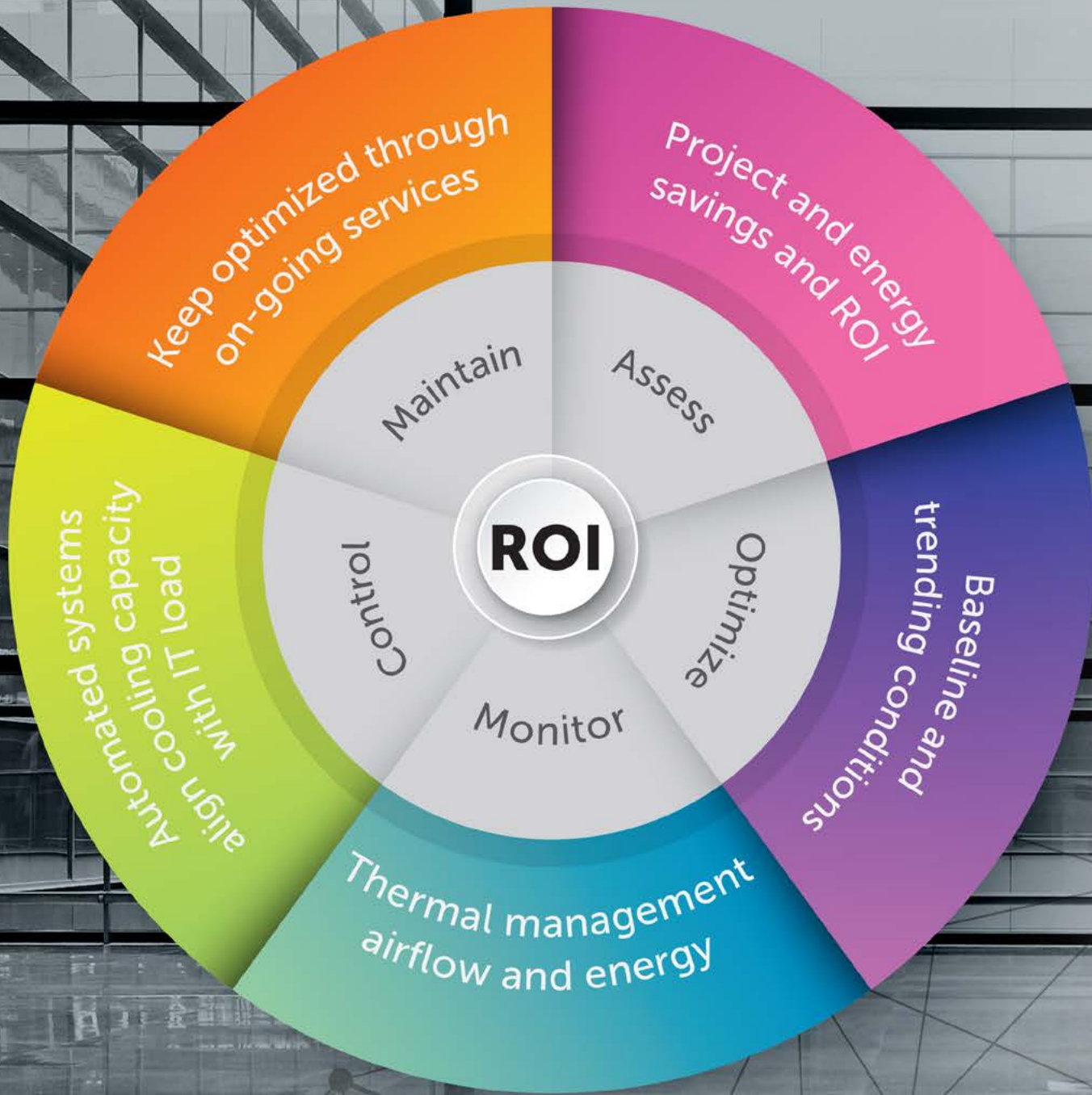
M&V Government
Utility Rebate



Control and PUE
Implementation



Energy
Baseline



ROI

As a market leader in comprehensive environmental management, the SynapSense® Wireless Monitoring and Cooling Control Solution delivers tangible ROI for customers realized through verifiable energy savings and paid utility incentives.

Case Study: Fortune 50 Company

SynapSense® Solution Deployed: Monitoring Optimization Services, SynapSense® Active Control™ Solution

- 100,000 Sq. Ft.
- 3,674 sense points
- Project cost: \$695,000.00
- Annual energy savings
 - \$766K
 - 8,244MWh
- \$530K paid utility incentive
- Net customer cost: \$165K
- Annual carbon abatement: 2,555,840 lbs CO₂



Case Study: Wall Street Investment Bank

SynapSense® Solution Deployed:

- Environmental Monitoring and Optimization Services
- 5X higher pressure than before floor rebalancing using SynapSense® System
- Savings and Payback Exceeding Preliminary Estimate!

Projected Savings & ROI Analysis	Projected	Actual
Annual Energy Savings (MWh)	258	302
Fan Energy (MWh)	168	209
Chiller Energy (MWh)	90	93
Carbon Abatement (Metric Tons)	135	158.1
PUE Baseline (1.65)	1.57	1.56
Project Cost	\$70,500	\$70,500
Annual Energy Savings	\$28,412	\$33,263
Maximum NYSERDA Incentive	\$36,161	\$48,382
Capped NYSERDA Incentive	\$35,268	\$35,268
Simple Payback (Months)	14.9	12.7

Case Study: Communications Company

SynapSense® Solution Deployed: Monitoring Optimization with PUE and SynapSense® Active Control™ Solution

- 60,000 Sq. Ft.
- 4,300 sense points
- Project cost: \$630,000.00
- Annual energy savings: \$766,000.00
 - Reduced Cooling Energy by 23%
- Received Oncor Rebate of \$75,000.00
- Simple payback (months): 26



Case Study: Colocation Project



First Data Center

SynapSense® Solution Deployed:

Monitoring Optimization Services,
SynapSense® Active Control™ Solution

- >75,000 Sq. Ft.; 3,119 sense points
- Installed VFD's on 54 CRAH units
- Total project cost: \$1,000,000.00
- Annual kWh savings: 3.5M kWh
- Total Energy Savings:
 - \$597,000.00; 11.5%
 - \$597,000.00; 11.5%
- Utility Incentive: \$600,000.00
- Simple payback (months): <1 year

Second Data Center

SynapSense® Solution Deployed:

Monitoring Optimization Services,
SynapSense® Active Control™ Solution

- Total project cost: \$1.5M
- 55,000 Sq. Ft. data center
- Annual kWh savings: 4.9M kWh
- Utility Incentive: \$669,000.00





Achieve High Returns with Wireless Monitoring and Cooling Control

The SynapSense® Wireless Monitoring and Cooling Control Solution is a leading comprehensive environmental management system that enables data centers world-wide to achieve unprecedented energy savings through enhanced performance and reliability. Industry leaders view this platform as the future of environmental monitoring, power and cooling optimization for mission critical facilities. By deploying our fine-grain wireless sensing technologies and cooling automation platform, our customers realize savings up to 50% of their cooling costs (on average, up to 20% of total energy) per year in their data center facilities.



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