

Optimization Services

Delivering Energy Efficiency in Building Systems

COMPREHENSIVE ENERGY OPTIMIZATION SOLUTIONS FROM PREVENTATIVE MAINTENANCE TO RETRO-COMMISSIONING TO CENTRAL PLANT OPTIMIZATION

CM3 Building Solutions has been delivering energy solutions for more than 20 years.

With a team of energy, building automation, and HVAC engineers and specialists, we deliver a range of optimization solutions to improve the performance of the critical and complex systems that control today's smart buildings.

From individual HVAC units to intricately engineered building automation systems, we service, monitor, and optimize the equipment and systems to deliver operational and energy savings across facilities.

As building solutions advance to deliver increasing levels of energy efficiency, this efficiency can only be achieved if all systems are operating correctly. However, the complex infrastructure of buildings combined with their maintenance and actual usage can result in performance that does not achieve its intended design.

CM3's Optimization Solutions are designed to ensure maximum operational and energy efficiency, whether that is periodic maintenance activities or ongoing, monitoring solutions.

With four decades of experience in HVAC and building automation, CM3 provides flexible, customizable optimization solutions for facilities of any size or complexity.

BUILDING OPTIMIZATION SERVICES		
<ul style="list-style-type: none">▫ Retro-commissioning▫ Preventative Maintenance▫ Monitor-based Commissioning	<ul style="list-style-type: none">▫ Air Handling Units▫ Fan Coil Units	<ul style="list-style-type: none">▫ VAV Systems▫ Rooftop Units▫ & Many More
CENTRAL CHILLED WATER PLANT OPTIMIZATION SERVICES		
<ul style="list-style-type: none">▫ Retro-commissioning▫ Central Plant Optimization	<ul style="list-style-type: none">▫ Chillers▫ Secondary Systems	<ul style="list-style-type: none">▫ Pumps▫ Cooling Towers

OUR TEAM OF EXPERIENCED ENERGY MODELERS, COMMISSIONING SPECIALISTS, AND UTILITY REBATE EXPERTS:



Identify

energy & operational opportunities



Calculate

projected energy savings



Recommend

available energy incentives



Deliver

turnkey energy services, from design through installation



Monitor

and optimize building systems continuously



PREVENTATIVE MAINTENANCE

Keep your equipment operating at its best. Flexible, preventative maintenance plans deliver confidence in your equipment. And, auto-scheduling of maintenance visits with email/text notification ensures worry-free, regular inspections. Detailed visit reports identify all maintenance activities undertaken, as well as recommended repairs and replacements for future consideration.

RETRO-COMMISSIONING

Proactively discover the issues that are negatively impacting energy consumption. Our detailed field assessment and expert data analysis identify the corrective actions that are needed, ensuring optimal performance of your building systems and identifying potential problems before they result in downtime. A comprehensive report clearly illustrates each corrective action and its impact on energy savings.

MONITOR-BASED COMMISSIONING

Achieve lasting energy savings through ongoing monitoring of your building. With our monitor-based commissioning solution, you can view your building operations as a whole, collecting and analyzing data continually to ensure consistent peak performance and constant energy savings. Highly affordable and simple to deploy, this solution identifies your building's problem areas and establishes a performance baseline, so you can set targets and benchmark your progress as building systems are optimized to perform together. And, it delivers enhanced analysis capabilities to reveal other potential savings opportunities over time. MBCx also helps verify that savings initiatives are actually meeting targets and identifies potential problems before they become costly maintenance or safety issues.

CENTRAL CHILLED WATER PLANT OPTIMIZATION

A complete central plant control and optimization system that delivers maximum energy savings. Providing optimal HVAC system performance and control through the use of exhaustive search algorithms, identifying the combination of setpoints, equipment sequences and conditioned-space parameters that result in the lowest energy input and/or lowest instantaneous cost of production.

More than just plant controls, this solution implements air-side analytics to identify problematic zones and provide maximized plant reset without impact to air-side performance, resulting in savings superior to other plant-only optimization solutions.

- » Simulation-based optimization delivers an average 20 - 50% annual energy cost savings.
- » Non-proprietary, open, and customizable technology allows for interoperability to all building systems.
- » Performance guarantees provide predictability and repeatability in operating expenses and savings yielding a guaranteed return on investment.

SUPPORTING ENERGY SERVICES



Utility Rebate Identification

Our incentive specialists will uncover the maximum rebates available for your project.



Energy Modeling

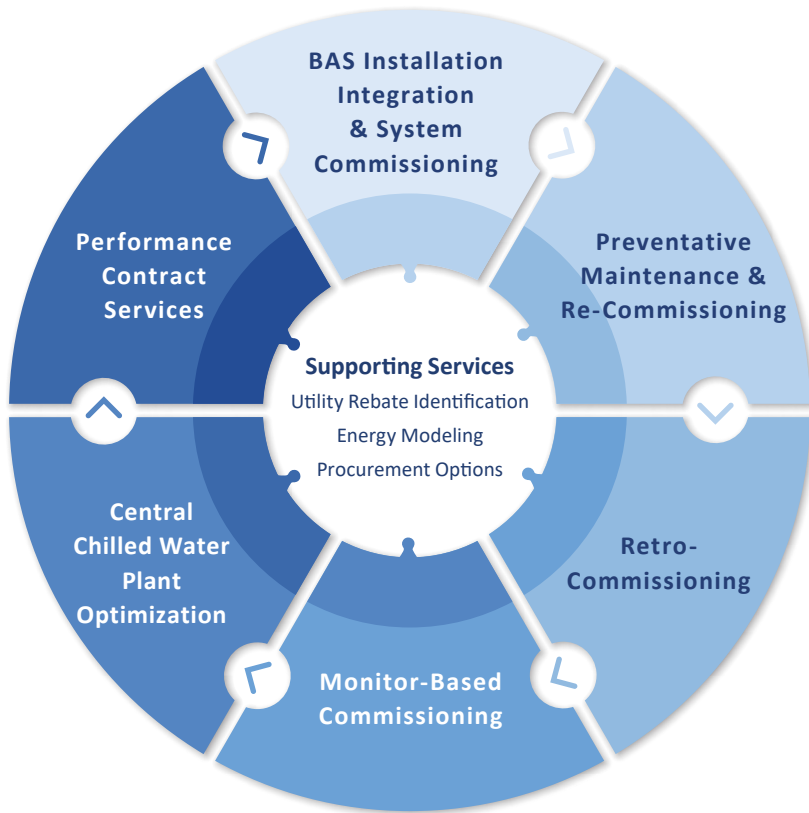
A team of expert energy modelers will project energy savings and determine ROI.



Financing Solutions

Finding financing options is simple through our network of trusted partners.

OUR ENERGY SOLUTIONS PORTFOLIO



We see ourselves as more than your contractor. We are your Energy Consultant, looking beyond the project at hand to deliver long-term facility modernization goals and energy efficiency planning.

LOCAL PROGRAMS

Philadelphia Building Energy Performance - Building Tune-Up Specialist

Philadelphia Electric Company (PECO) - Trade Ally

New Jersey Clean Energy - Trade Ally