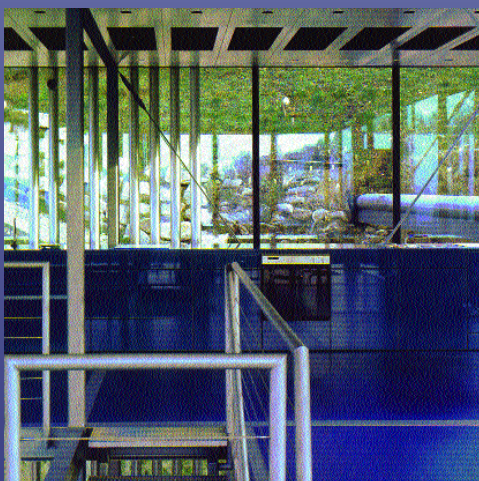


RETROCOM ENERGY STRATEGIES



AN UNIQUE APPROACH

## About Us

At RetroCom Energy Strategies<sup>SM</sup> we focus on increasing energy efficiency, improving occupant comfort and enhancing building operator skills in large, existing buildings. We accomplish this through our unique approach to Retrocommissioning – an approach that enables you to reap the rewards of your project well into the future.

## Real Life Experience

For more than 20 years, the principals of RetroCom Energy Strategies have been evaluating, designing and implementing advanced Energy and Operational improvements in all kinds of facilities. We've worked with Building Operators, Property & Facility Managers, Design

Engineers, Equipment Manufacturers and Industry Specialists. Along the way we've learned some important lessons about what is practical, and what is realistic. We've learned that theory is always more effective when it's backed by real life experience!

## What is Retrocommissioning?

Essentially, Retrocommissioning is "Commissioning" applied to an existing building. It's the systematic evaluation of building systems and maintenance procedures, and it's designed to uncover opportunities for improved operation. To be truly effective, a Retrocommissioning project must continue to deliver energy cost reduction and occupant comfort improvements beyond project completion – it must deliver a sustainable outcome.

## Supported Retrocommissioning<sup>SM</sup>

Supported Retrocommissioning enables our clients to carry on the work we have performed in their buildings, after our project with them is complete. This unique program offers critical skills training, maintenance management support and project measurement & verification functions that deliver the sustained outcomes you should expect from a Retrocommissioning project. Ultimately, we enable your staff to become your on-site Retrocommissioning experts through practical skills enhancement and ongoing project monitoring.



**RETROCOM<sup>SM</sup>**  
**Energy Strategies**

## Improved Operations

Retrocommissioning is a powerful energy conservation and comfort improvement tool but its ongoing value only comes from sustained application. Building systems often return to an "out of tune" state without appropriate maintenance. This normally leads to a resumption of occupant comfort complaints, rising energy costs and ever increasing demands on your maintenance staff to respond – a vicious cycle that simply increases the possibility of building system problems. Improving the operation of your building starts with a well trained staff that understands the importance of maintaining the improvements you gained from your Retrocommissioning project. Numerous

studies have proven that "commissioning based" maintenance of critical building systems saves time, reduces comfort complaints, trims energy costs and frees up in-house staff to focus on issues that are important to your day to day business. Our Supported Retrocommissioning program provides your staff with the critical skills and knowledge they will need to sustain an efficient and comfortable indoor environment in your building.

## Supported Results

If you are like most clients, you want to be certain that your investments in a building system improvement program, actually delivers results. And like most companies,

RetroCom Energy Strategies wants to deliver those results. That's why our approach includes support, beyond the completion of your project. Our post-project plan includes a full year of energy conservation measurement and building operator skills support.

- Ongoing Systems Monitoring
- Energy Engineering Support
- Maintenance Support
- Quarterly Energy Reports
- Quarterly Maintenance Reports

Our objective is simple – ensure that your investment continues to deliver value well beyond the completion of your initial Retrocommissioning project.

## Utility Cost Reduction

Most buildings today are operating inefficiently. And no matter how effective you believe your operations and maintenance processes to be, research shows that opportunities to reduce energy consumption in your building exists right now. Retrocommissioning is a highly effective energy conservation tool - in some cases delivering 25% reductions in energy consumption with simple paybacks as low as 8 months! The source of these energy savings can be traced to conditions that are common in all types of facilities.

- Long term “tweaking” of control devices to satisfy occupant demands
- Equipment operating schedules that conflict with occupancy
- Dirty or clogged filters and coils
- Uncalibrated control system components
- Simultaneous Heating and Cooling
- Faulty, inoperable or missing system components and equipment
- Lack of operator training at original building systems commissioning
- Inappropriate maintenance focus

Retrocommissioning is designed to uncover these common building operation deficiencies and improve the energy and comfort performance of your facility.

## What You Can Expect from Supported RetroCommissioning<sup>SM</sup>

- Decrease Utility Costs by as much as 25% annually
- Pay for Building System Improvements from Energy Cost Reductions
- Reduce Comfort Complaints and Demand Maintenance
- Improve the Maintenance Skills of Existing Operations Staff
- Proactively Manage Indoor Air Quality Risks and Liabilities
- Improve the Value of your Assets by Reducing Operating Costs

Our objective is simple – ensure that your investment continues to deliver value well beyond the completion of your initial RetroCommissioning project.

**RETROCOMMISSIONING**

**MAINTENANCE TRAINING**

**MEASUREMENT & VERIFICATION**

**ENERGY ENGINEERING**



**Supported RetroCommissioning<sup>SM</sup>**

#### **RETROCOMMISSIONING**

- Evaluation, Planning, Design, Implementation, Training & Support

#### **MEASUREMENT & VERIFICATION**

- Third Party Energy Savings Guarantee Management
- Hosted Third Party Energy Manager Services (IPMVP)
- Utility Bill & Rate Analysis
- Procurement Support Services

#### **O & M EVALUATION & CONSULTING**

- Computerized Maintenance Management Application
- Hosted & ASP Maintenance Management
- Operator Best Practices Training

#### **ENERGY ENGINEERING**

- Whole Building Evaluation & Investment Grade Audits
- Third Party Energy Performance Contract Review
- Energy Services Project Design & Management

#### **GREEN BUILDING SERVICES**

- LEED Facility Review & Application Support
- LEED Consulting Services

#### **AUTOMATION SYSTEMS CONSULTING**

- Open Systems Design & Integration Support
- Third Party Solution Review

**RETROCOMMISSIONING  
MAINTENANCE TRAINING  
MEASUREMENT & VERIFICATION  
ENERGY ENGINEERING**

**RETROCOM<sup>SM</sup><sub>x</sub>**  
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