Ongoing Operations

Project:

Goal of Energy-Efficient Operation

To ensure that each significant energy-consuming device uses only as much energy as necessary to perform its intended function.
Energy-Efficient Operation of Lighting
Energy-Efficient Operation of Office Equipment
The Risk of Excess Energy Use at Air Handlers
Risk of Not Sustaining Energy-Efficient Operation

15.4%

- Unnecessary energy use
- In excess of energy required to meet occupant needs
- Unknown to operators or occupants
- Detected by a process of verifying actual performance
Outline of Activities:

1. Identify current participants in energy-efficient operation
2. Select a representative sample to interview
3. Collect information on current practices
4. Compile and report findings
5. Formulate recommendations for improving energy-efficient operation
1. Identify Current Participants in the Energy-Efficient Operation of Buildings

A. Facilities likely to have assigned in-house staff:

- School districts
- Colleges/Universities
- Govt. buildings (city, county, state)
- Hospitals
- Corporate facilities
- Owner-occupied office buildings
- Large retail facilities
1. Identify Current Participants in the Energy-Efficient Operation of Buildings

B. Outside Providers

- Maintenance contractors
- Control companies
- Commissioning providers
- Consulting engineers/architects
- Energy service companies (ESCO’s)
- Property managers
3. Collect Information on Current Practices

* Type of facility
* Who has responsibility for energy-efficient operation
* What energy-consuming equipment do they deal with
* What are their qualifications/training
* What is their procedure/methodology
* How do they track and report effectiveness
* What is their contractual arrangement (outside providers)
* What is the institutional support for the activity (internal providers)
* Recommendations for improved effectiveness
* Institutional barriers to improved effectiveness
5. Possible Recommendations for Improved Energy-Efficient Operation

- Key components of an effective process to sustain efficient operation
- Building types or building systems with high potential
- Training for persons responsible for energy-efficient operation
- Training for management:
  - Recognition of potential
  - How to organize and manage an energy-efficient operation process
- How to encourage more energy-efficient operation (incentives)