Optimizing Electricity Reliability & Cost for Large Commercial Buildings

eDiscoveri ENERGY is focused on helping customers reduce energy costs, improve utility relationships, and increase operational uptime. The following case study is a review of how our LEAP (Leverage Energy Analysis Program) may help clients.

Client Profile:
A large commercial facility in Virginia, seeking to mitigate rising utility costs and frequent power reliability issues.

1. The Challenge

The facility faces two primary hurdles:

- **High Operational Costs:** Rising demand charges and inefficient energy utilization across HVAC and lighting systems.
- **Reliability Concerns:** Power fluctuations impacting critical business operations and equipment longevity.

2. The Strategy: LEAP Into Action

eDiscoveri Energy implements its proprietary Leveraged Energy Analysis Program (LEAP) to identify low-cost/no-cost opportunities for cost recovery and avoidance.

- **Phase 1: Energy Audit & Baseline Development:** Conduct a comprehensive analysis of current utility usage (electricity, gas, water) to establish a performance baseline.
- **Phase 2: Power Reliability Assessment:** Evaluate the building's and utility's electrical system to ensure consistent, uninterrupted power and to prevent, or minimize operational downtime. Evaluate relationship with the electric utility to improve **electric supply reliability** to increase operational up-time.

- **Phase 3: Cost Recovery Identification:** Performed an aggressive audit of past utility bills to identify overcharges and recover lost funds.

3. Implemented Solutions

- **Demand Response & Load Management:** Optimize the acquisition and utilization of utility services to reduce peak demand charges.
- **Utility Relationship Management:** Improve communication and contract terms with service providers to ensure better rate structures and reliable supply.

4. Key Results

- **Cost Avoidance:** Immediate identification of billing errors and more favorable rate schedules.
- **Increased Up-time:** Improve relationship with electric utilities and hardened supply reliability.
- **Budget Implementation:** Professional fees paid exclusively from a portion of the actual realized savings, requiring no upfront capital.