

## EAP System: Energy Expert Module

The **EAP System: Energy Expert Module** is an integrated total energy services solution for commercial and industrial building owners. **Let's be perfectly clear:** This is not an event, it is a proven innovative program, providing a total solution to control energy services budgets (Figure 1). The immediate goal is to baseline (benchmark) the existing energy services budgets and building performance. Next, we help you understand and implement the steps that are needed to be taken to quickly increase your bottom line and improve performance.

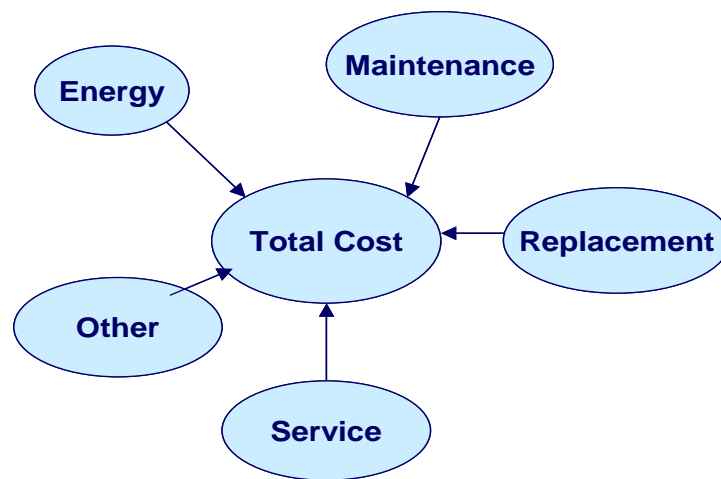


Figure 1: Total Cost of Energy System Ownership

The EAP System Energy Expert Module stepped approach is as follows:

### 1-Benchmark:

Benchmark of existing Energy Service Budgets- Creation of SEP (Statement of Energy Performance). Using Energy Star Building Guidelines (Figure 2).

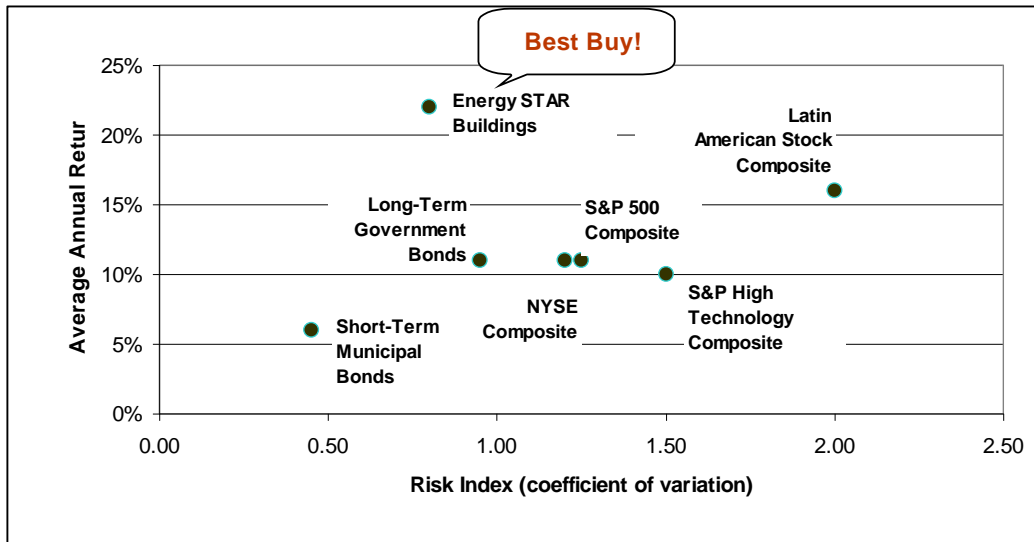


Figure 2: ROI Comparisons

### 2-Build Energy Model:

Site evaluation and budget review. The cost of ownership is evaluated for the facility and benchmarked. Creation of equipment listing and web based worksite for tracking all aspects planned maintenance.

### 3- Energy Expert Implementation:

3-Real time Energy Utilization Monitoring- Energy utilization is evaluated by a wireless web based monitoring system. Daily score cards are sent out showing actual consumption (Figure 3).

Energy Expert ScoreCard for : Madison Courthouse

Date: 8/12/2007



Calculated Savings / (Cost)	
8/12/2007: (\$ 33)	Year-To-Date: (\$ 1,805)
Prior 30 Days: (\$ 529)	Prior 12 Months: (\$ 1,722)

Consumption	Load Profile
<p><b>Actual Use</b> 2,213 kWh</p> <p><b>Expected Use</b> 1,846 kWh</p> <p>Baseline 91% Based on 24 hours <a href="#">What does this mean?</a></p>	<p><b>Peak of 209.6 kW at 2:30 PM</b></p> <p><b>Load Profile</b></p>

Potential Peak Days\*

5-Day Look Forward →

Risk of Peak Day:	Mon, 08/13	Tue, 08/14	Wed, 08/15	Thu, 08/16	Fri, 08/17
High:					
Medium:					
Low:					
<b>Forecast Low Temp:</b>	60 °F	66 °F	58 °F	60 °F	61 °F

\*Based on peak demand (kW) corresponding closely to max/min annual outdoor temperatures

Comments

Document the cause of the load excursion between 4:30 - 6:30 AM on a Sunday that resulted in a 15.8% HIGH usage over the Expected Use.

Save

Figure 3: Daily Scorecard

#### 4-Optimization:

Continuous Monitoring Based Commissioning. Creation of proper planned maintenance schedules.

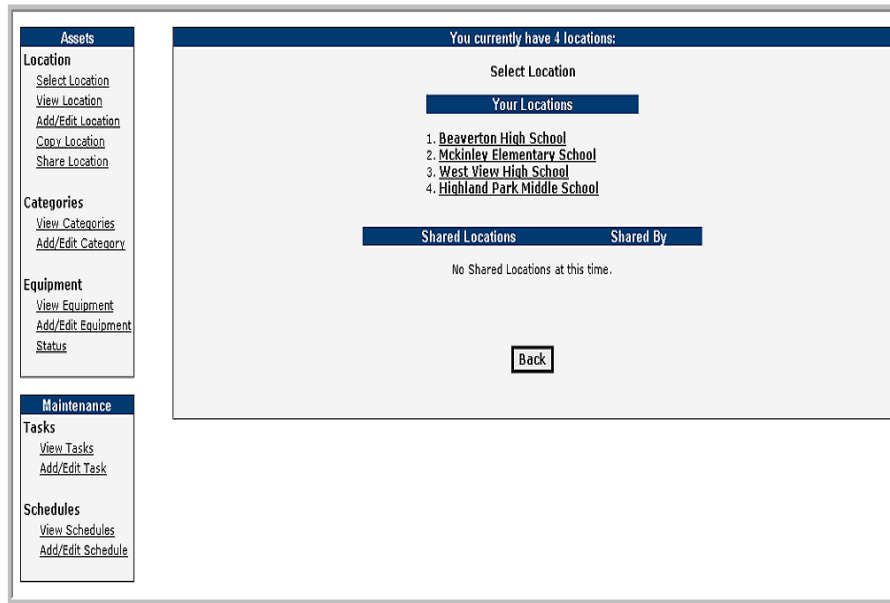


Figure 4: Planned Maintenance Worksite

#### 5- Upgrade:

Implement Upgrades based on projected ROI's. Take advantage of the lucrative utility rebates currently in the marketplace, including significant tax credits. All upgrades are presented in budget type format (Figure 4) to eliminate the pitfalls of "Low Bid" purchasing.



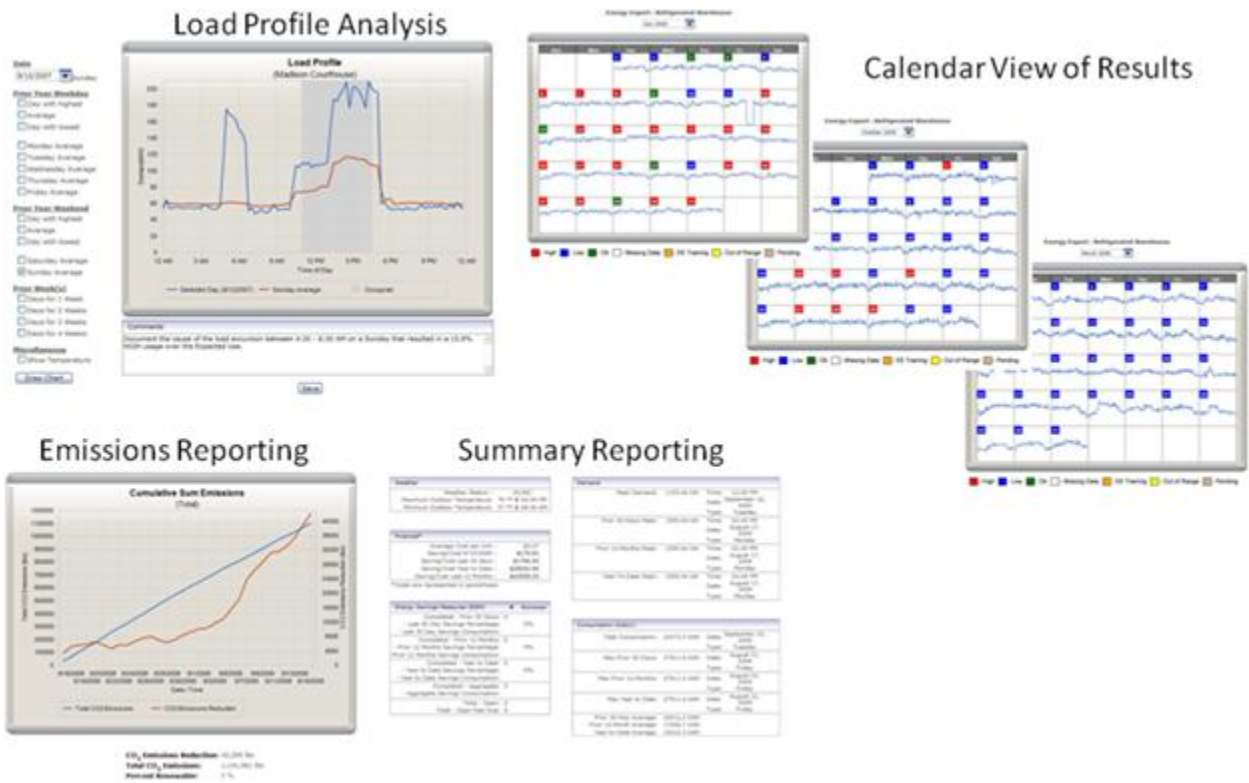


Figure 5: EAP System Executive Summary Reports

**8- Continuous EAP System Energy Expert Module Support**  
 Time shared energy engineering services

“Making the World a **Greener** Place one Building at a Time”

**Performance Guarantee:**

*Our performance guarantee is simple. If at anytime during the first year you are not you are not completely satisfied with the EAP System Energy Expert Module we will remove our monitoring equipment and refund 50% of fee paid, no questions asked. Furthermore, if decreased ownership cost is not, at least, double the fee paid at the end of third year, The MC Alliance Energy Group will continue to implement **The EAP<sup>sm</sup> System Energy Expert Module** for you at no additional cost until your investment has been recouped by a factor of two (2)! **It is that simple.***

We have recently implemented the strategy at the Dennison Building, Suffolk County Legislature Building, Suffolk Y-JCC. This program is a proven innovative strategy that, when implemented will uncover tremendous opportunities to reduce your energy services budgets. We would like to introduce you to our program and why our clients refer to it as “**it’s a no brainer**”.

*“The M.C. Alliance Energy Group’s EAP program has far exceeded my expectations on every level. Their expertise in return on investment budget analysis, mechanical systems, and benchmarking, has resulted in implementation of significant sustainable Energy Conservation Measures. Completed within budget, with minimal disruption to the facility. The performance of the boilers and HVAC equipment has never been better. The projected reduction of energy usage were very accurate; The best part is, the ROI projections were very accurate -we are saving a lot of money. Every commercial building in today’s economy needs this program. It’s a no brainer. I look forward to working with them in the future to further increase our bottom line”.*

Nick DeSimone, Director of Facilities, Suffolk YJCC.