Mosto Technologies, Inc.

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HP Steam Trap Monitoring





3-5% permanent reduction in consumption

LEED Pt.- Innovation in Operations EB O&M

Saved clients over \$1,000,000 Annual consumption

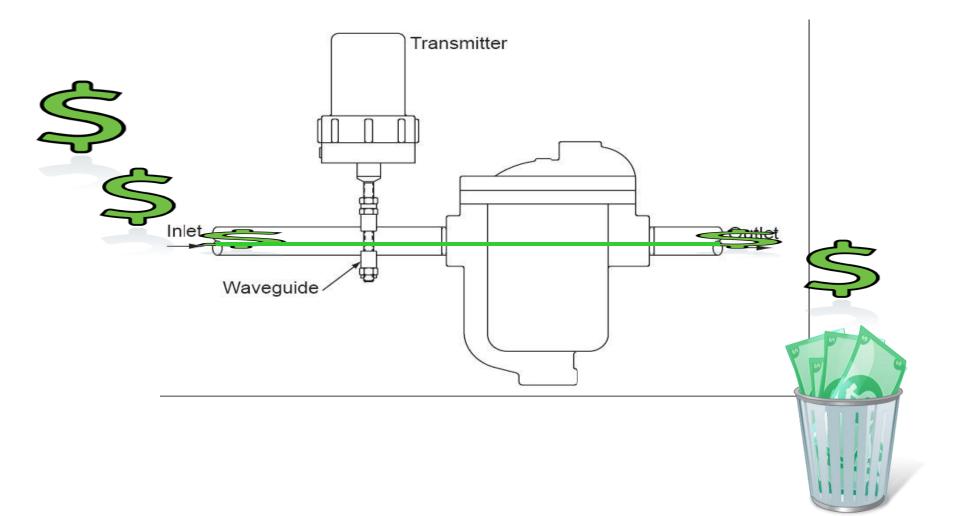
Steam Trap Monitoring



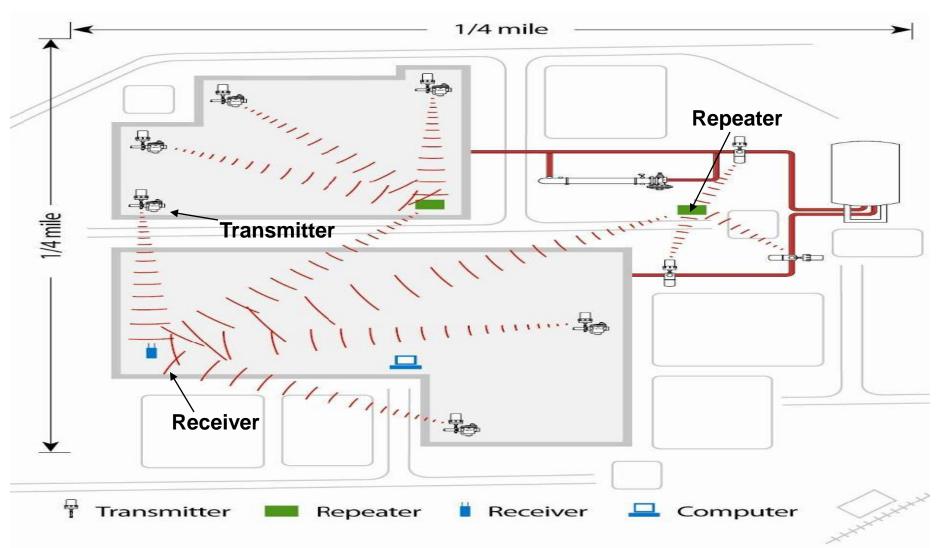
- Real-time monitoring for high-pressure critical traps (>15 PSIG)
- Average total system cost \$25K \$50K

Web-Based or Modbus/BMS Integration

Basic Installation



Wireless Signal



Trap Inventory

	Edit Location	Trap Surveys	Trap Inventory	Event History	Location Reports	User List		
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The Trap Inventory should be used to show the repairs made since the survey. To add a new trap, use the Add New Trap li

Trap Inventory Listing : Mosto Technologies

Tag N	Number		Defec	tive Any	~	Co	ndition Any	~	
L	ocation		In Service 🛛 Any 🛛 🔽			*	Unit Any 💌		
Tag Number	Manufacturer	Model	Unit Location	Last Survey	Condition	Steam Loss (Ib/yr)	Annual Cost (USD)	CO2 Emissions (Ib/yr)	Fuel Loss(MMBTU/ут)
1	Armstrong	2010	HP Header 1		Good				
2	Armstrong	2011	HP Header 2		Cold				
3	Armstrong	2010	HP Feed to RM B		Blow Thru				
4	Armstrong	2010	HP PRV to RM B		Blow Thru				
5	Armstrong	2010	HP PRV TO RM A		Good				
Total for $\$$	5 items:					0	0	0	0

Event History

H	lome	Locati	on Info	Best	Practices Package	Administrati	on		
	Edit Loc	ation	Trap Sur	veys	Trap Inventory	Event History	Location Reports	User List	Help Logout

Event History : Mosto Technologies

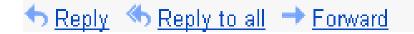
Tag Number	Transmitter Number	Condition Any	V	Apply Filters
				(1 - 6 of 6)

Event Timestamp	Event Type	Tag Number	Transmitter Number	Trap Condition
2007-04-12 16:01:36	Condition changed	2	2	Cold
2007-04-12 16:00:01	Condition changed	3	3	Cold
2007-04-12 15:59:18	Condition changed	1	1	Cold
2007-04-12 15:56:15	Condition changed	2	2	Cold
2007-04-12 15:53:42	Condition changed	3	3	Cold
2007-04-12 15:53:05	Condition changed	1	1	Cold

Email Alarms

Trap with tag number 148 has changed state. Transmitter Number : 1519914 Previous State: Cold New State : Good Trap Location : Memorial 20fl flash tank Siteid : 2308 Location Name : Memorial / Bobst Remote Host Name : SK1_SteamEye Change detected : Fri Oct 03 14:36:54 EDT 2008





Total Trap Monitoring Losses Tracking Through 2011					
Building	Yrs In Service	# Traps Being Monitored	# Traps Passing Steam	Total Losses	
Hospital (8 Buildings)**	3/1	199	16	\$196,134.00	
Office Building 1	4	19	7	\$74,934.00	
Office Building 2 (4 buildings)	3	55	8	\$117,202.00	
Office Building 3	4	34	16	\$206,352.00	
Office Building 4	2	12	5	\$35,071.00	
Office Building 5	4	19	5	\$69,412.00	
Office Building 6	3	10	3	\$22,007.00	
Office Building 7	2	18	3	\$38,499.00	
Office Building 8	2	24	6	\$72,602.00	
Office Building 9	1	23	2	\$64,162.00	
Office Building 10 (2 Buildings)	Less Than 1	25	4	\$46,191.00	
Office Building 11	1	32	2	\$29,292.00	
Office Building 12	Less Than 1	29	2	\$33,124.00	
Office Building 13	Less Than 1	5	1	\$5,375.00	
Office Building 14 (4 Buildings)	Just Put Online	37	0	\$0.00	
Totals For All Buildings		541	80	\$1,010,357	

** Hospital 70 Traps to the System 1 year ago

Losses based on \$27 per MIbs



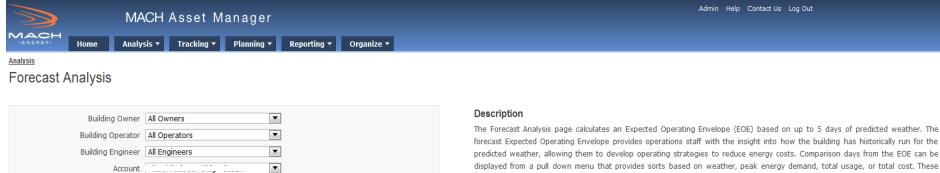
Steam Meter Monitoring



- Con Ed provides pulses from meters to the building to develop real time consumption profile
- Established baseline using 2 years of historical interval data
- Peak demand and consumption management
- Metering and Verification



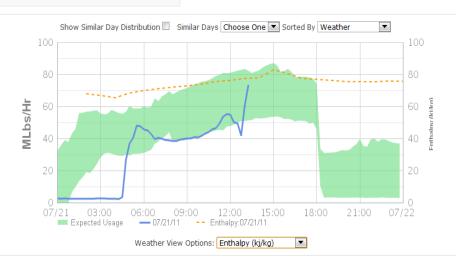
Real Time Consumption



Forecast Date 7/21/11

Submit

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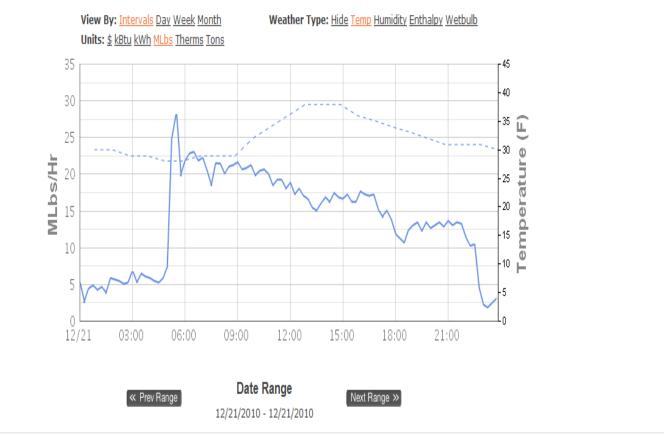
View Notes Detailed Information		Download Data Print Report
		Expected
	MLbs Total	1,082
	Peak MLbs/Hr	70

Total Cost *

historical comparisons provide the information needed to needed optimize building operations for start time and equipment operations.

\$14,956

Peak Demand Mgt



Download Data Print Report ☆ Energy Star Report View Notes Non-Coincident Non-Coincident Peak Weather Station Total MLbs Remove Occured At Peak MLbs/Hr 🙎 Х KNYC 🛛 331 12/21/10 05:30 28 .

Peak Demand Mgt



@ convright 2011 MACH Energy

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Similar Weather Day Analysis

 March
 Home
 Analysis ▼
 Tracking ▼
 Planning ▼
 Reporting ▼
 Organize ▼

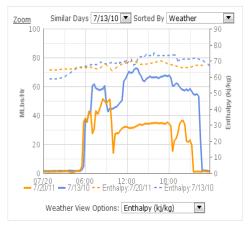
 Analysis
 Organize ▼
 Organize ▼
 Organize ▼
 Organize ▼

Similar Weather Days



Description

The day to be analyzed is entered in the Analysis Date box to the left. MACH Energy's Similar weather Day Analysis tool develops an expected operating envelope based on historic behavior of this building under similar weather conditions. The operating envelope is overlaid with the building's usage for the day you selected (below left). Building energy use is displayed for days with similar weather conditions to those of the day you selected (below right).



Similar Weather Day Alert For 07/20/2011

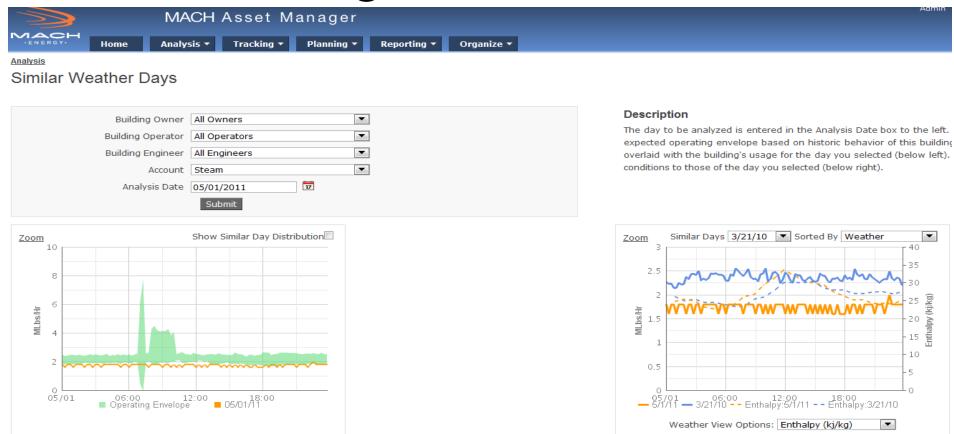
The costs below represent the energy charges (all \$/kWh charges) for your building. The expected energy charges are calculated using the mean of the kWh range represented by the operating envelope.

Description

Energy use was less than expected at 1 Liberty Plaza - Steam - Total on Wednesday, 07-20-2011 reducing estimated energy expense by \$4317.

Associated Dollars							
	Daily Energy Charges (\$)						
Expected	12,367						
Actual	8,050						
Difference	-4,317						

Metering and Verafication



Similar Weather Day Alert For 05/01/2011

The costs below represent the energy charges (all \$/kWh charges) for your building. The expected energy charges are calculated using the mean of the kWh range represented by the operating envelope.

Description

Energy use was less than expected at 1 Liberty Plaza - Steam - Total on Sunday, 05-01-2011 reducing estimated energy expense by \$311.

Associated Dollars Daily Energy Charges (\$)

Expected	1,266
Actual	954
Difference	-311

Steam Meter Monitoring

Peak Demand Management

Steam Consumption Management

Steam Bill Verification

Measurement and Verification



Money Isn't All You're Saving