

USSI METER DATA MANAGEMENT ANALYSIS

USSI MDM ANALYSIS SOFTWARE provides benefits that can be added on to the powerful USSI MDM SOFTWARE ENGINE (See MDM Software Engine brochure). These applications are designed to provide important information to the Utility. A few examples are power theft detection ,transformer utilization, account settlement, etc, as well as custom reports for the Utility, all of which can help the improve efficiency and customer service.

The **Non Zero Usage** and **Unassigned Accounts** reports shown here are examples of how the system can help to detect power theft or clerical errors.

Vacant Accounts with Nonzero Usage-01/28/2010

Account	Meter	Usage	Cause	Details
745-4283	7204891	15	Power Company-Problem	May be leaky boot
695-4625	7832869	5	Data Error	Zero Usage Indicated in TWACS
690-1255	7832878	15	Records-Pending Work Order	Turned on 01-28-10
735-3390	7202590	5	Records-Pending Work Order	Turned on 01-29-10
			Power Company-Miscellaneous	

Meters With Usage, Not Assigned to Account

Meter Number
1037
1046
1070
1079
1082
1107
1127
1144
1170
1177
1178
1179
50004
50005
50008

Statistical Analysis of incoming usage data in the **Hi/Lo reads** report allows the system to report and alarm on significant changes in usage on an account. This data can be used to signal potential HIGH BILL circumstances within a few days of the changes and provides the Utility's customer service personnel the opportunity to contact the customer and find problems such as failing heat pumps, damaged vent pipes, etc. before the end of the billing cycle thus saving energy, money and considerable frustration. In just one winter season, a 37,000 customer utility found over 100 heat pumps using auxiliary resistance heating continually and with this software saved customers thousands of dollars.

Hi/Lo Reads-02/10/2010

Account	Meter	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Average	Beginning	Cause	Details
760-2025	7340952	78	60	99	37	37	10	4	2007-02-07		
725-4548	7341160	27	29	67	31	31	5	4	2007-02-07		
730-3600	7831886	17	24	29	12	12	3	1	2007-02-07		
740-1340	7832192	13	13	23	11	11	1	0	2007-02-07		

Analysis or aggregation of the data (if a circuit model is available to the MDM) can augment the AMR's own auditing in order to help find problems and improve performance. Here are a couple of examples.

Meters Not Reporting (Within Last 2 Weeks)

Meter Number	Last Read Date/Time
1052	Monday, 2010-04-05 00:00:00
1043	Monday, 2010-04-05 00:00:00
1070	Monday, 2010-04-05 00:00:00
1082	Monday, 2010-04-05 00:00:00
1113	Thursday, 2010-04-01 00:00:00
1134	Monday, 2010-04-05 00:00:00
1158	Monday, 2010-04-05 00:00:00
1174	Tuesday, 2010-04-06 00:00:00
1177	Monday, 2010-04-05 00:00:00
1179	Monday, 2010-04-05 00:00:00
21072	Monday, 2010-04-05 00:00:00
21091	Monday, 2010-04-05 00:00:00
50001	Monday, 2010-04-12 19:00:00
50002	Monday, 2010-04-12 19:00:00

Daily Substation Data

Substation	Fdr	Phase	# Meters	Readings	Percent	OK or TS	PE	IP	DS	NA	SP	PR	RO	RM	Usage (KWH)
TIMBER RIDGE	224	C	534	533	99.81	0	533	0	0	0	0	0	0	0	57
224 Total:	1535		1524	1524	99.930	0	1524	0	0	0	0	0	0	0	57
TIMBER RIDGE Total:	2425		2421	2421	99.790	0	2421	0	0	0	0	0	0	0	141
TUSCULUM1	NONE	A	942	942	100.00	0	942	0	0	0	0	0	0	0	90533
TUSCULUM1	NONE	B	906	905	99.89	1	904	0	0	0	0	0	0	0	88182
TUSCULUM1	NONE	C	1083	1081	99.82	0	1081	0	0	0	0	0	0	0	101438
NONE Total:	2931		2928	2928	99.900	1	2927	0	0	0	0	0	0	0	280613
TUSCULUM1 Total:	2931		2928	2928	99.900	1	2927	0	0	0	0	0	0	0	280613
TUSCULUM2	NONE	A	316	314	99.37	0	314	0	0	0	0	0	0	0	162
TUSCULUM2	NONE	B	332	332	100.00	0	332	0	0	0	0	0	0	0	0
TUSCULUM2	NONE	C	328	328	100.00	0	328	0	0	0	0	0	0	0	0
NONE Total:	976		974	99.800	0	974	0	0	0	0	0	0	0	0	162
TUSCULUM2 Total:	976		974	99.800	0	974	0	0	0	0	0	0	0	0	162
Final Totals:	37413		36808	98.650	4	36903	0	0	1	0	0	0	0	0	494497

For detailed information or to schedule a demonstration please contact Tom Woolsey @ 404 386 5719 or sales@utilitysoftwaresolutions.com

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ENGINEERING AND OPERATIONS

Transformer Profiling - USSI MDMS ANALYSIS provides accurate information from interval or daily meter readings to assist in transformer management. The easy to use browser software can analyze transformer loads to spot under loaded or over loaded transformers using AMI data from user definable date ranges.

Transformer Report

Customer Main Edit User Log Page Service Page Information Off Help

AMR Interface System

[Go to Column]

Location: JE4520

Start Date: 1/1/2008

End Date: 1/31/2008

Size Marker: On Off

Get Report

Transformer Site Info As of 1/31/2008

Type: OVERHEAD - CSP Pole: JE4520

Serial Number: 02A121428 Manufacturer: Inset Manufacturer

Size: 37.5 Date Purchased: Inset Date Purchased

Phase: B PCB Tested: Inset Yes or No

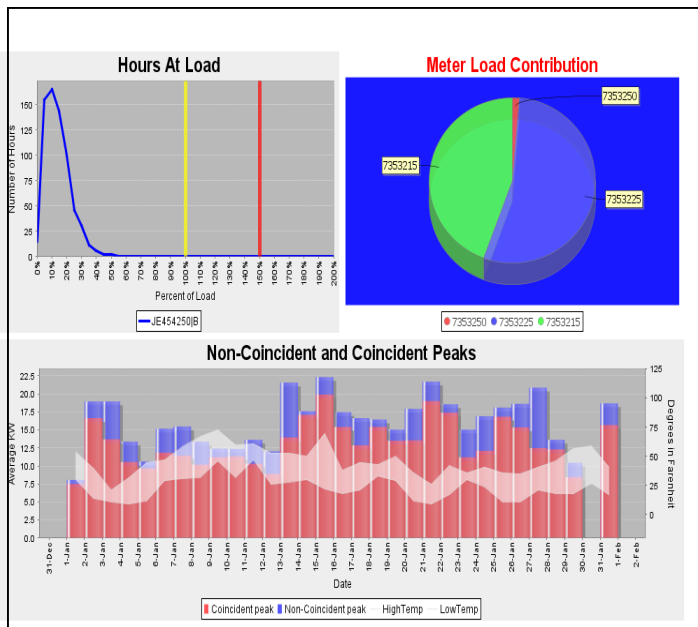
Transformer Statistics for period:

Coincident Data				
Peak Usage (KW)	19.954	Avg (KW)	12.767	Load Factor: 0.641
Peak Loading	0.531	Avg Loading	0.340	
Non-coincident Data				
Peak (KW)	22.336	Avg (KW)	15.548	Load Factor: 0.696
Peak Loading	0.696	Avg Loading	0.415	

Load Factor is a measurement of the variability of the load (avg load / peak load)
Loading is a measure of how the actual load compares to the rated capacity of the transformer.

Per Account Statistics:

Key	Account	Meter	Total Usage(KWH)	Avg Daily Usage(KWH)	Percent	Max(KW)	Meter Table
	735-5220	7203896	60.000	2.128	1.400	1.088	Hourly Consumption
	735-5226	7203726	2389.000	82.372	54.300	11.520	Hourly Consumption
	735-5218	7204550	1951.000	67.276	44.300	13.760	Hourly Consumption
	Account	Meter	Total Usage(KWH)	Avg Daily Usage(KWH)	Percent	Max(KW)	



Other metrics and GIS—Studies on blink count, low voltages, bad meter reads, or other metrics provided by the AMR can be reported. Metrics that can be associated to location information can be presented on a mapping system map for additional insight.

Bad Meter Reads

Under Loaded Transformers

Blink Count Report

Operational Home Main Log Page

AMR Interface System

Start Date: 5/1/2008

End Date: 5/31/2008

Minimum Blinks: 30

Get Report

Account	Meter	Blinks	Days
895-6225	2650537	30773	3
605-1005	8665950	24647	2
855-2023	9254200	3103	2
605-6515	9663230	2927	3
695-4505	7836065	1061	3
695-8145	7201560	1093	3
795-3025	7204255	484	3
710-4150	7201291	308	4
000-4250	8668263	104	4
895-6125	7411646	191	6
695-3250	7833137	77	17
395-7300	8521008	76	4
770-1625	7341980	70	6

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