



MDMS UPDATE

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DEC. 2018 – JAN. 2019

FROM THE PROGRAM MANAGER

By Michael Ott, MDMS Program Manager, USACE—Huntsville Center

Welcome to our December 2018 - January 2019 issue of the *MDMS Update*, designed to keep you informed on the growth and latest developments of the Meter Data Management System and the Army Metering Program.

First up in this issue of the newsletter is the MDMS Upgrade Go-live. The MDMS Program Team has received great feedback and continue to offer training webinars.

Please be advised that during the last General Officer IPR, the decision was made that any new user requests be verified before being added to MDMS. While we are awaiting the official POC from each Land Holding Command, we are trying to do our due diligence to look up requested new users to validate the request. Please be patient, as this does take some time.

We brief two new reports—the Daily Comparison and the Override Rollup—on

pages 2 and 3. We continue to add new tools to help the Army's Energy Managers and Resource Efficiency Managers in their day-to-day efforts.

Energy Managers and Resource Efficiency Managers interested in learning more about how the private sector interacts with Army energy needs, as well additional training opportunities, should mark their calendars for February 25-28, 2019. See details on page 4.

Also on page 4 are several MDMS Tech Tips to help answer some of the most commonly asked questions during the recent training webinars.

As always, our mission is to improve the MDMS experience for end users. Your input is valuable, and we welcome your feedback at:
usarmy.coe-huntsville.cehnc.mbx.armymeterhelp@mail.mil



Michael Ott, Program Manager, MDMS USACE—Huntsville Center

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MDMS UPGRADE GO-LIVE

The rollout of the upgraded MDMS went live over the weekend of 15-16 December 2018. When users logged into the system on the following Monday, they were redirected to the new site. Once fully logged into the system, users were presented their home dashboard defaulted to their default site. Since then, the MDMS Program Team has added over 48 new users and has had extensive interaction and dialog with Energy Managers (EMs) and Resource Efficiency Managers (REMs) from all over the world either one-on-one or during the training webinars. The team has been listening to your feedback and rolling in requests and suggestions for making the system more user-friendly and beneficial for your energy management and reporting needs. See page 2 for two new reports since the go-live.

One common request came from multiple EMs representing Army National Guard Bureaus (NGB). They wanted to be able to view all of their sites from an installation level. That ability was enabled right before the holidays and is currently being expanded to additional reports.

Another distinctive addition is the Customer Billing module, which was described in detail in the October—November

issue of the newsletter. This new module continues to be a big hit on the training webinars and Michael Myrick, EM, Mississippi NGB, indicated that tenant billing was very important to them.

The MDMS Program Team continues to receive positive feedback on the upgraded system and the enhanced functionality. Francis Sheridan, EM, Fort Irwin, said "I have been doing energy for 30 years and this is the most highly developed system. It's highly user friendly. Congrats! Thanks. Well developed!"

After the 19 December 2018 training webinar, Juanito M. Cruz, Jr., Utilities Engineer, DPW, Fort Irwin, sent an email saying, "I participated in the teleconference you conducted this morning. Our group is extremely impressed by the presentation your group made considering the amount of energy you put up in gathering the pertinent data and information. We are very excited and motivated in putting everything into action and good use."

Training webinars will continue. If you would like to participate in a future webinar, send a request to the AMSD and we will take it from there.



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NEW FUNCTIONALITY AVAILABLE

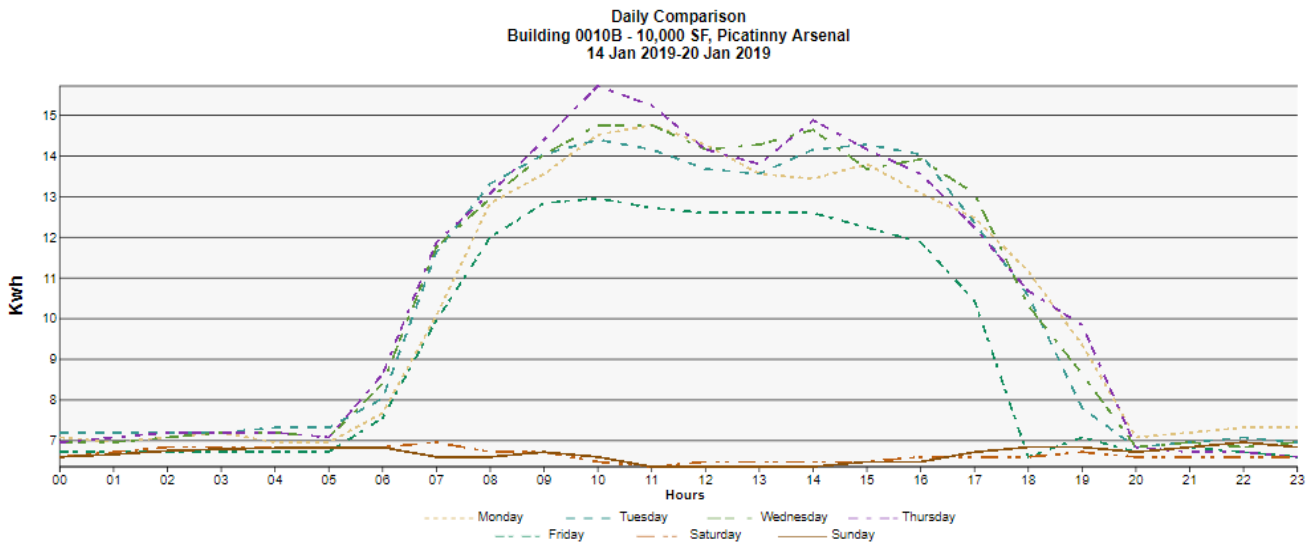
New functionality continues to be added into the MDMS Upgrade. Two new reports have been added to the Energy Management page: Daily Comparison and Override Rollup. These reports will be briefed below.

The Daily Comparison report provides a graphical overview of the consumption data—in kwh—for each day of the week for the query range selected. This allows you to compare usage during known hours of occupancy to determine patterns, trends or issues, such as off-schedule cycling of equipment. By clicking on the name of the week in the bottom key/legend, you can toggle one or more days on and off in the graph.

Daily Comparison

[Export to image](#)

[View report options](#)

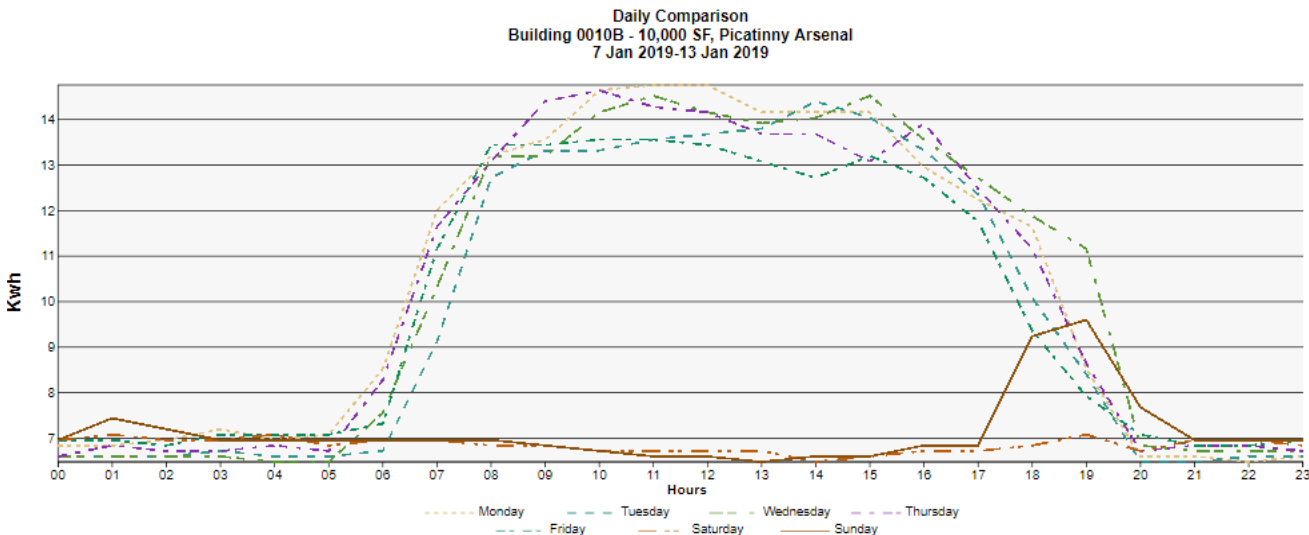


EMs and REMs have requested the ability to plot weekly graphs per building of the previous week’s hourly data to send weekly to building managers. The goal is for building occupants to see what night and weekend loads look like and see the impact from keeping equipment turned off during unoccupied periods. The example shown below depicts an unexpected cycling on of equipment from 1700-2100 on a Sunday. This tool enables building managers to quickly detect these issues from an easy to read visual graph. *(Cont. on pg. 3)*

Daily Comparison

[Export to image](#)

[View report options](#)



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NEW FUNCTIONALITY AVAILABLE (CONT. FROM PG. 2)

The Override Rollup Report looks very similar to the Meter Status Rollup Report, but it displays the total number of buildings, the total number of buildings that are on schedule, total number of buildings overridden, and any buildings that have been designated exemptions for overrides. Out to the very right of this report, again similar to the Meter Status Rollup, you see the consistency of system overrides from the last 30 and 60 days.

Override Rollup

Organization	Metered SF	Total Metered Buildings	Total Buildings On Schedule	Total Buildings Overridden	24/7 Ops Exemption Buildings	Other Exemption Buildings	Building Exemption Rational	% of Days Overridden Last 30 Days	% of Days Overridden Last 60 Days
HQDA	192,998,337	5,070	2,778	2,250	40	2		56.21	40.78
IMCOM	140,670,490	4,020	1,843	2,135	40	2		67.96	49.25
ATLANTIC REGION	74,026,846	2,064	1,202	820	40	2		65.99	45.35
CENTRAL REGION	46,071,513	1,203	416	787	0	0		70.16	59.64
EUROPE REGION	10,780,690	327	119	208	0	0		64.71	53.1
PACIFIC REGION	9,791,441	426	106	320	0	0		73.64	35.47
USARC	7,559,330	210	172	38	0	0		17.97	15.33
81ST REGIONAL SUPPORT COMMAND	1,460,316	38	24	14	0	0		36.14	28.73

Also, you can drilldown to the building level details. Once at the building level, you can use the Edit icon, out to the right in the Building Exemption Rational column (see below), to input one of the following reasons for the building's exemption for the override: 24/7 Operations, Equipment Under Repair, Building Under Construction, Heavy equipment use during off-duty window, and Reactivate Building. Note there are several 24/7 exemptions in the below screenshot.

Organization	Metered SF	Total Metered Buildings	Total Buildings On Schedule	Total Buildings Overridden	24/7 Ops Exemption Buildings	Other Exemption Buildings	Building Exemption Rational
24208 - HOLLAND BARRACKS #2	51,809	1	0	0	1	0	24/7 Operations Edit
24406 - SOLDIERCOMMUNITYBLDG.	17,007	1	0	1	0	0	Edit
24708 - HOLLAND BARRACKS #1	51,809	1	0	0	1	0	24/7 Operations Edit
251 - POPE BE MAINT SHP	29,108	1	1	0	0	0	Edit
25634 - POLICE/MP STA	36,717	1	0	0	1	0	24/7 Operations Edit

Once you are drilled down to the building level, you can click on the blue hyperlinked building name — especially for a building shown as being overridden — and MDMS will launch the Component Benchmarking module for that building's last month of interval data, complete with populated metrics, as shown at the right.

Benchmark Component Results

Metrics	User Benchmark	Calculated W/SF	Threshold for Notification
Number of Lowest Non-Zero Values for Avg: 30	Plug: 7.9333	Plug: <input type="text"/>	Plug: <input type="text"/>
Average of # Lowest Non-Zero kW: 993	AHU: 0	AHU: <input type="text"/>	Time of Day: 00:00:00
Min (Non-Zero) kW: 8	Lights: 0	Lights: <input type="text"/>	Setup/Notification
SF of Building: 23672	Chiller: 0	Chiller: <input type="text"/>	
Meter SF Definition	Total Chiller/AHU: 0	Total Chiller/AHU: <input type="text"/>	
Metered SF: 23672	Calculate	SAVE	

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HUNTSVILLE ENERGY SUMMIT AND REM TRAINING

Energy Managers interested in learning more about how the private sector interacts with Army energy needs, as well additional training opportunities, should mark their calendars for February 25-27, 2019. The 2019 Annual Energy Summit at the U.S. Space and Rocket Center Marriott in Huntsville, Alabama will offer two days of keynote addresses, panel discussions, networking and two and a half days of exhibits designed to broaden the energy manager's perspective and knowledge base. The event will open Monday evening from 6:00 – 8:00 PM with a reception in the exhibit hall. Hosted by the Energy Huntsville Initiative (EHI), a 501-C-6 non-profit organization formed in 2011 as an economic development initiative to promote the growing Huntsville energy industry, "this annual Summit could set a new record for attendees and exhibitors due to the strong support of and coordination with the Department of Energy (DOE)," said EHI Executive Director Cedreck Davis.

In addition, there will be breakout training sessions of interest to EMs/REMs and other attendees in two focused tracks: Energy Management and Technology. Topics include Monitoring Performance and Commissioning through Metering, Distributed Energy Solutions, DOE Resources/Programs, ESPC M&V, and ISO 50001 to

name a few. There will also be opportunities for earning CEU credits on topics such as Chillers and Microgrids/ Distribution Automation. There will also be showcase presentations on specific energy-related projects at several installations/sites.

Come visit the **MDMS Remote Service Desk *live*** during the 2.5 days of exhibits during the Summit.

Register at <http://energyhuntsvillesummit.com/index.php/register/>. Seating is limited to 350, so Energy Managers and Resource Efficiency Managers who would like to attend should register as soon as possible.

Immediately following the two-day Summit, the U.S. Army Corps of Engineers/Huntsville Center Energy Division will host a series of energy workshops for Resource Efficiency Managers on Thursday, February 28, 2019. This series of workshops will provide training for currently contracted REMs, their company representatives, and REM program customers. To register for the workshop, call 256-895-7196.

MDMS TECH TIPS

Energy Use Intensity (EUI) Business Rules

Many of you have asked about the business rules for this report in order to determine why certain buildings are excluded from the Target EUI calculations or why the Target EUI profile is missing for comparison purposes. USACE HQ and PNNL provided the target profiles for climate zones 3A, 3B, 4A, 5A, 5B, 6A and 7 for CAT CODES TEMF, BDE HQ, DFAC, COF and UEPH. Only those buildings with the above CAT CODES, climate zone designations and built dates from 2008 to present will be included in the report.

The Median EUI profile represents the average EUI of all buildings for the site's climate zone and CAT CODE selection. The Median EUI profile is available for all climate zones and CAT CODE combinations. Buildings reporting zero kBtu for the month will be excluded from the Median EUI profile calculation.

Custom Query versus Component Benchmarking

A common question is what is the difference between the output graph in these two reports. To many users they look identical. The Custom Query reports calculated interval usage—kwh—over the query date range. The Component Benchmark reports calculated interval demand—instantaneous kw—over the query data range and auto-plots the plug load at the average of the 30 lowest non-zero intervals.

Missing Data

Several users have called the AMSD for help with missing data. Currently, MDMS has data for 1 October 2017 to present. If a meter was not reporting as of that October date, it is not present in MDMS. However, should that meter start reporting again, it will be added into MDMS as a new meter and data will begin coming in. In addition, if the meters assigned to a building fall into the above category of missing data, the building will not show up in any of the reports for searching/reporting.

One more tip, regarding the Cumulative Usage Comparison reports: the orange current FYTD trend line only shows data for month's that have passed. So, if we are at the middle of a month, it won't appear until the first of next month.

