MDMS *UPDATE*

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FROM THE PROGRAM MANAGER
By Michael Ott, MDMS Project Manager, USACE—Huntsville Center

Welcome to our August – September 2017 issue of the *MDMS Update*. As reported in our last issue (June – July 2017), below, you will find a story about Indiana Army National Guard's recent energy savings success story involving the analysis of MDMS meter data. We really would like to know your experiences in using meter data to prioritize investigation and/or discover an energy savings opportunity.

DISA and GDIT are on schedule to launch MDMS V2 beginning in March 2018. We've provided an update with some additional news about COTS software in the article on Page 2.

The Army meter network continues its expansion. It is our pleasure to announce the newest reporting installations: Iowa Army Ammunition Plant in Middleton, Iowa, and Holston Ammunition Plant in Kingsport, Tennessee. A collaborative

team effort led to the sites' successful reporting to MDMS.

Details regarding the MDMS training video tutorials are provided at the bottom of Page 3. In addition to being posted on the Army Metering Service Desk website accessible via the MDMS home page, these video tutorials can also be found on milTube via the links provided within the article. Whenever new report functions are created, MDMS uses will receive an email with the video tutorial link for that new report functionality. Users are encouraged to view the tutorials prior to participating in MDMS training webinars.

As always your input is valuable, and we welcome your feedback at: usarmy.coehuntsville.cehnc.mbx.armymeterhelp@mail.mil

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Inside this issue:

ENERGY SAVINGS AT INDIANA ARMY NATIONAL GUARD

Jaron Harding, energy manager at Indiana Army National Guard, shared an energy savings success story achieved by analyzing the MDMS meter data. Harding and other INARNG energy managers routinely review the meter data of their high energy use buildings, especially where there is large energy-intensive equipment. One such example is the INARNG Combined Surface Maintenance Shop #1. By exporting the MDMS meter data to an Excel template containing preconfigured graphs and using contextual information furnished by shop personnel, INARNG energy managers can determine what equipment is running when.

Using this methodology, retired Lt. Col. Boehmer noticed electricity usage spikes at a particular building occurring after shift hours. The root cause was determined to be the large air compressor system continuing to cycle on at night due to system air leaks. See the Excel graph on Page 2 that shows the cycling-on of the air compressor(s) during late evening and early morning hours. In addition to repairing the air leaks, the system is now being shut off at night rather than relying upon the non-use

of the system to prevent it from cycling on. Another benefit realized by this investigation was the determination that the large air compressors were oversized for most shop requirements. A smaller, less energy intensive air compressor was purchased to satisfy the needs of most of the shop's activities, thereby reserving the large air compressor system for its designed purpose: operation of the blasting booth.

Energy usage analysis across a wide scope of INARNG facility operations revealed that some of the standard operating procedures intended for energy conservation did not always transition with the turnover of personnel. Harding met with the individual shop leaders to strategize ways to use the air systems more efficiently. Strategies included coordinating the operations of the high energy using equipment to alternate times and days when possible to avoid peak rate hours and reduce overall peak demand. *T*hanks Jaron for sharing this success story with us, and good work! If anyone else has a success story
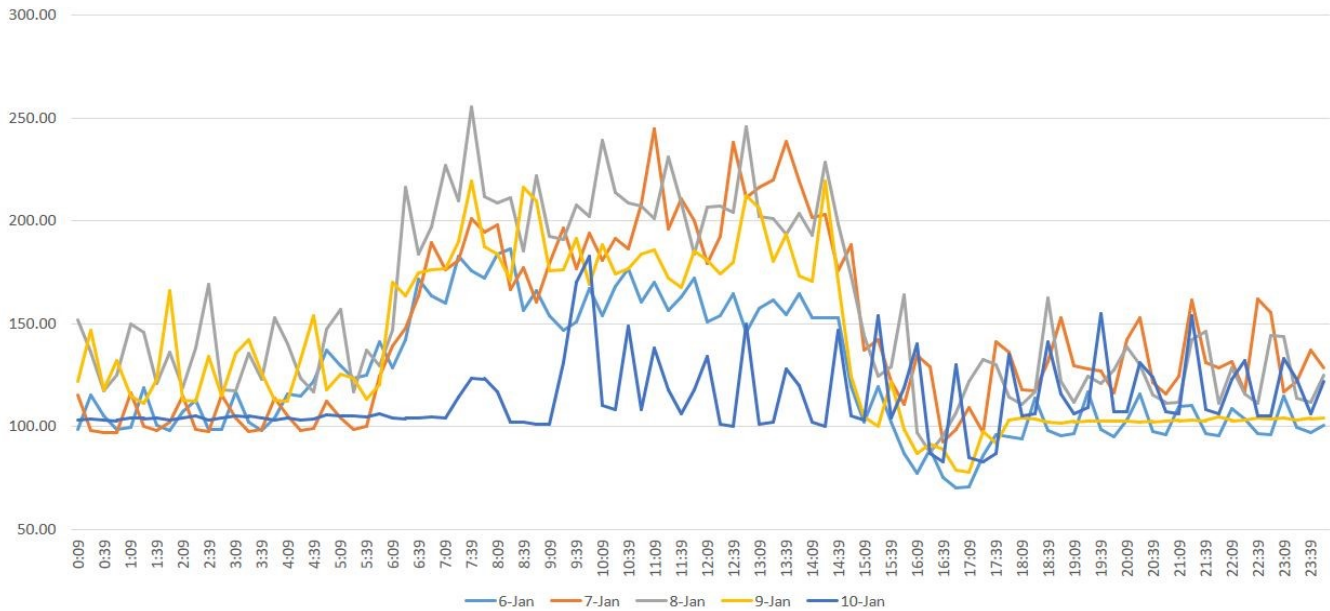
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MDMS UPDATE

ENERGY SAVINGS AT INDIANA ARMY NATIONAL GUARD
(CONT. FROM PG. 1)

CSMS 1 Air Systems
Monday-Friday 2015

about utilizing meter data to achieve energy savings, please notify us by email:
usarmy.coehuntsville.cehnc.mbx.armymeterhelp@mail.mil   We will help write the article for your review and approval
before sharing it in this newsletter.

MDMS V2 UPDATE

It is finally happening! The new hardware architecture needed to support a much improved and capable MDMS is being stood up by the Defense Information Service Agency (DISA). As reported in our last issue (June – July 2017), DISA and GDIT are currently on schedule to launch MDMS V2 beginning in March 2018. Refer to the June – July 2017 newsletter for the list of new functional capabilities planned for MDMS V2.

To minimize the wait time, we plan to provide users access to the MDMS V2 pre-production environment by the end of March rather than wait until August 2018 when DISA completes stand-up of the new production environment. The MDMS V2 end state will have two MDMS environments — pre-production for testing and refining new functionalities (with user participation), and production for hosting all the completed and user-proven functionalities.

Why does it take so long to stand up the new MDMS? The short answer is MDMS is a very large, highly transactional database system that "shares the road" with the Army's .mil network, importing data from both within and outside the

Army's IT domain. For these reasons, each application must be carefully configured, tested and verified for proper function and cybersecurity — first by the MDMS operating contractor then by DISA. The MDMS V2 deployment schedule is actually ambitious. By comparison, it took more than a year to stand up the considerably smaller MDMS V1 environment at the DISA hosting facility.

Concurrent with MDMS V2 deployment, the MDMS team is planning the incorporation of a commercial-off-the-shelf (COTS) software to expand the functional capabilities of the MDMS. The goal is to make the initial launch of the COTS coincide with MDMS V2 debut. The timing of COTS is predicated on availability of FY18 funding, timely approval of the Certificate of Networthiness and completion of additional server space allocation/configuration work by DISA prior to March.

Future newsletters will report the status of these efforts and will describe the new and improved functionalities the selected COTS will offer when it debuts within the MDMS. Stay tuned!

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MDMS UPDATE

NEW SITES REPORTING TO MDMS

The MDMS welcomes two new sites! The Iowa Army Ammunition Plant in Middleton, Iowa, and Holston AAP in Kingsport, Tennessee, are now reporting meter data to the MDMS — currently five electric meters at Iowa AAP and two electric meters at Holston AAP. Expect many more meters will be added now that the reporting infrastructure is in place for Iowa and Holston. Kudos to all involved in working together to bring these two sites online to the MDMS!

Ammunition plants are managed by the Army Materiel Command. Consisting of mostly manufacturing facilities, AMC sites present a unique challenge for the MDMS. The usual contextual information about a metered facility such as square footage, category use code, etc., do not have much relevance when applied to an industrial facility. Instead of energy use intensity in terms of MBtu per square foot, the more relevant metric for manufacturing facilities would be MBtu per production unit. Production quantities, especially about an ammunition plant, would certainly raise the data sensitivity level for the MDMS, making system access more restrictive for everyone. The better solution for AMC (currently available) would be to export the meter data within MDMS to Excel and then add the monthly production details by and for only those persons having a need to know.

VIDEO TUTORIALS UPDATE

Training videos for MDMS report generation have been recorded and uploaded to the Army Meter Service Desk website. If you have trouble accessing the site from within MDMS, simply click the red "Support" option located on the MDMS dashboard's navigation bar, to the right of the Home option. This will present a form that is prepopulated with your name, your AKO ID, your default site and the current date, which is at the bottom of the form. You may then enter your phone number, email address, select the feedback category and then fill in the specific details of the request. Click Submit to send the form to the AMSD.

The video tutorials have also been uploaded to the milTube website for viewing. Be sure to choose your DOD email certificate associated with your CAC when accessing the site. Both the milTube and AMSD websites will continue to be updated, as more video training tutorials become available. Below are the links for the tutorials.

- Meter Data Management System - Quick Reference Usage Report: https://www.milsuite.mil/video/watch/video/17036
- Meter Data Management System - Army Meter Service Desk website: https://www.milsuite.mil/video/watch/video/17033
- Meter Data Management System - Energy Use Intensity Report: https://www.milsuite.mil/video/watch/video/17032
- Meter Data Management System - Meter Status Roll-Up: https://www.milsuite.mil/video/watch/video/16969

In addition, the webinar overview slides are also available on the AMSD website at: https://army.deps.mil/NETCOM/EEDRS/AMSD%20Knowledge%20Base/MDMS%20Webinar%2020170906%20Presentation.pdf. You can also download the MDMS User Manual in either Microsoft Word or PDF format from the MDMS Support option by selecting the link corresponding to the desired format at the top of the MDMS Support page.

The MDMS will issue an email notifying all MDMS users of the availability and provide the corresponding link(s) to new video tutorials. Users are highly encouraged to view the training tutorials prior to participating in scheduled MDMS webinars via the Defense Collaboration System, which is more suitable for Q&A and sharing of lessons learned than for live demonstrations of the MDMS.

If you have trouble with any of the options or links in this story, please contact the AMSD help desk directly at usarmy.coehuntsville.cehnc.mbx.armymeterhelp@mail.mil.

MDMS UPDATE

UPCOMING ENERGY EVENTS

This brief listing of major upcoming energy conferences, events and workshops may be of interest to Army and National Guard energy managers. Listing of these meetings does not imply endorsement by the U.S. Army or the U.S. Army Corps of Engineers.

World Energy Engineering Conference
Sept. 27-29, Atlanta
Presented by the Association of Energy Engineers, WEEC is recognized as one of the most important energy conferences for energy professionals and end users across the energy field. Learn more about how the regulatory developments and industry trends all merge to shape your critical decisions, as well as define what specific steps are needed to achieve optimum energy efficiency and performance within your organization. For more information or to register: www.energycongress.com/.

Rocket City Summit
Oct. 16-17, Huntsville, Alabama
Joint event hosted by the Society of American Military Engineers Huntsville Post and Energy Huntsville. Focused on Energy, Resiliency, and Facilities. Speakers and panelists will discuss government and commercial challenges and opportunities, emerging energy investment business models, and disruptive technologies leading the wave of innovation. Two special, separate networking events this year: the "Doing Business with Energy Primes" (see above right) and the "Green Tie Bash: Honoring Champions of Energy" Awards Banquet. For more information or to register: www.rocketcitysummit.org.

Doing Business with Energy Primes — Meet the Energy Services Companies (ESCOs)
Oct. 17, Huntsville, Alabama
Hosted by The Catalyst Center. This event is designed for small government contractors who are doing business in the energy industry or want to do business in the energy industry. Come meet the companies who have contracts with the U.S. Army Engineering and Support Center, Huntsville, to perform Energy Savings Performance Contracts and learn what subcontracting opportunities they may have for you. To register for this event: www.catalystcenter.org .

Energy Symposium
Nov. 12-14, Rancho Mirage, California
Premier networking event for energy professionals. Designed to help you do your job better by giving you in-depth training on the latest energy-saving strategies, products and services. Learn about new applications from the experts on successful case studies and projects. The annual industry-created training event will encompass distinct tracks with sessions comparable to what has been offered at past seminars (i.e., financing, energy security / fundamentals / alternatives, new technologies, O&M, sustainable design, lighting, water conservation, renewables, etc.). For more information or to register: www.energy-symposium.org/.

NAESCO Annual Conference & Vendor Showcase
Nov. 14-16, Los Angeles
Presented by the National Association of Energy Services Companies. The leading ESCOs will be represented, plus Vendor Showcase will display the latest innovations, technologies and services in the energy efficiency industry. Current content, meaningful networking, a memorable venue. For more information or to register: www.naesco.org/conference-2017.