DEPARTMENT OF THE ARMY
US ARMY INSTALLATION MANAGEMENT COMMAND
HEADQUARTERS, UNITED STATES ARMY GARRISON, FORT JACKSON
4325 JACKSON BOULEVARD
FORT JACKSON SC 29207-5015

IMFJ-PWE (200-1) APR 30 2015

MEMORANDUM FOR ENVIRONMENT & ENERGY MEETING ATTENDEES

SUBJECT: Minutes of Environment & Energy Meeting

1. Under the provisions of AR 200-1, "Environmental Protection and Enhancement," and AR 420-1, "Army Facilities Management", the Fort Jackson Environmental Quality Control Committee (EQCC), Qualified Recycling Program (QRP) Board Members, and Garrison Energy Steering Committee met at 1430, 16 April 2015, in the Post Conference Room.

2. Attendees: 19 Members present.

3. Agenda: QRP Update, EPAAS Results, New Hazardous Material Tracking System Update, Upcoming Environmental Events, and Energy Update.

4. Significant discussion points:

a. Mr. Andy Poppen, Environmental Division Chief, welcomed the committee members and thanked everyone for attending. He briefed on the results of the February 2015 Environmental Performance Assessment and Assistance System (EPAAS) Audit and stated that we had 4 major EMS findings that need to be corrected within six months. He provided an overview of all 38 findings from the audit. He also briefed the new Hazardous Material Tracking System (called EESOH-MIS), informed the group about the proposed training this fall and upcoming Environmental events.

b. Ms. Yvonne McCarty, DRM-Mission, reviewed the Financial Report, as of 31 March 2015. It was recommended that the balance of funds available in the Installation Recycle Funds Status Report be split 50/50 between QRP projects and MWR. A motion was made to distribute MWR's share immediately- it was approved unanimously.

c. Mr. Matt Gibbs, Energy Manager, briefed the Energy Conservation Requirements, Energy Intensity, FY14 Installation Energy Performance, Army Energy Performance Trend (1st Qtr, FY15), Goal Performance Comparison with other services and the Army Metering Program.

5. The meeting was adjourned at approximately 1510.

MICHAEL S. GRAESE
COL, AD
Commanding

Environment & Energy Meeting

(Combined Environmental Quality Control Committee, Recycling Board, and Garrison Energy Steering Committee Meetings)

16 April 2015

Agenda

1. QRP Financial Report- Yvonne McCarty
2. Qualified Recycling Program: Awards, Projects, Shred Day – Ernest Dicks
3. EPAAS Results from Feb 2015 Audit- Andy Poppen
4. New Hazardous Material Tracking System Update
5. Upcoming Environmental Events
6. Energy Update – Matt Gibbs
7. Open Discussion
8. Closing Remarks - COL Graese

QRP Financial Report

Yvonne McCarty
Resource Mgt

Qualified Recycling Program (QRP)

Ernest Dicks

Recycling Center Manager

Recycling Winners
1st & 2nd Qtrs

1st Qtr

- Large Units – Moncrief ($1130)
- BCT Units – 3/34th ($1035)
- Other Units – ATC ($250)

2nd Qtr

- Large Units – Moncrief ($1240)
- BCT Units – 3/34th ($1000)
- Other Units- NIACT ($300)

Status of Last Cycle's Approved Projects

- Maintenance of storm-water detention pond near new Army Lodge
  - Completed

- Purchase recycle containers & collection bins for desk-side, common area use
  - Completed

QRP- Shred Day

- 21,000 lbs of paper shredded on 20 Feb
- Next Shred Day- 20 May

For Questions or Additional Information:

Ernest Dicks

Recycling Center Mgr

(803) 751-4208

Ernest.b.dicks.naf@mail.mil

EPAAS Results from the Feb 2015 Audit

EPAAS Results

- Audit was 2- 5 Feb
- Team was from IMCOM HQ
- 38 total findings
  - Four are “major” under EMS
    - Ineffective communication b/n org’s
    - Documents/procedures not updated
    - EMS objectives/targets not maintained
    - Operational controls not implemented

Fort Jackson	FY 15

Environmental Management System (EMS)		
Conformant Elements	**Major Nonconformance**	**Minor Nonconformance**
6	4	8

Environmental Compliance Assessment					
	Regulatory			**Management**	
	Class				
Medias	**I**	**II**	**III**	**POS**	**TOTAL**
Air Emissions (AE)	3				3
Asbestos (AS)	1				1
Environmental Noise (EN)			1		1
Hazardous Materials (HM)					
Hazardous Waste (HW)	4				4
Natural Resources (NR)	1		1		2
Petroleum, Oils and Lubricant (PO)	3				3
Pollution Prevention (PP)					
Solid Waste Management (SW)					
Storage Tank Management (ST)	3				3
Waste Water Management (WW)	8				8
Water Quality Management (WQ)	1				1
TOTAL	24		2		26

EPAAS Results

- Next Steps:
  - We are in the Corrective Action phase
  - We have 6 months to correct the 4 major EMS findings.
  - ENV will visit and work with all org's that have findings- we must verify that the finding is corrected.
  - ENV will track the correction status of all findings in AKO.

New Hazardous Material Tracking System Update

New Hazardous Material Tracking System

- **Enterprise Environmental Safety and Occupational Health- Management Information System (EESOH-MIS)**
- Online system for tracking hazardous materials
- Army-wide implementation
- Other capabilities:
  - Access safety data sheets (SDS)
  - Online requests for authorized products
  - Approval mechanism for new products
  - Generate reports for regulatory purposes
- Uniform management across installation and Army

EESOH-MIS Requirements

- EESOH-MIS is required at **all** locations where hazardous materials are purchased, used, stored.

- Identified users:
  - **LRC** (proponent)
  - **ENV** (coordination/approval)
  - **Safety** (approval)
  - **Preventive Medicine** (approval)
  - **Reuse Center, LCI-SSC, SSA** (issue points)
  - **81st RSC, TACOM, DPW, DPTMS, AAFES, MWR**

- Training will be provided for all users of the system

EESOH-MIS Training

- Proposed training (Fall 2015)- TBA
- Location: Army Continuing Education Center
  - Computer access required
- Sessions for individuals (end users) are 4 hrs
  - Same class given over a 4 day span
- LRC, ENV, Safety & Prev' Med' need to attend the 8 hr session
- **Training includes**:
  - Introduction to EESOH-MIS and user instructions
  - Review and approving materials

EESOH-MIS Preparation

- Notification will be provided about training dates, and registration process
- LRC is currently working with organizations to formalize authorized usage lists (AUL)
  - Vital component of EESOH-MIS
- Organizations are responsible for ensuring their personnel attend training

Upcoming Environmental Events

- **Earth Day Activities & Big Day Out, 18 April**
  - 8:00- 14:00 Semmes Lake
  - Everyone Welcome!
  - Fun Events for both Kids & Adults
  - Collecting E-waste, tires & batteries

- **Environmental Compliance Officer Training**
  - 19- 20 May, Post Safety Center

Environmental Take-Aways

- **Correct your EPAAS finding(s), ENV will help and coach you.**

- **Standby for a notice on EESOH-MIS trng, if your org' uses or buys Hazardous Material ensure the right folks attend the trng.**

For Questions or Additional Information:

Andy Poppen

Chief, ENV

(803) 751-7702

Andrew.g.poppen.civ@mail.mil

Energy Update

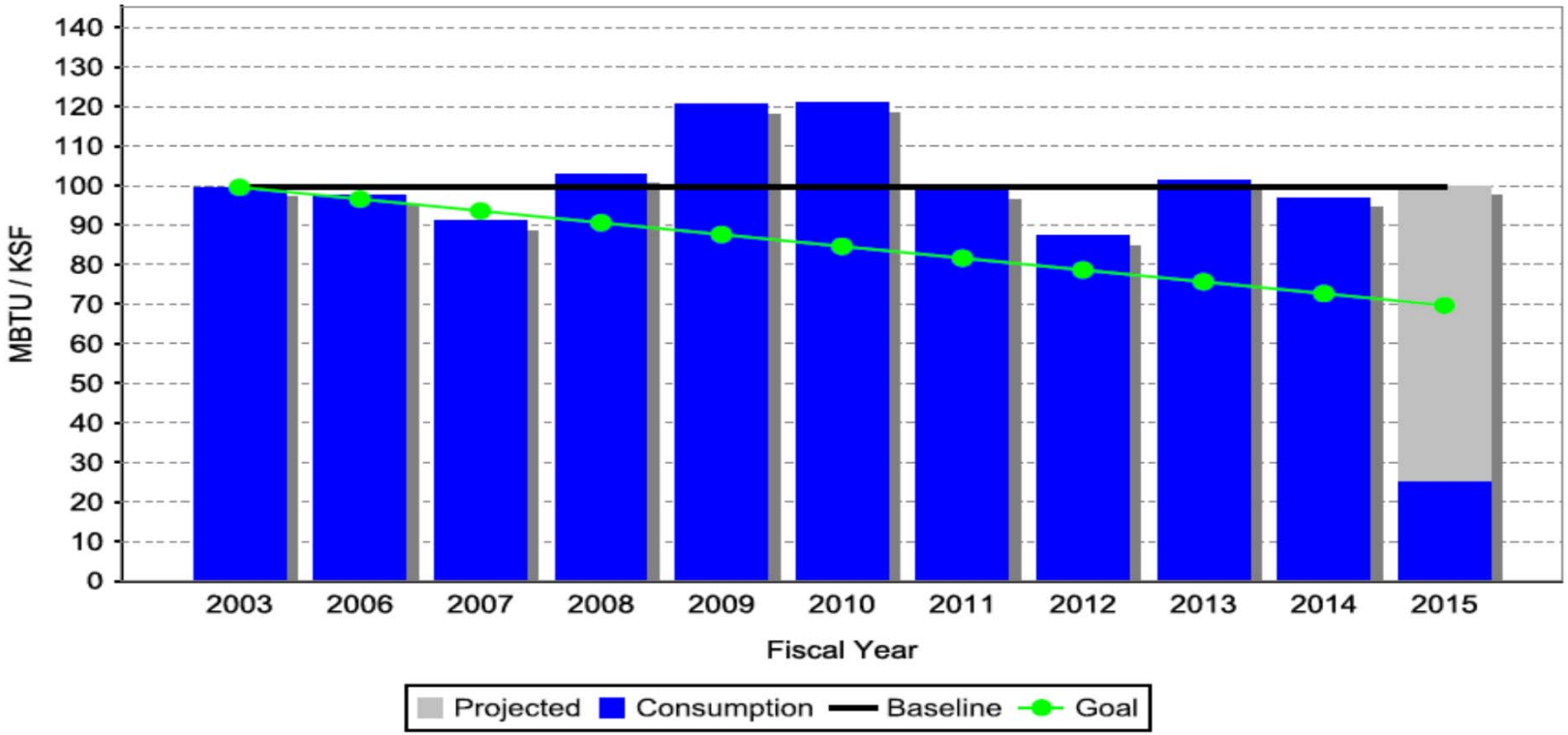
Matt Gibbs

Energy Manager

Energy Conservation Requirements

- The Energy Policy Act (EPACT) of 2005 established an energy efficiency goal for all federal agencies of 3% reduction in energy intensity per year from 2005 to 2015, for a total of 30% energy intensity reduction, compared to the base year of 2003 energy consumption of 99.6 MBTU/KSF.
- FY13 energy consumption was 100.8 MBTU/KSF or a 1.0% increase.
- FY14 energy intensity was 96.8 MBTU/KSF or a 2.8% decrease.

Energy Intensity

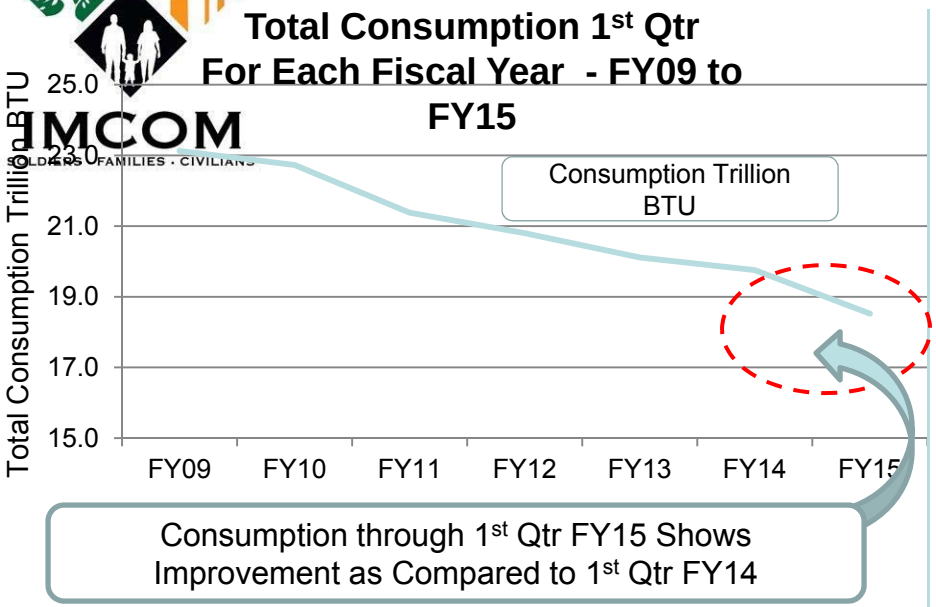


If a projected bar is shown for the current fiscal year, the blue area is based on actual consumption and KSF data entered, while the gray area projects the year end consumption per unit area if consumption continues at the same rate.

FY14 Installation Energy Performance

Mandate	Congressional / OMB Goal	Army FY14 Score	Army Trend	Performance	Issues/Actions
	Reduction in Potable Water Intensity: **EO 13514 -** Reduce consumption by 2% annually for 26% total by FY2020 (FY2007 baseline)	Score: Green		•**27.1% reduction vs 14% goal**	•Army remains ahead of all Federal Goals and Mandates for potable water reduction
	Reduction in Fleet Petroleum Use: EO 13423 - Reduce by 2% per year thru FY2020 (Base FY2005)	Score: Green		•**38.4% vs 18% goal for petroleum reduction** • **Improvement of 4% in FY2014 vs a 2% annual goal**	• Already achieved level of reduction to meet goal, 7 years ahead of schedule • Reduced 15,000 vehicles through FY2014 with further reductions in FY2015
	Reduction in Energy Intensity: **EISA-** Reduce 3% per year to total by 30% by FY2015 (FY2003 baseline)	Score: Red		• **1.0% decrease in energy intensity vs. a 3% annual reduction goal** •**-15.2% vs -27% cumulative goal**	•Executed 18 ESPC Task Orders with total value of $326 Million in FY2014 – leading Federal government. • Expanding Net Zero initiatives across all Army installations.
	Green Buildings: 15% of new and existing buildings are sustainable by FY2015	Score: Red		•**1.25% of Gross Square Footage of inventory sustainable**	• The Army invests in projects to improve building performance and sustainability, based on lifecycle return on investment • The enormous inventory of existing buildings continues to be the challenge.
	Use of Renewable Energy: **EPAct 2005-**At least 3% of total electricity consumption (FY2007-09); 5% (FY2010-12); 7.5% (FY2013 +) **NDAA10-**25% by FY2025	Score: Amber		• **2.0% vs 7.5% goal – EPAct 2005** •**11.3% toward goal of 25% by FY2025 – NDAA**	•More than doubled last year's consumption performance •Approximately 400 MW of renewable energy production in procurement or construction facilitated by OEI
	Greenhouse Gas Reduction: Scope 1&2: 34% by FY2020, Scope 3: 13.5% by FY2020	Score: Amber		•**On track to meet Scope 3 goal, but not Scope 1 and 2**	• Scope 1&2 are dependent on the energy goals

Army Energy Performance Trend – First Quarter FY15



Situation

- Statute requires reduction in energy intensity of -3.0%/yr to achieve -30.0% reduction by end FY2015.
- Army achieved -15.2% reduction thru end FY14 – we are lagging behind goal, rated **RED**.
- Downward trend stalled in FY13; however, in FY14 through 1st Qtr FY15, Army performance is improving.

Determining Energy Intensity Change 1st Qtr FY15 vs. Same Period FY14

$$= \frac{\text{Energy Consumption}}{\text{Building Square Footage}}$$

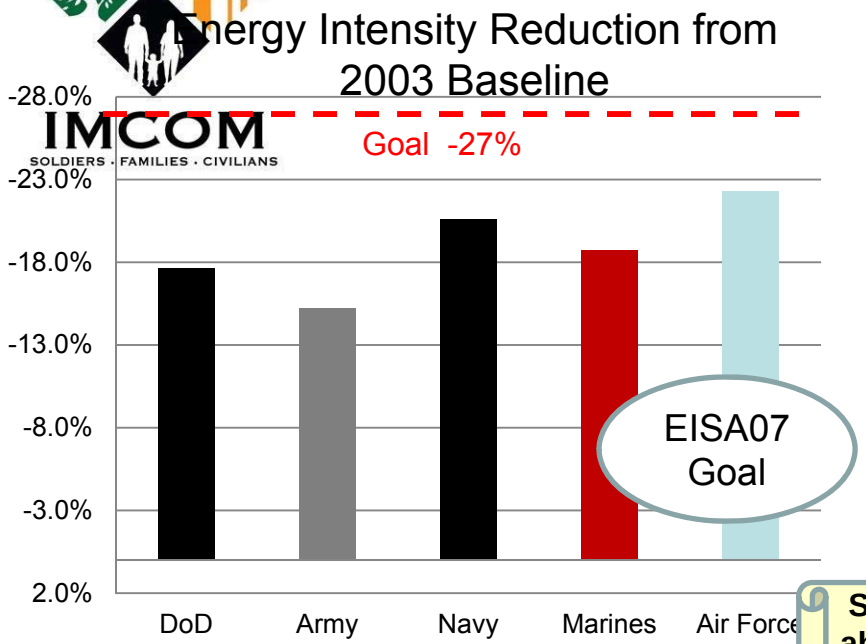
	1st Qtr FY14	1st Qtr FY15
Energy Consumption BBTU	19,751.5	18,523.5
Building Square Footage KSF	810,295.0	807,034.0
Energy Intensity (Btu per sq.ft.)	24,375.7	22,952.6
Change in Intensity FY14 to FY15		**-5.8%**

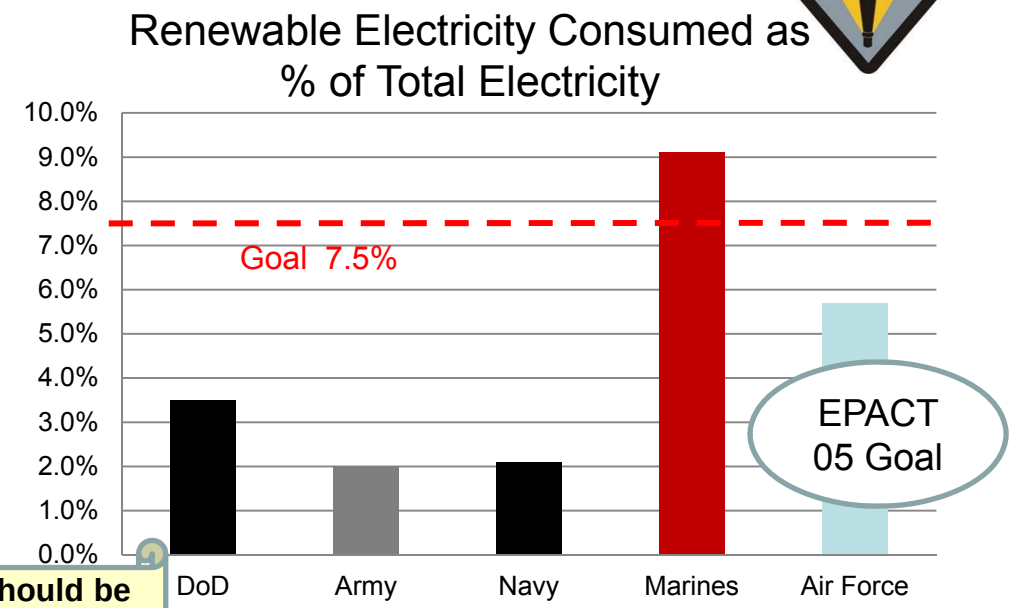
Better Than Goal: -3%

Issues

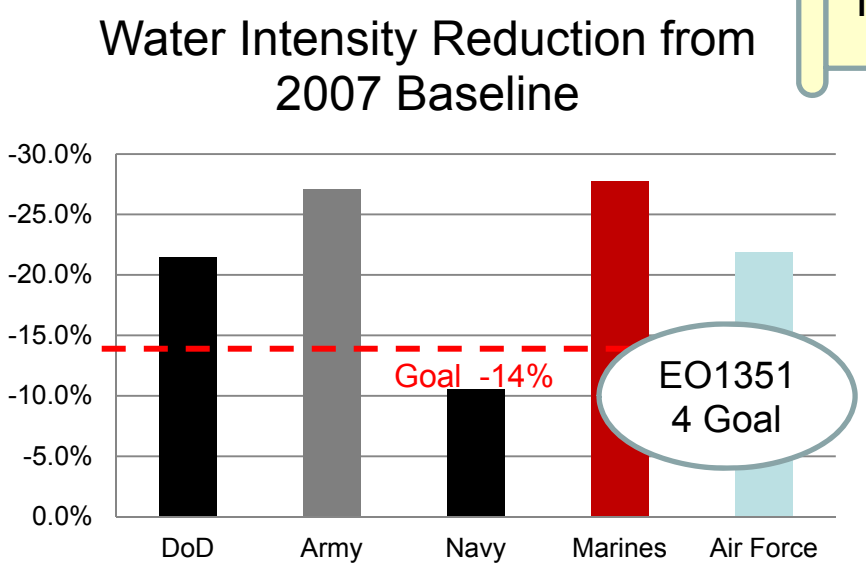
- Ongoing actions to reconcile square footage data – potential for adverse impact on energy intensity metric (Btu per sq. ft.)
- Reduction in SRM funding increases burden on awareness and management initiatives to achieve required energy reductions

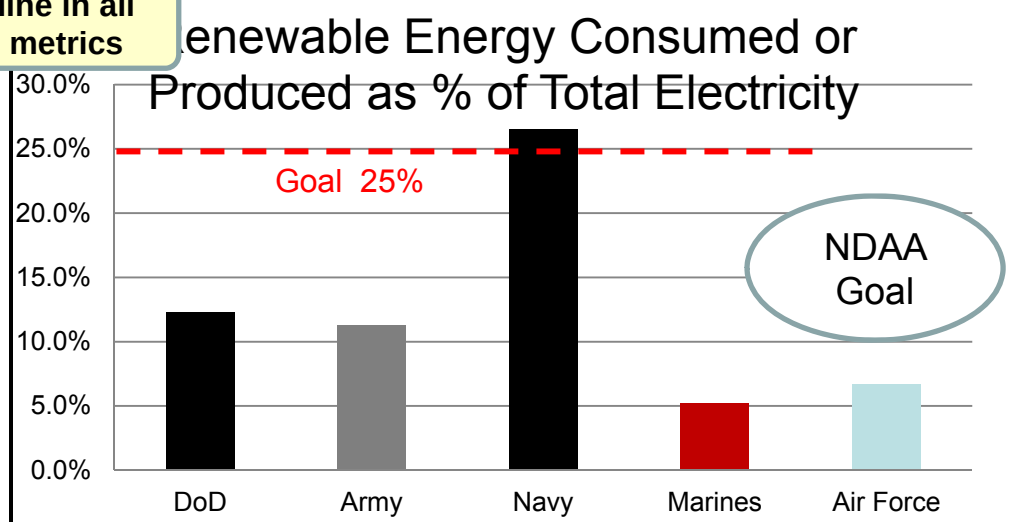
Goal Performance Comparison with Other Services





Should be above Goal line in all metrics

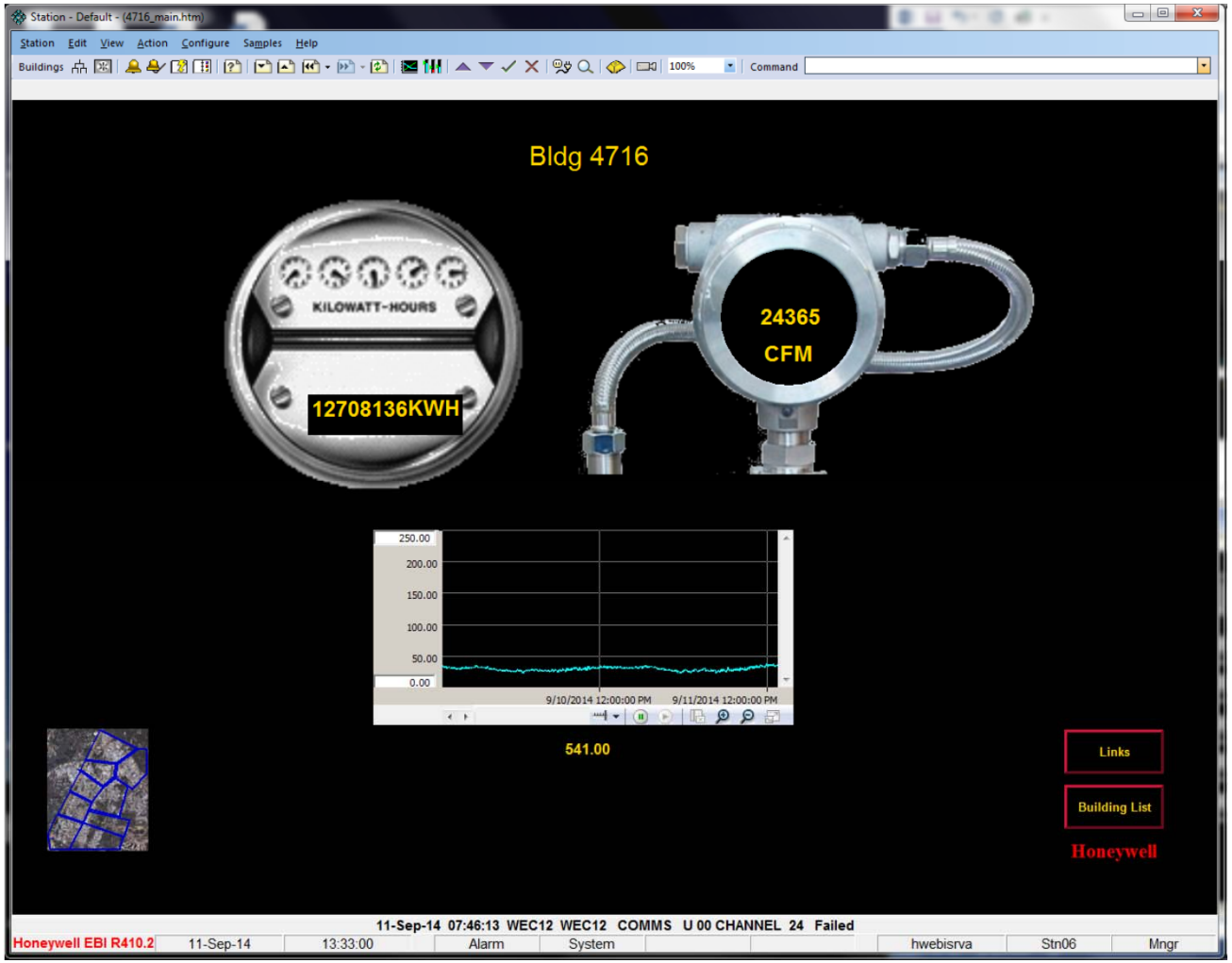




Army Metering Program

- Per IMCOM directive all buildings over 29,000 SF are required to have advanced meters (advanced meters are capable of taking 15 minute readings and generating an output to store the data remotely).
- IMCOM is in the process of centralizing meter data (Fort Jackson under construction).
- Remember: Meters do not save energy.

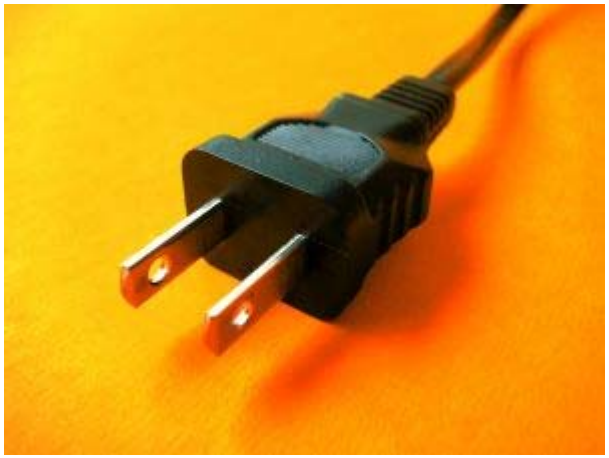
Example Meter



Electronics

Unplug electronics, battery chargers and other equipment when not in use. Taken together, these small items can use as much power as your refrigerator.

An adapter that has earned the ENERGY STAR meets strict energy-efficiency guidelines set by the US Environmental Protection Agency (EPA) and the US Department of Energy (DOE). On average, **30% more efficient** than conventional models.



Closing Remarks
COL Graese

INSTALLATION RECYCLE FUND STATUS
AS OF 31 MARCH 2015

	CURRENT STATUS	TOTALS
BEGINNING BAL AS OF 1 OCT 14		$ 1,125,468.35
COLLECTIONS:		
APF-OCT 14	$ 20,703.91	
NOV 14	$ 17,882.70	
DEC 14	$ 13,997.62	
JAN 15	$ 15,233.87	
FEB 15	$ 9,243.88	
MAR 15	$ -	
TOTAL COLLECTIONS:		$ 77,061.98
DISBURSEMENTS:		
APF Expenses		
NAF Expenses (Jun14-Jan15)	$ 203,676.16	
NAF % OF Collections		
Recycle Containers	$ 28,196.00	
TOTAL DISBURSEMENTS:		$ 231,872.16
BALANCE IN ACCOUNT		$ 970,658.17
OUTSTANDING COMMITMENTS:		
NAF Operating Expense		
Feb-15	$ 20,100.18	
TOTAL COMMITMENTS:		$ 20,100.18
BOARD APPROVED PROJECTS:		
Front Load Dumpster	$ 5,000.00	
Wall Enclosure at QRP	$ 5,000.00	
TOTAL QRP PROJECTS:		$ 10,000.00
TOTAL OTHER PROJECTS:		$ -
TOTAL APPROVED PROJECTS		$ 10,000.00
AVAILABLE FOR PROJECTS:		$ 172,471.31
ESCROW ACCOUNT		$ 400,000.00
TOTAL FUNDS AVAILABLE		$ 368,086.68

Note: MWR reimbursed expenses Nov14-Jan15 of $67,447.79 less $200.00 over payment for Jun14-Aug14 expenses for a total reimbursement of $67,247.79

INSTALLATION RECYCLE DRIVER LABOR COSTS
AS OF 31 MARCH 2015

	CURRENT STATUS	TOTALS
LABOR COSTS:		
Sep 14	$ 1,698.88	
Oct 14	$ 1,698.88	
Nov 14	$ 3,009.54	
Dec 14	$ 2,783.32	
Jan 15	$ 2,141.60	
Feb 15	$ 3,009.54	
TOTAL LABOR COSTS:		$ 14,341.76