



Camp Pendleton Basewide Metering Program

An overview of the 5 W's



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“WHY”

Section 103 States – By October 1, 2012,...all Federal buildings shall, for the purpose of efficient use of energy and reduction in the cost of electricity used in such buildings, be metered...advanced meters or advanced metering devices that provide data at least daily and at least hourly shall be used.

www.eere.energy.gov/femp/pdfs/adv_metering.pdf



“WHAT”

- Electric Meters (Itron Sentinel)– **308** meters
\$1.2M, installed under Phase 8 UESC
- Water Meters – (Badger RTR) **15** meters,
\$145K, installed under Phase 9 UESC
- Natural Gas Meters (American) – **59** meters,
\$181K, installed under Phase 9 UESC
- Meter Reading Equipment – Itron G5 Handheld,
Itron Mobile Collector, probe
- Software – Itron MV-RS, Energy Cap



“WHO”

- Meter Reader
- Technical Support- Both on Hardware and Software side
- Energy Staff
- Fiscal Utility Staff- billing support
- Ford Escape Hybrid





“WHERE”

- All reimbursable customer locations
- Point-of-Entry Water meters installed in family Housing Areas
- Substations across Camp Pendleton
- Non-reimbursable, top 250 utility consumers





“WHEN”

- Phase 8 (308 electric Meters) Completed in 2006
- Phase 9 (61 Natural Gas and 15 Water Meters) – Under construction some meters installed – to be completed in 2007
- Expansion through additional Energy Projects
- Requirement for all new construction and major renovation
- Future – Tie in to Base-wide EMS system



Lessons Learned

- Select the right meter- check capabilities
- Software capability – Does it provide you all the information you need
- Personnel - People come and go
- Compatibility – downloading data from mobile collector to energy database
- Location of meters – Accessibility
- Squirrels/ Rabbits/ local residents



For More Information

- Would you like to know more about this session?
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Don't forget to fill out and drop off your session evaluations!



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