



Air Force REM Activities

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(Northrop Grumman contract support)



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REM Shot

- The Need
- The Uses
- The Benefits





The Need for REMs

Taskings/Opportunities





The Need

- Air Force Bases
 - Small cities with all the opportunities for energy conservation.....and waste
 - Diversified infrastructure
 - Old – New – and everything in between
 - Variety of missions and facilities
 - Administration, housing, industrial.....etc
 - Energy Managers are multi-tasked



The Need

- Major Commands
 - Oversee from 1 to 20 bases
 - Provide guidance and oversight to bases
- AFCESA
 - Develops AF guidance
 - Provides technical support



The Uses

- 26 REMs AF Wide
 - 17 at Bases
 - 8 at Major Commands
 - 1 at AFCESA





The Uses – Base REMs

- Energy audits
- System analysis
- Project development and surveillance
 - Government funded
 - Third Party Financed
- Utility rate reviews
 - Erroneous schedules and charges
 - Tenant Billing
- Base energy awareness and training



The Uses – MAJCOM REMs

- Technical expertise
- Cross feed focal point
- Project reviews
- Energy conservation advocate
- Procedures and guidance development
- Works staff issues



The Uses

- MAJCOM Traveling REMs
 - Assists bases with identifying/developing energy savings projects...save energy & money
 - Assist in programming and reviewing projects
 - Identify funding avenues
 - Advocate for energy conservation awareness
 - Idea cross pollination



The Uses - Specialized

- Spreading the Expertise
 - May be selected for specific need
 - May travel to other bases for assistance
 - Specialized expertise for program, guidance and policy development

Blend them in - Make them part of the team -
Take advantage of expanded knowledge base



The Benefits

~ “Never in the field of energy conservation is so much owed - by so many - to so few”

Winston Churchill

Great Britain, 1941





The Benefits

- Variety of capability and talent
 - Project development
 - Audits
 - Awareness – marketing
 - Renewables
 - Utility Billing Reviews
 - Program Development



The Benefits

- Cross flow of information and ideas
- Bring specialized energy expertise
- Take load off Energy Manager
 - Focus on use reduction and cost saving





The Benefits

- Energy use and cost reduction
 - Substantial in both areas
- Return on Investment
 - Between 3 - 5 to 1



Bottom Line

- Energy Managers need help
- Lots of diverse opportunities & expertise

HOWEVER

- Increase or decrease depends on ROI





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New Orleans
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