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Resource Efficiency Manager Background and History

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Definition of REM

- Designated individual
- Often backed up by a company/team
- Contracted by a federal agency
- Performance based
- **Reduce energy and resource costs**

REM History/Context

Non-Federal

1993 –1995

Washington and Oregon utilities fund Resource Conservation Managers (RCM*) and see benefits from programs.

1995 – today

Non-federal public sector RCMs in cities, counties, school districts, state agencies including one major utility program. (Puget Sound Energy)

2009 - 2012

Recovery Act funding for Shared RCMs in non-federal public sector – 8 programs with a total of 39 member agencies.

* RCM is non-federal name for REM

REM History/Context

Federal

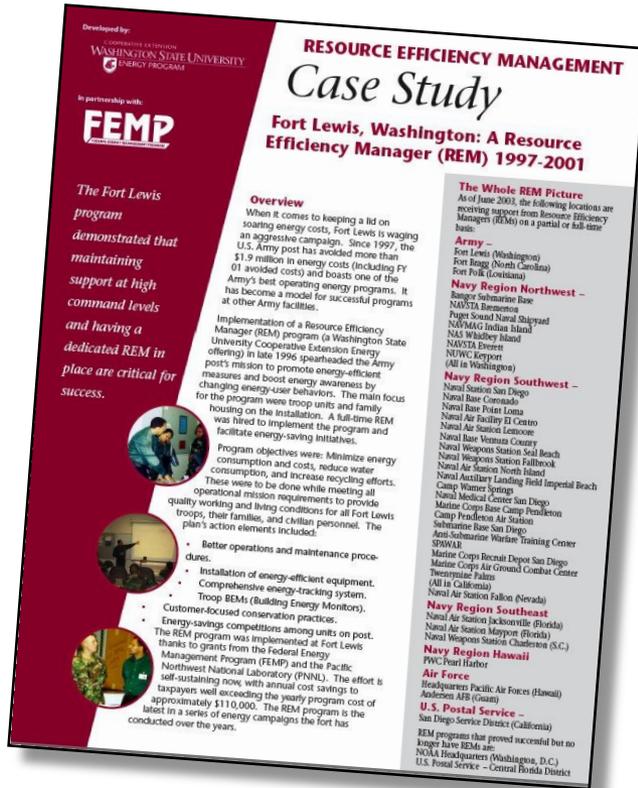
1996 – 1997

FEMP provided funding through FEMP/PNNL program

First Federal REM - Fort Lewis, WA (near Tacoma - now *Joint Base Lewis-McChord*)

REM program savings exceed costs by more than 3:1 and program was renewed.

Fort Lewis Success Story



1997 – 2001

Identified and implemented projects with annual savings totaling approx. \$1.6 million

1998

Secretary of the Army Energy and Water Management Award

1999

FEMP Energy Management Award

Charles Howell – First REM



Troop incentives, boiler plant, hot water savings, vending misers, CFLs, ESPC project, DDC controls, thermostats, fans, etc.

Check Point 2004

- Cumulative FEMP Investment 1996 to 2004: \$640,000
- 30 REMs
- Cost of projects identified since 1996: \$83 million
- Annualized cost for REM positions: \$3.5 million
- Annualized cost savings: \$12.3 million
- Annual return on investment: 350%
- REM Contract Renewal Rate: 85%

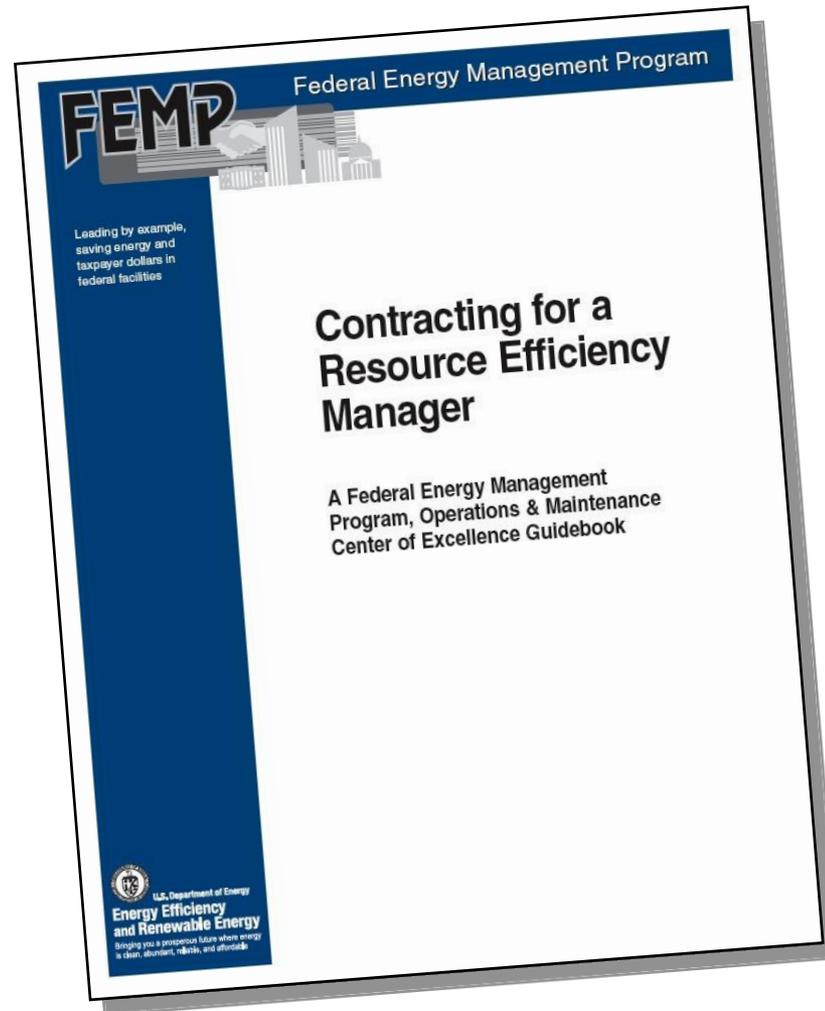
Check Point 2006

- 62 REMs
- 85% renewal rate
- Benefit/cost ratio is typically 3 or 4:1
- DOD had implemented the largest number of REMs
- GSA, Coast Guard USPS have some REMs

FEMP Program Support

- 2003 - FEMP formally adopts REM as part of FEMP O&M
- RCM News
- REM Workshops

More FEMP Support Contracting Guidance



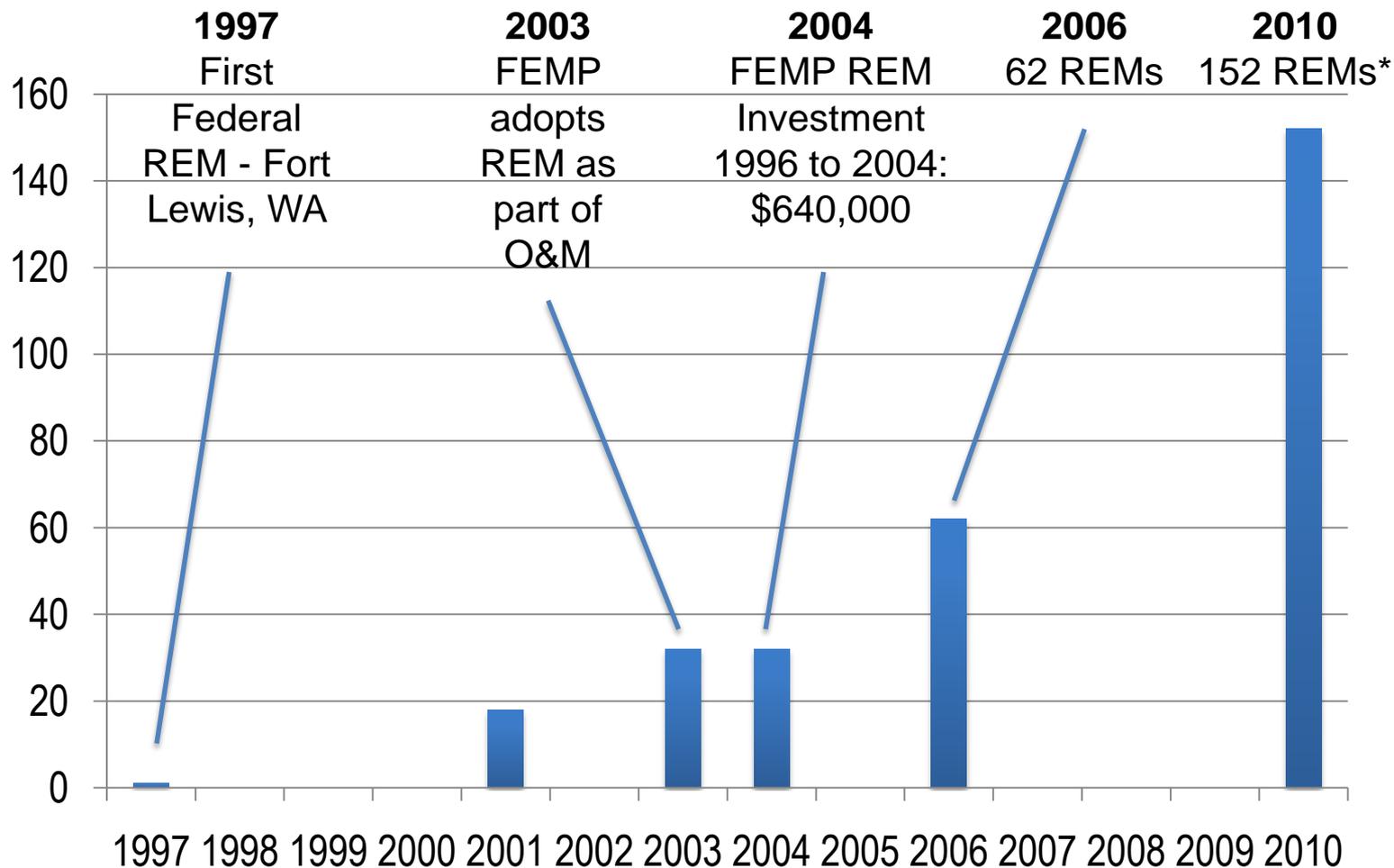
FEMP Started Something Good!

- Acknowledged as an important function within DOD
- Delivering value to agencies
- Long standing programs
- Growth in number of providers
- Growth in size of some provider companies

Current REM Status

- *Number of **REM/sites** - estimates*
- Air Force has centralized program
- Army is primarily site based
- Navy has regional programs
- Outside of DOD – Coast Guard and GSA

Number of REMs (estimated for 2010)



Estimated Number of REMs

	2003	2006	2010
Navy	32	29	40
Air Force	2	17	78
Army	3	9	19
Marine Corp	4	5	5
Coast Guard		1	8
GSA		1	2
U.S. Postal Service	1		
TOTAL	42	62	152

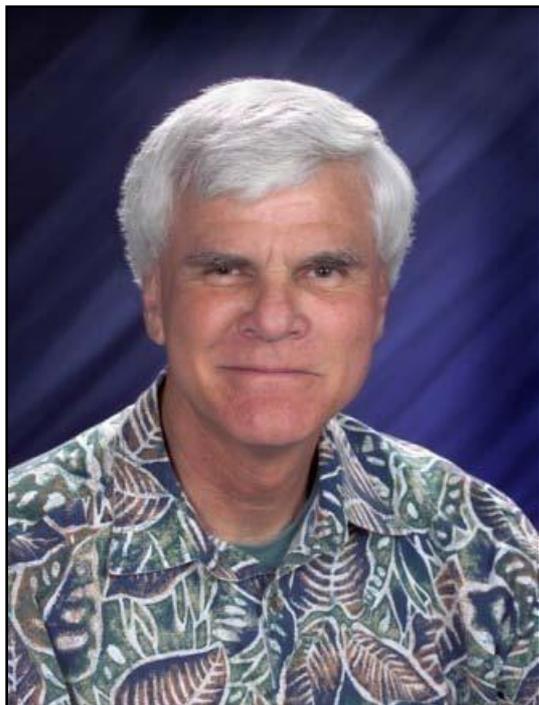
Where is REM Useful?

- Large sites
- Aggregated smaller sites (within limits)
- Where additional technical support is needed

What is Success?

- Add technical knowledge
- Serve specific site needs
- Teamwork on site
- Energy projects identification/analysis
- Ultimately the implementation of projects
- Overall – **achievement of site energy and water use reductions goals**

Kudos



- Bill Sandusky, of the Pacific Northwest National Laboratory, has been a leader for the REM program that has saved large amounts of energy, water and money for Dept. of Defense sites.

Thank you

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