

SMUD's HVAC Programs

5-7-13

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SMUD's Residential AC & HP Program

Tier	SEER		EER		HSPF		Rebates
	Split	Package	Split	Package	Split	Package	A/C & HP
1	14.5	14.0	12.0	11.0	8.5	8.0	\$400
2	15.0	14.0	12.5	12.0	8.5	8.0	\$500
3*	16.0	-	13.0	-	-	-	\$650
4	-	-	14.5	-	-	-	\$1,100- \$2,000*

- Aqua Chill is currently eligible for a \$2,000 rebate (currently in Stage 3) – climate specific technology
- Stage Gate Process – 4 stage process for bringing new technologies into main stream programs
- Rebate application requires permit information – helps with code compliance
- Program requirements will be modified to account for new Title 24 standards
- SMUD's Residential Loan Program is available and also requires permit information

SMUD's Single Family Home Performance Program (HPP)

- Over 50 contractors trained and BPI certified
 - Majority were pushing only HVAC; now driving the HPP
- Program encourages more HVAC replacements to occur through HPP
 - Move away from stand alone programs
 - Start with a comprehensive home energy assessment (subsidized by SMUD)
 - Rebates up to \$5,000, plus special financing available (5.5% interest rate – lower than regular program)
 - Program offers “bonuses” for doing HVAC in HPP versus stand alone program
 - Right size - tonnage reduction bonus
 - Multi-measure bonus - start with building envelop
 - Higher overall rebate
 - More measures may be added soon
 - Thermostats (pending smart-grid pilot results)
 - Quality Maintenance incentives

Commercial HVAC

- Current programs that address HVAC
 - Savings by Design, Customized Incentives, Complete Energy Solutions
- On the horizon
 - Commercial Quality Maintenance and Quality Installation Program
 - Encourage maintenance of existing units
 - Early Retirement
 - Proper installation of new high efficiency equipment
 - Add-on Evap Cooling Technologies
 - Challenges: cost, uncertainty of effective useful life, contractor acceptance
 - Complete Energy Solutions
 - Comprehensive Approach – similar to Residential SF HPP
 - HVAC component should align with stand alone commercial HVAC offerings

What's needed?

- Tips/suggestions for enhancing existing programs & introducing new technologies in a cost effective manner.
- Regular interaction and updates from stakeholders
 - Helps annual program planning process
 - What's on the horizon for Title 24, CEE, etc?
 - Modify programs accordingly
 - Set appropriate goals and budget
 - Western HVAC Performance Alliance – great collaboration, keeps stakeholders connected, tackles CA strategic plan
 - Case studies