SMUD’s HVAC Programs
5-7-13

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SMUD’s Residential AC & HP Program

- 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 mainstream 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

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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