



Xcel Energy Steam System Optimization

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Heating System Optimization Studies

- Focus on entire system or system components
- Fund up to 75% if sufficient savings likely
 - \$30,000 cap per study
 - Examples: boiler replacement, pipe insulation assessment, steam-top-hot water, process improvements, heat recovery
 - Includes low/no cost improvements made during the study

Steam Trap Audits

- \$15 rebate per trap tested
- No preapproval required
- Any size steam system
- Commercial or industrial
- Must repair all failed traps to be eligible
- Every other year
- Internal labor
 - Commercial: no limit
 - Industrial/process: 1,000/year limit

Steam Trap Repair/Replacement

- Prescriptive rebate \$30/trap (plus 2011 bonus)
 - Commercial systems (space/domestic hot water)
 - Up to 30% process load
 - Subtract prescriptive from custom analysis
 - If analyzed is lower than deemed savings, would subtract out to actual
 - Otherwise claim additional as custom project
 - Must fail open; no orifice traps
- >30% process load = custom analysis

Estimated 2011 Steam Trap Impacts

■ Commercial

- 1,200 traps
- 647,000 therms
- \$67,000 rebates
- 10¢ per therm

■ Commercial/ Industrial Combo

- 350 traps
- 646,000 therms
- \$10,500 rebate
- 1.6¢ per therm

■ Industrial

- 207,000 therms
- \$0 rebate