

Proposed
Residential
Solar Water Heating Pilot
Program

Sustainable Energy
Conference

April 15, 2009

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Pilot objectives

- | Develop more precise estimates of the energy savings and coincident peak impacts achieved with residential solar hot water systems as compared to electric hot water systems
 - w Quantify the impacts of household demographics on savings
 - w Determine the seasonal impacts and incoming water temperature impacts on potential savings
- | Develop better estimates of the net participant costs of installed solar water heating systems
- | Identify any participant issues/perspectives on solar water heating technologies that may impact its success or adoption in NC (comfort, maintenance, overall satisfaction, etc.)

Pilot overview

- | \$1,000 incentive
- | Up to 150 participants
- | Participant pool representative of all regions
- | Eligibility
 - w PEC customers with electric hot water
 - w Single-family homes
 - w Primary residence

Tentative timeline

- | NCUC filing – mid-October 2008
- | Select vendors & participating customers – February 2009 – April 2009
- | Install monitoring equipment – May 2009 – July 2009
- | Monitoring phase – July 2009 – July 2010
- | Evaluation phase – mid-point evaluation in January 2010; final evaluation in August 2010

Questions?