Projected Savings from Showerhead Retrofit

Showerhead retrofit inputs and assumptions:

Retrofit Showerhead has flow rate of:

Average number of full bathrooms per home:

2.04 full bathrooms per home¹

4.67 people¹

1.75 gallons per minute³

% of water heated by gas: 37.28% ¹
% of water heated by electricity: 46.52% ¹

Installation / participation rate of: 45.74% ¹

Average Showerhead has a flow rate of: 2.50 gallons per minute²

Number of participants: 1,202 ¹

Shower duration: 8.20 minutes per day²

Showers per day per person: 0.67 showers per day²

Product life: 10.00 years³

Projected Water Savings:

Average household size:

Showerhead retrofit projects an **annual** reduction of: 1,892,698 gallons⁴
Showerhead retrofit projects a **lifetime** reduction of: 18,926,982 gallons⁵

Projected Electricity Savings:

Showerhead retrofit projects an **annual** reduction of: 115,684 kWh^{2,6} Showerhead retrofit projects a **lifetime** reduction of: 1,156,840 kWh^{2,7}

Projected Natural Gas Savings:

Showerhead retrofit projects an **annual** reduction of: 4,635 therms^{2,8}
Showerhead retrofit projects a **lifetime** reduction of: 46,354 therms^{2,9}

- 2 (March 4, 2010). EPA WaterSense® Specification for Showerheads Supporting Statement. Retrieved from http://www.epa.gov/WaterSense/docs/showerheads_finalsuppstat508.pdf
- 3 Provided by manufacturer.
- 4 [(Average Household Size x Shower Duration x Showers per Day per Person) ÷ Average Number of Full Bathrooms per Home] x (Average Showerhead Flow Rate Retrofit Showerhead Flow Rate) x Number of Participants x Installation Rate x 365 days
- 5 [(Average Household Size x Shower Duration x Showers per Day per Person) ÷ Average Number of Full Bathrooms per Home] x (Average Showerhead Flow Rate Retrofit Showerhead Flow Rate) x Number of Participants x Installation Rate x 365 days x Product Life
- $6\ Projected\ Annual\ Water\ Savings\ x\ Percent\ of\ Water\ that\ is\ Hot\ Water\ x\ 0.18\ kWh/gal\ x\ \%\ of\ Water\ Heated\ by\ Electricity$
- $7\ Projected\ Annual\ Water\ Savings\ x\ Percent\ of\ Water\ that\ is\ Hot\ Water\ x\ 0.18\ kWh/gal\ x\ \%\ of\ Water\ Heated\ by\ Electricity\ x\ Product\ Life$
- 8 Projected Annual Water Savings x Percent of Water that is Hot Water x 0.009 Therms/gal x % of Water Heated by Natural Gas
- 9 Projected Annual Water Savings x Percent of Water that is Hot Water x 0.009 Therms/gal x % of Water Heated by Natural Gas x Product Life

¹ Data Reported by Program Participants.