ENERGY STAR. The simple choice for energy efficiency.



ENERGY STAR® Water Heater Update

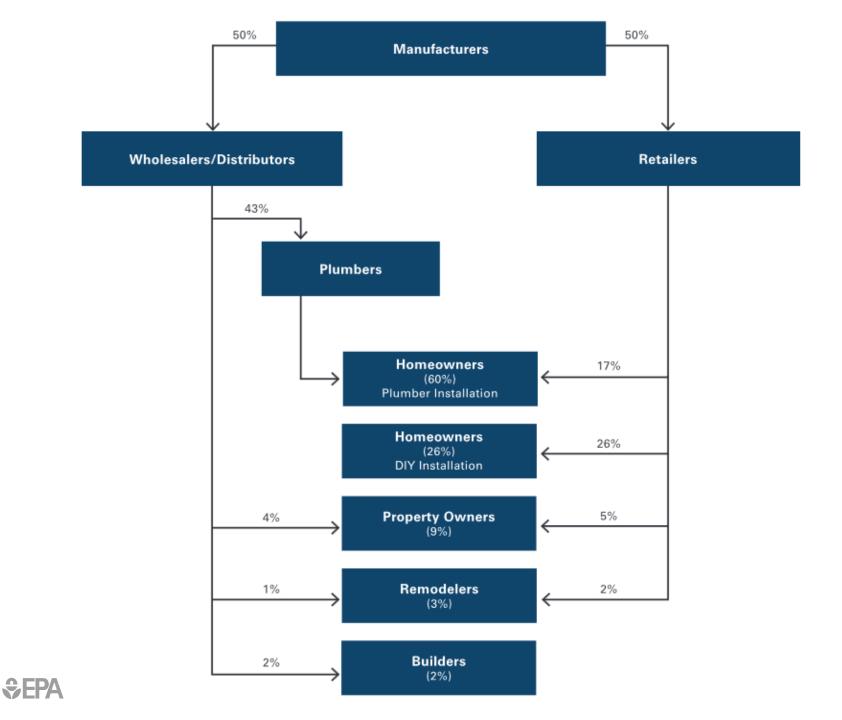
ACEEE Hot Water Forum February 26, 2017





Facts about Water Heaters

- Water heaters (WHs) = 17% of residential energy consumption!
- Cost households \$200 to \$600 annually in energy costs
- 96% market is storage WHs; 4% tankless
- Fuel used to heat water nationwide:
 - 39% electric
 - 53% natural gas
 - 4 % bottled propane gas
 - 4% other (fuel oil, wood, solar)





Types of ENERGY STAR Certified Water Heaters





Electric Storage

Gas Storage



Gas Tankless



Solar

Туре	ENERGY STAR specification
Electric Heat Pump	≤ 55 gallons: EF ≥ 2.00 > 55 gallons: EF ≥ 2.20
Gas Storage	≤ 55 gallons: EF ≥ 0.67 > 55 gallons: EF ≥ 0.77
Gas Tankless	EF ≥ 0.90
Solar	SEF ≥ 1.8 for electric backup SEF ≥ 1.2 for gas backup

In order to meet the version 3.0 specification (effective April 14, 2015), all electric storage units must use heat pump technology



ENERGY STAR Certified Electric Heat Pump Water Heaters

- Replacing your old electric water heater with an ENERGY STAR certified model can save a family of four \$330 a year.
- ENERGY STAR certified electric storage heat pump water heaters are **50%** more efficient than standard models.

Points of Differentiation for Certified Electric Heat Pump Water Heaters

- Installed since 2002, they are made by all the major water heater manufacturers and sold by major retailers and distributors
- They qualify for utility and energy-efficiency program rebates, and a federal tax credit.
- They use less than half the electricity of a conventional unit and save thousands of dollars in electricity costs.





ENERGY STAR Certified Gas Storage Water Heaters

- Replacing your old gas water heater with an ENERGY STAR certified gas storage model can save you \$105 over the course of the products lifetime.
- ENERGY STAR certified gas storage water heaters are 8% more efficient than standard models.

Points of Differentiation for Certified Gas Storage Water Heaters

- They are an easy technology to use: easy to have installed (replace with same gas, water, and exhaust hookups), easy to understand (uses simple energy efficient features, e.g., better insulation, heat traps, and more efficient burners), and easy to rely on (all major manufacturers make them).
- They qualify for utility and energy-efficiency program rebates, and a federal tax credit.
- They will save consumers on annual gas costs while providing no sacrifice in performance – there's no difference when compared to a standard gas water heater.



ENERGY STAR Certified Gas Tankless Water Heaters

- Replacing your old gas water heater with an ENERGY STAR certified gas tankless model can **save you \$90 a year**.
- ENERGY STAR certified gas tankless water heaters are 8% more efficient than standard models.

Points of Differentiation for Certified Gas Tankless Water Heaters

- They use higher output burners to supply "instant" hot water to homeowners. These units save space, never run out of water yet exhibit no possibility of flooding due to a ruptured tank, and will last twice as long as a conventional unit.
- They qualify for utility and energy-efficiency program rebates, and a federal tax credit.
- Tankless water heaters will last up to 20 years, and are best for new construction given extra costs necessary for installation, e.g. new electrical outlets and ventilation system, upgraded gas pipes.



ENERGY STAR. The simple choice for energy efficiency.



2016 National Water Heater Promotion



Top Five Reasons ENERGY STAR Cares About Water Heaters

- 1. Low market share of ENERGY STAR certified water heaters that can save customers hundreds over their lifetime
- 2. 37% of national installed water heater stock have been in operation for 10 years or greater
- 3. Opportunity to change decision making through education and awareness on benefits of early replacement
- 4. Widespread availability of significant energy efficiency program sponsor incentives and federal tax credits
- Existing market momentum from 2015 national ENERGY STAR Water Heater promotion

Switching to a certified unit is a huge savings opportunity!



ENERGY STAR National Water Heater Promotion

- Outreach effort to encourage consumers to think about replacing their old water heater before it fails. Consumers can achieve big savings by switching to ENERGY STAR and there are big rebates available, which might not be around forever.
 - Increase awareness of the value of ENERGY STAR water heaters
 - Encourage planned replacement of old water heaters
 - Increase overall demand and sales of ENERGY STAR certified water heaters
- Call to Action: Replace your old water heater with a certified model





ENERGY STAR Marketing & Outreach Campaign

- Paid & Earned Media:
 - Regional online banner advertising campaign
 - Regional PR activity in support of campaign
- Owned Media:
 - Dedicated campaign website <u>energystar.gov/waterheaters</u>
 - Ask the expert video
 - Mention in upcoming ENERGY STAR Consumer newsletter
 - Campaign messaging integration into Facebook and Twitter channels
- Shared:
 - Developed digital tool kit to help partners co-market promotion – <u>energystar.gov/products/marketing_mat</u> <u>erials</u>

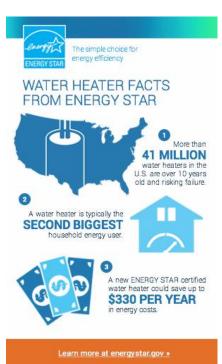


energy ENERGY STAR

In-Store/Online Partner Materials

- Graphic and tagline for promotion
- Shareable graphics with key messaging
- Template signage for utilities
- Checklist or quiz
- <u>www.energystar.gov/products/marketing_materials</u>







Save up to \$3,500 on an ENERGY STAR® certified water heater.

Good for You. Good for the Planet.

energystar.gov/waterheaters





Your water heater can save you money

By Carolyn Dix Remer

Dispatch Media Group • Friday October 30, 2015 9:57 AM

When the temperature dips, it can be magical — the leaves turn vibrant shades of orange, red and yellow. Football is in full swing, and sparkling white snow blankets the ground.

Of course, there are also less-magical moments, like the high energy bills that result from cranking up the heat in the frigid Ohio winter.

Luckily, your water heater can help you save on your electric bill.

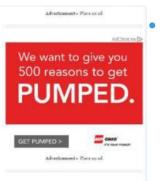
"If you just look at the water heater, after home heating and cooling, it's the highest consumer of energy in your home," said David Tabata, manager of consumer programs and marketing for AEP Ohio. In fact, your water heater accounts for 4.4 to 18 percent of your utility bills, with the average U.S. household spending \$400 to \$5000 a year on water heating.

Tabata noted that standard electric water heaters use more energy than the refrigerator, dishwasher, clothes washer and dryer combined.

Heat pump water heaters provide the same amount of hot water as traditional electric water heaters, but can save you up to 52 percent on your water heating costs.

Energy-efficient ENERGY STAR heat pump water heaters can save homeowners as much as $\$_{300}$ a year, which means these water heaters can pay for themselves within two years. AEP Ohio offers these additional suggestions to help save money on water heating costs:

• Wash your clothes in cold water.



Executing promotional marketing campaigns

- In-store advertising and special point of-purchase material placement
- Media outreach
- Digital and social education campaigns
- Incentives
- Increased contractor outreach and engagement efforts
 - Targeted contractor/plumber trainings
 - Inclusion of contractors/plumbers into program implementation











🔅 💄 Follow

We've partnered w/ @ENERGYSTAR to give you savings for replacing your aging water heater: bit.ly/2c8jeQL









Energy Upgrade CA @EnergyUpgradeCA

ň 2 Follow

Is your water heater 10 yrs old? @ENERGYSTAR experts have the facts on why it's time to upgrade:



RETWEETS

3

4



3:02 PM - 10 Sep 2016

1

....

13 3

LIKE

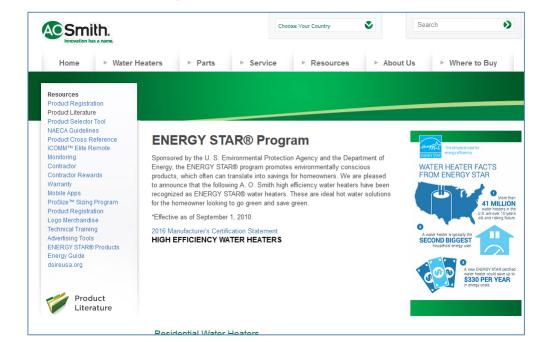
1



Manufacturer and Retail Partner Participation

- Manufacturers
 - Independent campaigns in partnership with utilities/energyefficiency programs and retailers
 - Using widgets on web site
- Retailers
 - Web education
 - Stocking product
 - Outreach to consumers







sears



Contractors & Plumbers Matter: ENERGY STAR Engagement Efforts

- Strengthening relationship and outreach effort with PHCC
 - Delivered PHCC member webinar regarding how to participate in the national promotion and collaborate with members partners
- Continuing to work utility and energy-efficiency programs to ensure they have the resources to engage their local plumber networks effectively
 - Organized and delivered Contractor Engagement webinar in partnership with New Jersey Natural Gas and CenterPoint Energy
- Worked with our retail and manufacturer partners to provide information to enhance training for their contractor and plumber networks







ENERGY STAR. The simple choice for energy efficiency.



Additional Water Heater Sales & Marketing Resources



Even more ways to save!

Visit <u>www.energystar.gov/rebatefinder</u>

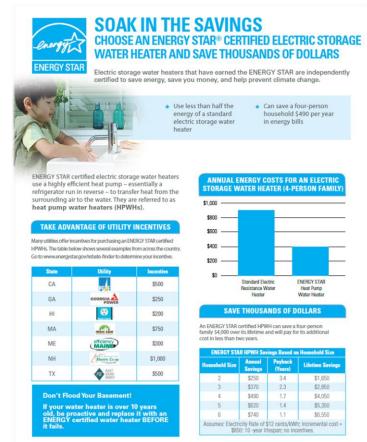
- Available rebates in your area,
- Incentive amounts, start and end dates,
- Name, location, and contact information of rebate sponsors.

				STAR PARTNER	RESOURCES		Q
a want	The simple choice for e	nergy efficiency.					
ENERGY STAR	ENERGY EFFICIENT products	ENERGY SAVINGS at home	ENERGY EFFICIENT		RGY STRATEGIE	es for S & plants	
ome » Certified Produ	cts -> Rebate Finder -> Speci	al Offers and Rebates from			nergy effici	ient product inf	ormation
All Certified Products	How a Product Earn	s the Label Save	e Energy at Home	Join Our Mover	ment F	Product Specification	is Search
Find Prod	uct Rebates	s & Other 9	Special Of	fers			
ind i roo	uctricbutes	s a other s	opecial of	1015			
	Entervour	zip code in the bo		1 En	ter your zip o	ode to see a list of ers in your area.	
	below to fir	d rebates and ot	ates and other		rrow the resu	ults to the product terest to you.	
S S S S S S S S S S S S S S S S S S S	special offers available in area.			२ Co	nnect to utilit	ty websites for	
•				- de	tails on how t	to cash in.	
Enter yo	ur zip code	to begin.	All Zip Codes		FIND REE	BATES	
	ur zip code onal Resc			RGY ST		BATES	
Additi LEARN ABOU Looking for bow to save products?	Onal Reso MORE PRODUCTS more information about with ENERGY STAR			IR agy	ĀR	IERGY ST/ aanyo sankoo tuka tu	
Additi LEARN ABOU Looking for bow to save products?	Onal Reso MORE PRODUCTS more information about with ENERGY STAR	PROE	DUCT FINDE DUCT FINDE nd and compare ENEF AR products to see h ack up. START HERE	IR agy	TAR My EN Discover the m simple energy: actions you	IERGY ST/ aanyo sankoo tuka tu	TED TED TED TED



Water Heater marketing tools

- All Fuels
 - Retail Sales Training
 - Contractor Training
 - Marketing Messaging copy
 - Social Media content
- Electric Storage
 - HPWH Fact Sheet
- Gas Storage and Tankless
 - Fact Sheet



Visit www.energystar.gov/products for more information.

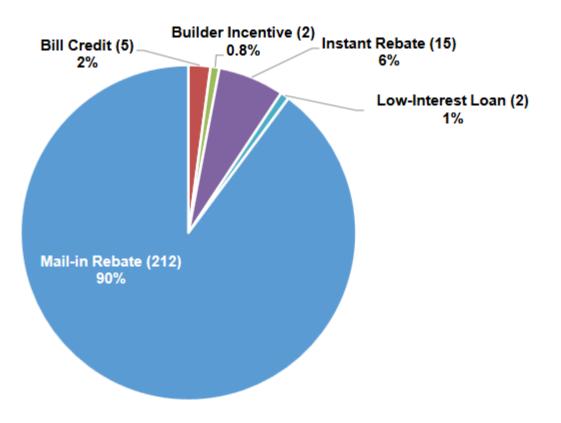


Water Heater Program Summary

- <u>www.energystar.gov/dime</u>
- Helpful resource to determine regional synergies and opportunities for collaboration
- Select Findings:
 - 90% of programs use mail-in rebates
 - HPWHs account for 50% of promotional activity
 - 236 incentives available for certified WHs

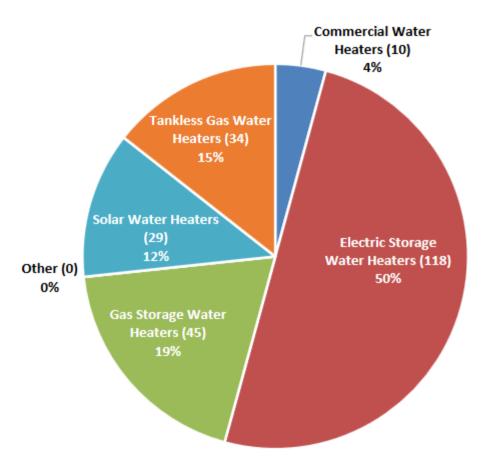


Program Breakdown by Incentive Type



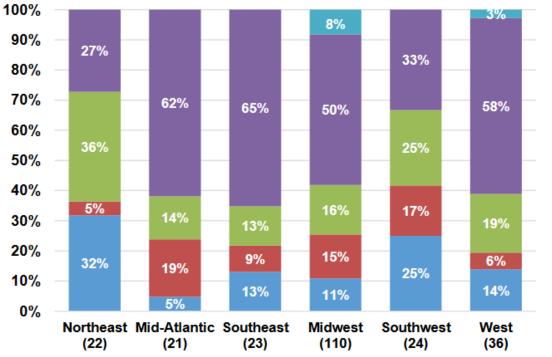


Program Breakdown by Water Heater Type





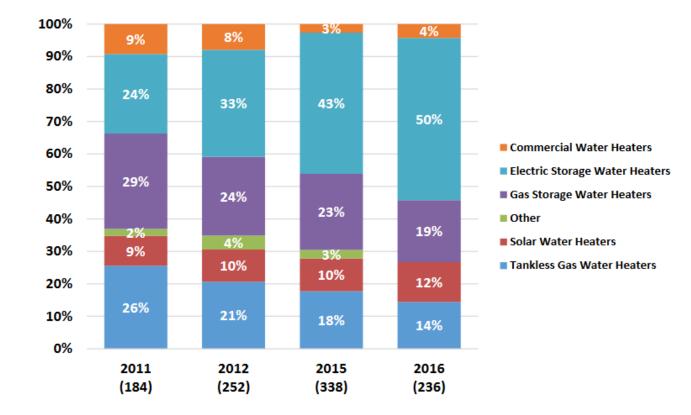
Program Breakdown by Water Heater Type and Region



Commercial Water Heaters
Electric Storage Water Heaters
Gas Storage Water Heaters
Solar Water Heaters
Tankless Gas Water Heaters

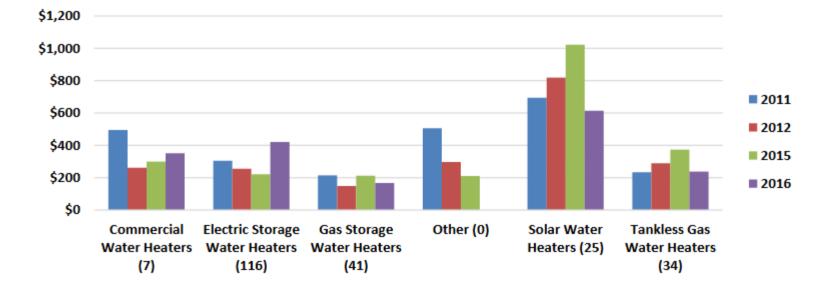


Program Breakdown by Water Heater Type and Year





Average Incentive Breakdown by Water Heater Type and Year



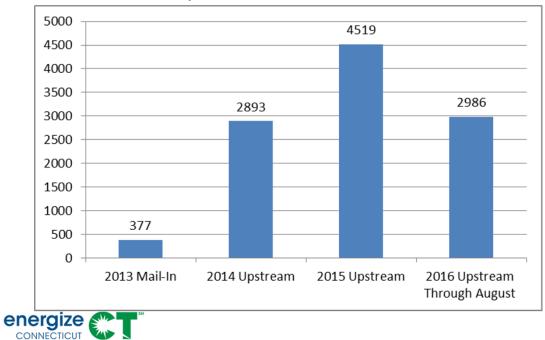
ENERGY STAR. The simple choice for energy efficiency.



New Initiative in 2017 Distributor Incentives for Water Heaters



Energize CT Increases Incentives Processed by 10x

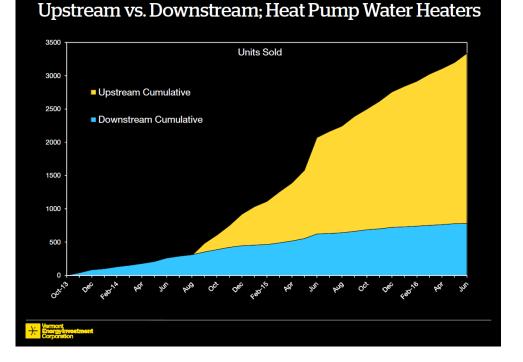


ENERGY STAR Heat Pump and Natural Gas Water Heater Incentives Processed

- Provide incentive to distributor who then passes on savings to contractor
- Data presented by Energize CT at 2016 ESPPM.
- 10x increase in sales compared to 2013
- Includes some commercial gas water heaters as well.



VEIC Increased HPWH Units Sold by 7.5 times



- Data presented by VEIC at 2016 ACEEE Summer Study.
- 7.5 times increase in sales in 2015 for HPWHs.
- VEIC, on behalf of ENERGY STAR, has been promoting midstream distributor

concept across country

 Please see their presentation later in the day to learn more about why distributor incentives are so effective



Thank you!

Steve Ryan U.S. EPA, ENERGY STAR 202-343-9123 ryan.steven@epa.gov