

## **APPENDIX 15-A. REGULATORY IMPACT ANALYSIS: SUPPORTING MATERIALS**

### **TABLE OF CONTENTS**

15-A.1	INTRODUCTION .....	15-A-1
15-A.2	MARKET SHARE ANNUAL INCREASES FOR REBATE, TAX CREDIT, VOLUNTARY EFFICIENCY TARGETS, AND BULK GOVERNMENT PURCHASES POLICIES .....	15-A-1
15-A.3	BACKGROUND ON XENERGY PENETRATION CURVES .....	15-A-5
15-A.3.1	Introduction.....	15-A-5
15-A.3.2	Adjustment of Xenergy Curves .....	15-A-6
15-A.4	UTILITY REBATE PROGRAMS .....	15-A-7
15-A.4.1	Rebate Programs for Gas-Fired Water Heaters .....	15-A-7
15-A.4.2	Rebate Programs for Electric Water Heaters .....	15-A-13
15-A.4.3	Rebates for Gas Space Heaters .....	15-A-24
15-A.4.4	Rebates for Hearth Products .....	15-A-25
15-A.4.5	Rebates for Gas-Fired Pool Heaters.....	15-A-26
15-A.5	FEDERAL AND STATE TAX CREDITS .....	15-A-27
15-A.5.1	Federal Tax Credits for Residential Appliances .....	15-A-27
15-A.5.2	Federal Tax Credits for Manufacturers.....	15-A-28
15-A.5.3	State Tax Credits.....	15-A-29

### **LIST OF TABLES**

Table 15-A.2.1	Annual Increases in Market Shares Attributable to Rebate and Tax Credit Policies for Water Heaters .....	15-A-2
Table 15-A.2.2	Annual Increases in Market Shares Attributable to a Voluntary Energy Efficiency Targets Policy for Heating Products .....	15-A-3
Table 15-A.2.3	Annual Increases in Market Shares Attributable to Bulk Government Purchases for Gas-Fired and Electric Storage Water Heaters .....	15-A-4
Table 15-A.4.1	Rebates for Gas-Fired Water Heaters .....	15-A-8
Table 15-A.4.2	Rebates for Electric Water Heaters .....	15-A-13
Table 15-A.4.3	Rebates for Gas Space Heaters .....	15-A-25
Table 15-A.4.4	Rebates for Hearth Products .....	15-A-26
Table 15-A.4.5	Rebates for Gas-Fired Pool Heaters.....	15-A-26
Table 15-A.5.1	Federal Tax Credits for Residential Central Air Conditioners and Heat Pumps.....	15-A-28

### **LIST OF FIGURES**

Figure 15-A.3.1	S-Curves Showing Effects of External and Internal Sources on Adoption of New Technologies .....	15-A-6
-----------------	---	--------

## **APPENDIX 15-A. REGULATORY IMPACT ANALYSIS: SUPPORTING MATERIALS**

### **15-A.1 INTRODUCTION**

This appendix contains sections discussing the following topics:

- Projections of annual market share increases for the consumer rebates, consumer tax credits, manufacturer tax credits, voluntary energy efficiency targets and bulk government purchases policies
- Background material on the Xenergy penetration curves used to analyze consumer rebates and DOE's adjustment of these curves for this analysis
- Detailed tables of rebates offered for the five considered products
- Background material on Federal and state tax credits for appliances

### **15-A.2 MARKET SHARE ANNUAL INCREASES FOR REBATE, TAX CREDIT, VOLUNTARY EFFICIENCY TARGETS, AND BULK GOVERNMENT PURCHASES POLICIES**

For the consumer rebate, consumer tax credit, and manufacturer tax credit policies, Table 15-A.2.1 shows the annual increases in market shares for gas-fired and electric storage water heaters meeting target efficiency levels. For water heaters, these market shares are the weighted averages of the projected 2015 shipment market shares by volume type. For gas-fired storage water heaters, the market share of small rated volume units is 96 percent and the share of large rated volume is 4 percent. For electric storage water heaters, the market share of small rated volume units is 91 percent and the share of large rated volume is 9 percent.

For these policies, the market shares under the policy case for direct heating equipment and pool heaters are assumed to be constant from the start year to the end year of the analysis (as reported in chapter 15 of the TSD).

DOE used these market share increases as inputs to the RIA spreadsheet model.

**Table 15-A.2.1 Annual Increases in Market Shares Attributable to Rebate and Tax Credit Policies for Water Heaters**

Year of Program	Consumer Rebates		Consumer Tax Credits		Manufacturer Tax Credits	
	Gas-Fired Storage	Electric Storage	Gas-Fired Storage	Electric Storage	Gas-Fired Storage	Electric Storage
2015	27.3%	36.9%	16.4%	22.2%	8.2%	11.1%
2016	27.1%	36.5%	16.3%	21.9%	8.1%	10.9%
2017	27.0%	36.0%	16.2%	21.6%	8.1%	10.8%
2018	26.8%	35.5%	16.1%	21.3%	8.1%	10.7%
2019	26.7%	35.1%	16.0%	21.1%	8.0%	10.5%
2020	26.5%	34.6%	15.9%	20.8%	8.0%	10.4%
2021	26.4%	34.2%	15.8%	20.5%	7.9%	10.2%
2022	26.2%	33.7%	15.7%	20.2%	7.9%	10.1%
2023	26.1%	33.2%	15.7%	19.9%	7.8%	10.0%
2024	25.9%	32.8%	15.6%	19.7%	7.8%	9.8%
2025	25.8%	32.3%	15.5%	19.4%	7.7%	9.7%
2026	25.6%	31.9%	15.4%	19.1%	7.7%	9.6%
2027	25.5%	31.4%	15.3%	18.8%	7.6%	9.4%
2028	25.3%	30.9%	15.2%	18.6%	7.6%	9.3%
2029	25.2%	30.5%	15.1%	18.3%	7.6%	9.1%
2030	25.0%	30.0%	15.0%	18.0%	7.5%	9.0%
2031	24.9%	29.6%	14.9%	17.7%	7.5%	8.9%
2032	24.7%	29.1%	14.8%	17.5%	7.4%	8.7%
2033	24.6%	28.6%	14.8%	17.2%	7.4%	8.6%
2034	24.4%	28.2%	14.7%	16.9%	7.3%	8.5%
2035	24.3%	27.7%	14.6%	16.6%	7.3%	8.3%
2036	24.1%	27.2%	14.5%	16.3%	7.2%	8.2%
2037	24.0%	26.8%	14.4%	16.1%	7.2%	8.0%
2038	23.8%	26.3%	14.3%	15.8%	7.2%	7.9%
2039	23.7%	25.9%	14.2%	15.5%	7.1%	7.8%
2040	23.5%	25.4%	14.1%	15.2%	7.1%	7.6%
2041	23.4%	24.9%	14.0%	15.0%	7.0%	7.5%
2042	23.2%	24.5%	13.9%	14.7%	7.0%	7.3%
2043	23.1%	24.0%	13.9%	14.4%	6.9%	7.2%
2044	22.9%	23.6%	13.8%	14.1%	6.9%	7.1%

Table 15-A.2.2 shows the annual increases in market shares for the five considered heating products that meet target efficiency levels for the voluntary energy efficiency targets policy.

**Table 15-A.2.2 Annual Increases in Market Shares Attributable to a Voluntary Energy Efficiency Targets Policy for Heating Products**

<b>Year</b>	<b>Gas-Fired Storage Water Heaters</b>	<b>Electric Storage Water Heaters</b>	<b>Year</b>	<b>Gas Wall Fan DHE</b>	<b>Gas Hearth DHE</b>	<b>Pool Heaters</b>
2015	13.7%	0.3%	2013	2.1%	2.4%	2.0%
2016	13.5%	3.0%	2014	3.2%	3.7%	3.1%
2017	13.6%	5.4%	2015	4.3%	4.9%	4.2%
2018	14.0%	6.2%	2016	5.4%	6.1%	5.2%
2019	14.1%	7.9%	2017	5.3%	6.1%	5.2%
2020	14.2%	8.7%	2018	5.3%	6.1%	5.1%
2021	14.2%	9.2%	2019	5.8%	6.7%	5.6%
2022	14.3%	9.4%	2020	6.4%	7.3%	6.1%
2023	14.4%	9.7%	2021	7.0%	8.0%	6.7%
2024	14.5%	10.3%	2022	7.6%	8.7%	7.4%
2025	14.6%	10.6%	2023	8.3%	9.6%	8.1%
2026	14.7%	11.0%	2024	9.1%	10.5%	8.8%
2027	14.8%	11.3%	2025	10.0%	11.4%	9.7%
2028	14.8%	11.7%	2026	10.9%	12.5%	10.6%
2029	14.9%	12.1%	2027	12.0%	13.7%	11.6%
2030	15.0%	12.4%	2028	13.1%	15.0%	12.7%
2031	15.1%	12.8%	2029	13.1%	15.1%	12.7%
2032	15.2%	13.2%	2030	13.2%	15.2%	12.8%
2033	15.3%	13.5%	2031	13.3%	15.2%	12.8%
2034	15.3%	13.9%	2032	13.3%	15.3%	12.9%
2035	15.4%	14.3%	2033	13.4%	15.4%	13.0%
2036	15.5%	14.7%	2034	13.5%	15.5%	13.0%
2037	15.6%	15.0%	2035	13.5%	15.5%	13.1%
2038	15.7%	15.4%	2036	13.6%	15.6%	13.2%
2039	15.7%	15.8%	2037	13.7%	15.7%	13.2%
2040	15.8%	16.2%	2038	13.7%	15.8%	13.3%
2041	15.9%	16.6%	2039	13.8%	15.8%	13.4%
2042	15.9%	17.0%	2040	13.9%	15.9%	13.4%
2043	16.0%	17.3%	2041	14.0%	16.0%	13.5%
2044	16.1%	17.7%	2042	14.0%	16.1%	13.6%

Table 15-A.2.3 shows the annual increases in market shares for gas-fired and electric storage water heaters that meet target efficiency levels for the bulk government purchases policy. DOE did not consider this policy for direct heating equipment because of the low saturation of these products in federal housing and the resulting minimal energy savings. DOE did not analyze this policy nor for the pool heaters policy because these products are not present in federal housing.

**Table 15-A.2.3 Annual Increases in Market Shares Attributable to Bulk Government Purchases for Gas-Fired and Electric Storage Water Heaters**

<b>Year of Program</b>	<b>Gas-Fired Storage Water Heaters</b>	<b>Electric Storage Water Heaters</b>
2015	0.0%	0.0%
2016	0.1%	0.0%
2017	0.1%	0.1%
2018	0.2%	0.1%
2019	0.2%	0.1%
2020	0.3%	0.1%
2021	0.3%	0.1%
2022	0.3%	0.2%
2023	0.4%	0.2%
2024	0.4%	0.2%
2025	0.4%	0.2%
2026	0.4%	0.2%
2027	0.4%	0.2%
2028	0.4%	0.2%
2029	0.4%	0.2%
2030	0.4%	0.2%
2031	0.4%	0.2%
2032	0.4%	0.2%
2033	0.4%	0.2%
2034	0.4%	0.2%
2035	0.4%	0.2%
2036	0.4%	0.2%
2037	0.4%	0.2%
2038	0.4%	0.2%
2039	0.4%	0.2%
2040	0.4%	0.2%
2041	0.4%	0.2%
2042	0.4%	0.2%
2043	0.4%	0.2%
2044	0.4%	0.2%

## 15-A.3 BACKGROUND ON XENERGY PENETRATION CURVES

### 15-A.3.1 Introduction

XENERGY, Inc., developed a re-parameterized, mixed-source information diffusion model to estimate market impacts induced by financial incentives for purchasing energy efficient appliances.<sup>a</sup> The basic premise of the mixed-source model is that information diffusion drives the adoption of technology.

Extensive economic literature describes the diffusion of new products as technologies evolve. Some research focuses primarily on developing analytical models of diffusion patterns applicable to individual consumers or to technologies from competing firms.<sup>1, 2, 3</sup> One study records researchers' attempts to investigate the factors that drive diffusion processes.<sup>4</sup> Because a new product generally has its own distinct characteristics, few studies have been able conclusively to develop a universally applicable model. Some key findings, however, generally are accepted in academia and industry.

One accepted finding is that, regardless of their economic benefits and technological merits, new technologies are unlikely to be adopted by all potential users. For many products, a ceiling must be placed on the adoption rate. A second conclusion is that not all adopters purchase new products at the same time: some act quickly after a new product is introduced; others wait for the product to mature. Third, diffusion processes can be characterized approximately by asymmetric S-curves that depict three stages of diffusion: starting, accelerating, and decreasing (as the adoption ceiling is approached).

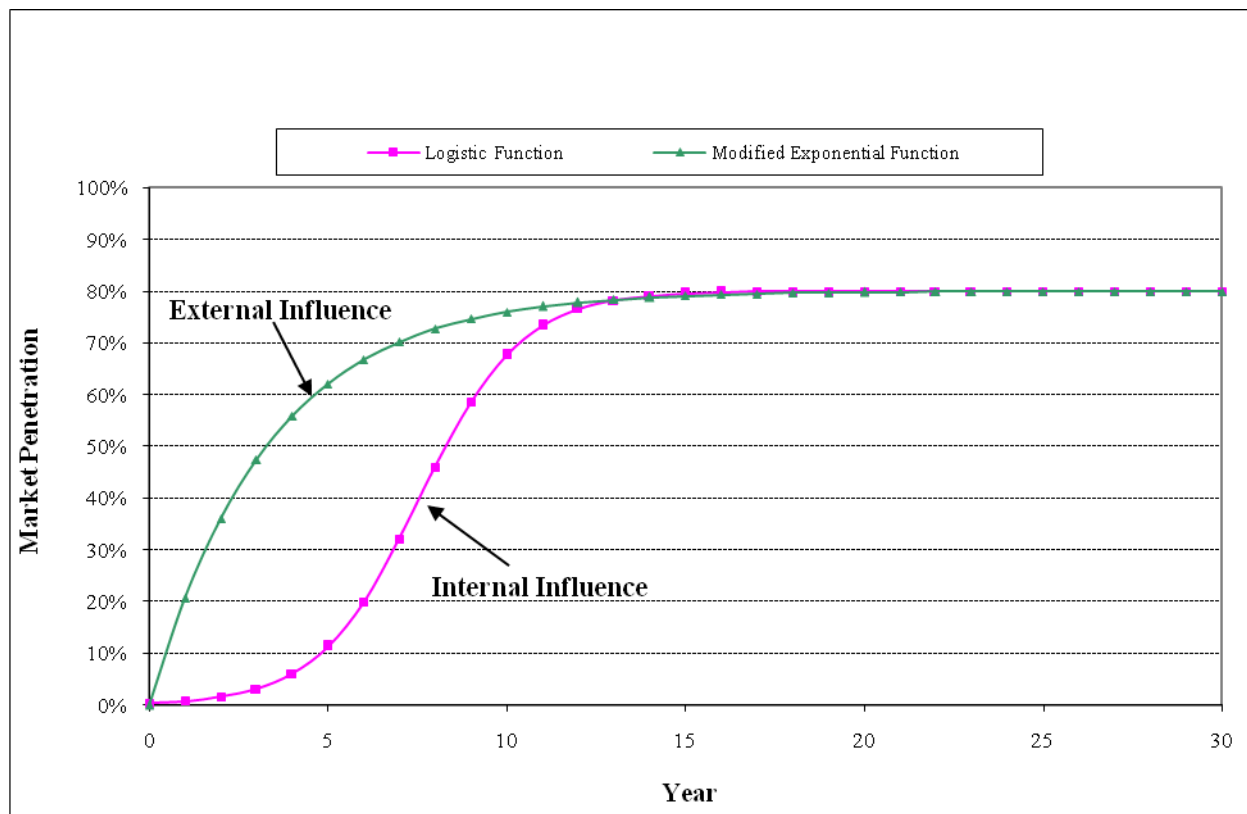
A so-called epidemic model of diffusion is used widely in marketing and social studies. The epidemic model assumes that (1) all consumers place identical value on the benefits of a new product, and (2) the cost of a new product is constant or declines monotonically over time. What induces a consumer to purchase a new product is information about the availability and benefits of the product. In other words, information diffusion drives consumers' adoption of a new product.<sup>2</sup> The model incorporates information diffusion from both internal sources (spread by word of mouth from early adopters to prospective adopters) and external sources (the "announcement effect" produced by government agencies, institutions, or commercial advertising). The model incorporates both internal and external sources by combining a logistic function with an exponential function.<sup>5, 6</sup>

The relative degree of influence from the internal and external sources determines the general shape of the diffusion curve for a specific product.<sup>5, 6</sup> If adoption of a product is influenced primarily by external sources of information (the announcement effect), for instance, a high rate of diffusion occurs at the beginning of the process. In this scenario, external sources provide immediate information exposure to a significant number of prospective adopters. In contrast, internal sources (such as a network of prospective adopters) are relatively small in size

---

<sup>a</sup> XENERGY is now owned by KEMA, Inc. ([www.kema.com](http://www.kema.com))

and reach, producing a more gradual exposure to prospective adopters. Graphically speaking, information diffusion dominated by external sources is represented by a concave curve (the exponential curve in Figure 15-A.3.1). If adoption of a new product is influenced most strongly by internal sources of information, the number of adopters increases gradually, forming a convex curve (the logistic curve in Figure 15-A.3.1).



**Figure 15-A.3.1 S-Curves Showing Effects of External and Internal Sources on Adoption of New Technologies**

### 15-A.3.2 Adjustment of Xenergy Curves

After consulting with a primary author of the 2002 XENERGY study who later conducted similar California studies, DOE made some adjustments to XENERGY's original penetration curves.<sup>5</sup> The experiences of utility programs since the 2002 XENERGY study indicate that incentive programs have difficulty achieving penetration rates higher than 50 percent. Rates are limited by barriers created by consumer utility issues and other non-economic factors. DOE therefore adjusted the maximum penetration parameters from 80 percent to 50 percent for the XENERGY curves that represent *moderate barriers*, *high barriers*, and *extremely high barriers*. DOE also refrained from using what now is considered a theoretical curve that represents *no barriers*. Instead, DOE used a low barriers curve to analyze a product that faces few market barriers and/or has a high base-case-market share.

## **15-A.4 UTILITY REBATE PROGRAMS**

The following four tables summarize the values of rebates offered by programs nationwide for residential gas-fired and electric water heaters, gas space heaters, and gas pool heaters.

### **15-A.4.1 Rebate Programs for Gas-Fired Water Heaters**

DOE found 47 organizations, comprising electric utilities, gas utilities, and municipal and regional agencies, that have rebate programs for gas water heaters. The organizations offer more than 100 rebates for models that meet various efficiency criteria. Table 15-A.4.1 provides the organizations' names, states, efficiency levels, rebate amounts, and program websites. If there is more than one entry for an organization, that organization offers different rebate amounts depending on water heater capacity. The average rebate amount for water heaters having an energy factor (EF) of 0.62 and of 0.80, given in 2009\$ at the end of the table, are simple averages of the individual amounts (rather than being population-weighted).



**Table 15-A.4.1 Rebates for Gas-Fired Water Heaters**

Utility or Agency	State	Amount 2009\$	EF	Website
Cedarburg Light and Water Utility	WI	250	0.59	<a href="http://www.focusonenergy.com/Incentives/Residential/Cash-Back_Rewards/waterheater.aspx">http://www.focusonenergy.com/Incentives/Residential/Cash-Back_Rewards/waterheater.aspx</a>
Focus on Energy	WI	250	0.59	<a href="http://www.focusonenergy.com/Incentives/Residential/Cash-Back_Rewards/waterheater.aspx">http://www.focusonenergy.com/Incentives/Residential/Cash-Back_Rewards/waterheater.aspx</a>
Avista Utilities	ID	50	0.6	<a href="https://www.avistautilities.com/savings/rebates/Pages/WashingtonandIdahoCustomerRebates.aspx#high">https://www.avistautilities.com/savings/rebates/Pages/WashingtonandIdahoCustomerRebates.aspx#high</a>
Avista Utilities	OR	50	0.6	<a href="https://www.avistautilities.com/savings/rebates/Documents/EquipmentRebate04_09.pdf">https://www.avistautilities.com/savings/rebates/Documents/EquipmentRebate04_09.pdf</a>
Avista Utilities	WA	50	0.6	<a href="https://www.avistautilities.com/savings/rebates/Pages/WashingtonandIdahoCustomerRebates.aspx#high">https://www.avistautilities.com/savings/rebates/Pages/WashingtonandIdahoCustomerRebates.aspx#high</a>
City of Palo Alto Utilities	CA	40	0.62	<a href="http://www.cpau.com/civica/filebank/blobdload.asp?BlobID=4365">http://www.cpau.com/civica/filebank/blobdload.asp?BlobID=4365</a>
City of Lompoc Utilities	CA	100	0.62	<a href="http://www.cityoflompoc.com/utilities/conservation/">http://www.cityoflompoc.com/utilities/conservation/</a>
PG&E	CA	30	0.62	<a href="http://www.pge.com/includes/docs/pdfs/shared/saveenergymoney/rebates/08_residential_appliance.pdf">http://www.pge.com/includes/docs/pdfs/shared/saveenergymoney/rebates/08_residential_appliance.pdf</a>
San Diego Gas and Electric	CA	30	0.62	<a href="http://www.sdge.com/residential/waterHeaters.shtml">http://www.sdge.com/residential/waterHeaters.shtml</a>
Southern California Gas Company	CA	30	0.62	<a href="http://www.socalgas.com/rebates/residential/waterheater/">http://www.socalgas.com/rebates/residential/waterheater/</a>
Atmos Energy	CO	50	0.62	<a href="http://www.conservarebates.com/programs/col/_documents/Colorado%20Equipment%20Application20090225.pdf">http://www.conservarebates.com/programs/col/_documents/Colorado%20Equipment%20Application20090225.pdf</a>
Colorado Natural Gas	CO	50	0.62	<a href="http://www.conservarebates.com/programs/col/_documents/Colorado%20Equipment%20Application20090225.pdf">http://www.conservarebates.com/programs/col/_documents/Colorado%20Equipment%20Application20090225.pdf</a>
SourceGas	CO	50	0.62	<a href="http://www.conservarebates.com/programs/col/_documents/Colorado%20Equipment%20Application20090225.pdf">http://www.conservarebates.com/programs/col/_documents/Colorado%20Equipment%20Application20090225.pdf</a>
Xcel Energy	CO	40	0.62	<a href="http://www.xcelenergy.com/Residential/Programs_Resources/HeatingandCoolingRebates/Pages/WaterHeaterRebates.aspx">http://www.xcelenergy.com/Residential/Programs_Resources/HeatingandCoolingRebates/Pages/WaterHeaterRebates.aspx</a>
Avista Utilities	ID	50	0.62	<a href="https://www.avistautilities.com/savings/rebates/Pages/WashingtonandIdahoCustomerRebates.aspx#high">https://www.avistautilities.com/savings/rebates/Pages/WashingtonandIdahoCustomerRebates.aspx#high</a>
MidAmerican Energy Company - Illinois	IL	50	0.62	<a href="http://www.midamericanenergy.com/pdf/il_res_equip.pdf">http://www.midamericanenergy.com/pdf/il_res_equip.pdf</a>
Citizens Gas of Indiana	IN	100	0.62	<a href="http://www.citizensgas.com/forhomes/appliancerebates.html">http://www.citizensgas.com/forhomes/appliancerebates.html</a>
Northern Indiana Public Service Corporation	IN	100	0.62	<a href="http://www.nipsco.com/energyprograms/">http://www.nipsco.com/energyprograms/</a>
Vectren Energy Delivery	IN	100	0.62	<a href="https://www.vectrenenergy.com/selectState.do;jsessionid=q0qSJ3yTL2TWbbTGglLrbvvZghFHPT1NTvm2H4RDYF2W3gRkjpWx!1146985967">https://www.vectrenenergy.com/selectState.do;jsessionid=q0qSJ3yTL2TWbbTGglLrbvvZghFHPT1NTvm2H4RDYF2W3gRkjpWx!1146985967</a>
Black Hills Energy	IA	75	0.62	<a href="http://www.blackhillsenergy.com/services/programs/homes-heateff-ia.php#appliance">http://www.blackhillsenergy.com/services/programs/homes-heateff-ia.php#appliance</a>

Utility or Agency	State	Amount 2009\$	EF	Website
Interstate Power and Light (Alliant Energy)	IA	75	0.62	<a href="http://alliantenergy.com/UtilityServices/ForYourHome/RewardsIncentives/IowaIncentivePrograms/014675">http://alliantenergy.com/UtilityServices/ForYourHome/RewardsIncentives/IowaIncentivePrograms/014675</a>
MidAmerican Energy Residential Equipment Rebate Program	IA	50	0.62	<a href="http://www.midamericanenergy.com/pdf/ee_resident_rebates.pdf">http://www.midamericanenergy.com/pdf/ee_resident_rebates.pdf</a>
Berkshire Gas	MA	50	0.62	<a href="http://www.berkshiregas.com/UsageAndSafety/energyefficprog.html">http://www.berkshiregas.com/UsageAndSafety/energyefficprog.html</a>
Wakefield Municipal Gas and Light Department	MA	100	0.62	<a href="http://www.wakefield.ma.us/Public_Documents/WakefieldMA_MGLD/rcsprogram.htm">http://www.wakefield.ma.us/Public_Documents/WakefieldMA_MGLD/rcsprogram.htm</a>
Hutchinson Utilities Commission	MN	50	0.62	<a href="http://www.hutchinsonutilities.com/rebateresident.html">http://www.hutchinsonutilities.com/rebateresident.html</a>
Interstate Power and Light (Alliant Energy)	MN	25	0.62	<a href="http://www.alliantenergy.com/UtilityServices/ForYourHome/RewardsIncentives/MinnesotaIncentivePrograms/014684">http://www.alliantenergy.com/UtilityServices/ForYourHome/RewardsIncentives/MinnesotaIncentivePrograms/014684</a>
Xcel Energy	MN	40	0.62	<a href="http://www.xcelenergy.com/Residential/Programs_Resources/HeatingandCoolingRebates/Pages/HeatingandCoolingRebates.aspx">http://www.xcelenergy.com/Residential/Programs_Resources/HeatingandCoolingRebates/Pages/HeatingandCoolingRebates.aspx</a>
Missouri Gas Energy	MO	40	0.62	<a href="http://www.betterwaterheating.com/rebatequal.html">http://www.betterwaterheating.com/rebatequal.html</a>
NorthWestern Energy	MT	100	0.62	<a href="http://www.northwesternenergy.com/documents/E+Programs/E+NaturalGasRebate-Equipment.pdf">http://www.northwesternenergy.com/documents/E+Programs/E+NaturalGasRebate-Equipment.pdf</a>
New Jersey Board of Public Utilities	NJ	25	0.62	<a href="http://www.njcleanenergy.com/residential/programs/warmadvantage/warmadvantage">http://www.njcleanenergy.com/residential/programs/warmadvantage/warmadvantage</a>
Avista Utilities	OR	50	0.62	<a href="https://www.avistautilities.com/savings/rebates/Documents/EquipmentRebate04_09.pdf">https://www.avistautilities.com/savings/rebates/Documents/EquipmentRebate04_09.pdf</a>
Energy Trust of Oregon	OR	35	0.62	<a href="http://www.energytrust.org/residential/existinghomes/waterheater.html">http://www.energytrust.org/residential/existinghomes/waterheater.html</a>
PECO Natural Gas Energy Efficiency Rebates	PA	50	0.62	<a href="http://www.exeloncorp.com/ourcompanies/peco/pecores/natural_gas/energy_efficiency_rebate_prog/default.htm">http://www.exeloncorp.com/ourcompanies/peco/pecores/natural_gas/energy_efficiency_rebate_prog/default.htm</a>
Texas Gas Service	TX	40	0.62	<a href="http://www.oneok.com/tgs/about/conservation/tgs_residential.jsp">http://www.oneok.com/tgs/about/conservation/tgs_residential.jsp</a>
Questar Gas	UT	50	0.62	<a href="http://www.thermwise.com/home/ApplianceRebates.html">http://www.thermwise.com/home/ApplianceRebates.html</a>
HomeBase Programs	VT	100	0.62	<a href="http://www.vermontgas.com/efficiency_programs/qa_rebates.html">http://www.vermontgas.com/efficiency_programs/qa_rebates.html</a>
Avista Utilities	WA	50	0.62	<a href="https://www.avistautilities.com/savings/rebates/Pages/WashingtonandIdahoCustomerRebates.aspx#high">https://www.avistautilities.com/savings/rebates/Pages/WashingtonandIdahoCustomerRebates.aspx#high</a>
Cascade Natural Gas	WA	25	0.62	<a href="http://www.cngc.com/conservation/WA_Program_Incentives_Existing_Homes_0209.pdf">http://www.cngc.com/conservation/WA_Program_Incentives_Existing_Homes_0209.pdf</a>
Puget Sound Energy	WA	50	0.62	<a href="http://www.pse.com/solutions/foryourhome/Pages/rebatesOnWaterHeating.aspx">http://www.pse.com/solutions/foryourhome/Pages/rebatesOnWaterHeating.aspx</a>
North Shore Gas (offered by Chicagoland Natural Gas Savings Program)	IL	75	0.62	<a href="http://www.conservationrebates.com/programs/chi/CHI_Index.aspx">http://www.conservationrebates.com/programs/chi/CHI_Index.aspx</a>
Peoples Gas (offered by Chicagoland Natural Gas Savings Program)	IL	75	0.62	<a href="http://www.conservationrebates.com/programs/chi/CHI_Index.aspx">http://www.conservationrebates.com/programs/chi/CHI_Index.aspx</a>

Utility or Agency	State	Amount 2009\$	EF	Website
Piedmont Natural Gas	NC	50	0.62	<a href="http://www.piedmontng.com/eprise/main/piedmontng/residential/aboutNaturalGasSection/efficiencyPrograms1a">http://www.piedmontng.com/eprise/main/piedmontng/residential/aboutNaturalGasSection/efficiencyPrograms1a</a>
Delaware Energy Office	DE	20% of cost	0.63	<a href="http://www.delaware-energy.com/home-performance-rebate-details.htm">http://www.delaware-energy.com/home-performance-rebate-details.htm</a>
Austin Utilities	MN	75	0.63	<a href="http://www.austinutilities.com/pages/residential_conserve_incentives.asp">http://www.austinutilities.com/pages/residential_conserve_incentives.asp</a>
Xcel Energy	CO	60	0.64	<a href="http://www.xcelenergy.com/Residential/Programs_Resources/HeatingandCoolingRebates/Pages/WaterHeaterRebates.aspx">http://www.xcelenergy.com/Residential/Programs_Resources/HeatingandCoolingRebates/Pages/WaterHeaterRebates.aspx</a>
MidAmerican Energy Company - Illinois	IL	50	0.64	<a href="http://www.midamericanenergy.com/pdf/il_res_equip.pdf">http://www.midamericanenergy.com/pdf/il_res_equip.pdf</a>
MidAmerican Energy Residential Equipment Rebate Program	IA	50	0.64	<a href="http://www.midamericanenergy.com/pdf/ee_resident_rebates.pdf">http://www.midamericanenergy.com/pdf/ee_resident_rebates.pdf</a>
Minnesota Energy Resources	MN	45	0.64	<a href="http://www.minnesotaenergyresources.com/home/rebates.aspx">http://www.minnesotaenergyresources.com/home/rebates.aspx</a>
Xcel Energy	MN	60	0.64	<a href="http://www.xcelenergy.com/Residential/Programs_Resources/HeatingandCoolingRebates/Pages/HeatingandCoolingRebates.aspx">http://www.xcelenergy.com/Residential/Programs_Resources/HeatingandCoolingRebates/Pages/HeatingandCoolingRebates.aspx</a>
Cedarburg Light and Water Utility	WI	50	0.64	<a href="http://www.focusonenergy.com/Incentives/Residential/Cash-Back_Rewards/waterheater.aspx">http://www.focusonenergy.com/Incentives/Residential/Cash-Back_Rewards/waterheater.aspx</a>
Xcel Energy	CO	80	0.65	<a href="http://www.xcelenergy.com/Residential/Programs_Resources/HeatingandCoolingRebates/Pages/WaterHeaterRebates.aspx">http://www.xcelenergy.com/Residential/Programs_Resources/HeatingandCoolingRebates/Pages/WaterHeaterRebates.aspx</a>
NorthWestern Energy	MT	100	0.80	<a href="http://www.northwesternenergy.com/documents/E+Programs/E+NaturalGasRebate-Equipment.pdf">http://www.northwesternenergy.com/documents/E+Programs/E+NaturalGasRebate-Equipment.pdf</a>
NorthWestern Energy	MT	80	0.80	<a href="http://www.northwesternenergy.com/documents/E+Programs/E+NaturalGasRebate-Equipment.pdf">http://www.northwesternenergy.com/documents/E+Programs/E+NaturalGasRebate-Equipment.pdf</a>
North Shore Gas (offered by Chicagoland Natural Gas Savings Program)	IL	400	0.80	<a href="http://www.conservationrebates.com/programs/chi/CHI_Index.aspx">http://www.conservationrebates.com/programs/chi/CHI_Index.aspx</a>
Peoples Gas (offered by Chicagoland Natural Gas Savings Program)	IL	400	0.80	<a href="http://www.conservationrebates.com/programs/chi/CHI_Index.aspx">http://www.conservationrebates.com/programs/chi/CHI_Index.aspx</a>
Black Hills Energy	IA	300	0.80	<a href="http://www.blackhillsenergy.com/services/programs/homes-heateff-ia.php#appliance">http://www.blackhillsenergy.com/services/programs/homes-heateff-ia.php#appliance</a>
Interstate Power and Light (Alliant Energy)	IA	300	0.80	<a href="http://alliantenergy.com/UtilityServices/ForYourHome/RewardsIncentives/IowaIncentivePrograms/014675">http://alliantenergy.com/UtilityServices/ForYourHome/RewardsIncentives/IowaIncentivePrograms/014675</a>
Interstate Power and Light (Alliant Energy)	IA	300	0.80	<a href="http://alliantenergy.com/UtilityServices/ForYourHome/RewardsIncentives/IowaIncentivePrograms/014675">http://alliantenergy.com/UtilityServices/ForYourHome/RewardsIncentives/IowaIncentivePrograms/014675</a>
Owatonna Public Utilities	MN	200	0.80	<a href="http://www.owatonnautilities.com/documents/ResidentialRebateAppl09_000.pdf">http://www.owatonnautilities.com/documents/ResidentialRebateAppl09_000.pdf</a>
Xcel Energy	MN	100	0.80	<a href="http://www.xcelenergy.com/Residential/Programs_Resources/HeatingandCoolingRebates/Pages/HeatingandCoolingRebates.aspx">http://www.xcelenergy.com/Residential/Programs_Resources/HeatingandCoolingRebates/Pages/HeatingandCoolingRebates.aspx</a>
Missouri Gas Energy	MO	200	0.80	<a href="http://www.betterwaterheating.com/rebatequal.html">http://www.betterwaterheating.com/rebatequal.html</a>

Utility or Agency	State	Amount 2009\$	EF	Website
Energy Trust of Oregon	OR	200	0.80	<a href="http://www.energytrust.org/residential/existinghomes/waterheater.html">http://www.energytrust.org/residential/existinghomes/waterheater.html</a>
HomeBase Programs	VT	100	0.80	<a href="http://www.vermontgas.com/efficiency_programs/qa_rebates.html">http://www.vermontgas.com/efficiency_programs/qa_rebates.html</a>
Cedarburg Light and Water Utility	WI	100	0.80	<a href="http://www.focusonenergy.com/Incentives/Residential/Cash-Back_Rewards/waterheater.aspx">http://www.focusonenergy.com/Incentives/Residential/Cash-Back_Rewards/waterheater.aspx</a>
Cedarburg Light and Water Utility	WI	100	0.80	<a href="http://www.focusonenergy.com/Incentives/Residential/Cash-Back_Rewards/waterheater.aspx">http://www.focusonenergy.com/Incentives/Residential/Cash-Back_Rewards/waterheater.aspx</a>
Focus on Energy	WI	100	0.80	<a href="http://www.focusonenergy.com/Incentives/Residential/Cash-Back_Rewards/waterheater.aspx">http://www.focusonenergy.com/Incentives/Residential/Cash-Back_Rewards/waterheater.aspx</a>
Focus on Energy	WI	100	0.80	<a href="http://www.focusonenergy.com/Incentives/Residential/Cash-Back_Rewards/waterheater.aspx">http://www.focusonenergy.com/Incentives/Residential/Cash-Back_Rewards/waterheater.aspx</a>
City of Palo Alto Utilities	CA	300	0.80	<a href="http://www.cpau.com/civica/filebank/blobdload.asp?BlobID=4365">http://www.cpau.com/civica/filebank/blobdload.asp?BlobID=4365</a>
Cascade Natural Gas	WA	200	0.81	<a href="http://www.cngc.com/conservation/WA_Program_Incentives_Existing_Homes_0209.pdf">http://www.cngc.com/conservation/WA_Program_Incentives_Existing_Homes_0209.pdf</a>
Xcel Energy	CO	100	0.82	<a href="http://www.xcelenergy.com/Residential/Programs_Resources/HeatingandCoolingRebates/Pages/WaterHeaterRebates.aspx">http://www.xcelenergy.com/Residential/Programs_Resources/HeatingandCoolingRebates/Pages/WaterHeaterRebates.aspx</a>
Delaware Energy Office	DE	20% of cost	0.82	<a href="http://www.delaware-energy.com/home-performance-rebate-details.htm">http://www.delaware-energy.com/home-performance-rebate-details.htm</a>
Avista Utilities	ID	200	0.82	<a href="https://www.avistautilities.com/savings/rebates/Pages/WashingtonandIdahoCustomerRebates.aspx#high">https://www.avistautilities.com/savings/rebates/Pages/WashingtonandIdahoCustomerRebates.aspx#high</a>
Citizens Gas of Indiana	IN	150	0.82	<a href="http://www.citizensgas.com/forhomes/appliancerebates.html">http://www.citizensgas.com/forhomes/appliancerebates.html</a>
Northern Indiana Public Service Corporation	IN	150	0.82	<a href="http://www.nipsco.com/energyprograms/">http://www.nipsco.com/energyprograms/</a>
Vectren Energy Delivery	IN	150	0.82	<a href="https://www.vectrenenergy.com/selectState.do;jsessionid=q0qSJ3yTL2TWhbTGglLrbvvZghFHPT1NTvm2H4RDYF2W3gRkjpWx!1146985967">https://www.vectrenenergy.com/selectState.do;jsessionid=q0qSJ3yTL2TWhbTGglLrbvvZghFHPT1NTvm2H4RDYF2W3gRkjpWx!1146985967</a>
Cedar Falls Utilities	IA	200	0.82	<a href="http://www.cfu.net/pdf/rebates_08.pdf">http://www.cfu.net/pdf/rebates_08.pdf</a>
Northern Utilities	MA	300	0.82	<a href="http://www.northernutilities.com/forhome/MEeneraudit.htm#mamf">http://www.northernutilities.com/forhome/MEeneraudit.htm#mamf</a>
Berkshire Gas	MA	300	0.82	<a href="http://www.berkshiregas.com/UsageAndSafety/energyefficprog.html">http://www.berkshiregas.com/UsageAndSafety/energyefficprog.html</a>
Hutchinson Utilities Commission	MN	150	0.82	<a href="http://www.hutchinsonutilities.com/rebateresident.html">http://www.hutchinsonutilities.com/rebateresident.html</a>
Northern Utilities	NH	300	0.82	<a href="http://www.northernutilities.com/forhome/NHeneraudit.htm#mamf">http://www.northernutilities.com/forhome/NHeneraudit.htm#mamf</a>
New Jersey Board of Public Utilities	NJ	300	0.82	<a href="http://www.njcleanenergy.com/residential/programs/warmadvantage/warmadvantage">http://www.njcleanenergy.com/residential/programs/warmadvantage/warmadvantage</a>
Avista Utilities	OR	200	0.82	<a href="https://www.avistautilities.com/savings/rebates/Documents/EquipmentRebate04_09.pdf">https://www.avistautilities.com/savings/rebates/Documents/EquipmentRebate04_09.pdf</a>
Texas Gas Service	TX	300	0.82	<a href="http://www.oneok.com/tgs/about/conservation/tgs_residential.jsp">http://www.oneok.com/tgs/about/conservation/tgs_residential.jsp</a>
Questar Gas	UT	300	0.82	<a href="http://www.thermwise.com/home/ApplianceRebates.html">http://www.thermwise.com/home/ApplianceRebates.html</a>
Virginia Natural Gas	VA	250	0.82	<a href="http://vng.aglr.com/Universal/Promotions/GreenZoneRebates.aspx">http://vng.aglr.com/Universal/Promotions/GreenZoneRebates.aspx</a>

Utility or Agency	State	Amount 2009\$	EF	Website
Avista Utilities	WA	200	0.82	<a href="https://www.avistautilities.com/savings/rebates/Pages/WashingtonandIdahoCustomerRebates.aspx#high">https://www.avistautilities.com/savings/rebates/Pages/WashingtonandIdahoCustomerRebates.aspx#high</a>
Puget Sound Energy	WA	150	0.82	<a href="http://www.pse.com/solutions/foryourhome/Pages/rebatesOnAllRebates.aspx">http://www.pse.com/solutions/foryourhome/Pages/rebatesOnAllRebates.aspx</a>
Southern California Gas Company	CA	150	0.82	<a href="http://www.socalgas.com/rebates/residential/tanklesswaterheater/">http://www.socalgas.com/rebates/residential/tanklesswaterheater/</a>
Atmos Energy	CO	100	0.82	<a href="http://www.conservarebates.com/programs/col/_documents/Colorado%20Equipment%20Application20090225.pdf">http://www.conservarebates.com/programs/col/_documents/Colorado%20Equipment%20Application20090225.pdf</a>
Colorado Natural Gas	CO	100	0.82	<a href="http://www.conservarebates.com/programs/col/_documents/Colorado%20Equipment%20Application20090225.pdf">http://www.conservarebates.com/programs/col/_documents/Colorado%20Equipment%20Application20090225.pdf</a>
SourceGas	CO	100	0.82	<a href="http://www.conservarebates.com/programs/col/_documents/Colorado%20Equipment%20Application20090225.pdf">http://www.conservarebates.com/programs/col/_documents/Colorado%20Equipment%20Application20090225.pdf</a>
North Shore Gas (offered by Chicagoland Natural Gas Savings Program)	IL	400	0.82	<a href="http://www.conservarebates.com/programs/chi/CHI_Index.aspx">http://www.conservarebates.com/programs/chi/CHI_Index.aspx</a>
Peoples Gas (offered by Chicagoland Natural Gas Savings Program)	IL	400	0.82	<a href="http://www.conservarebates.com/programs/chi/CHI_Index.aspx">http://www.conservarebates.com/programs/chi/CHI_Index.aspx</a>
Piedmont Natural Gas	NC	250	0.82	<a href="http://www.piedmontng.com/eprise/main/piedmontng/residential/aboutNaturalGasSection/efficiencyPrograms1a">http://www.piedmontng.com/eprise/main/piedmontng/residential/aboutNaturalGasSection/efficiencyPrograms1a</a>
Minnesota Energy Resources	MN	250	0.84	<a href="http://www.minnesotaenergyresources.com/home/rebates.aspx">http://www.minnesotaenergyresources.com/home/rebates.aspx</a>
MidAmerican Energy Company - Illinois	IL	50	0.85	<a href="http://www.midamericanenergy.com/pdf/il_res_equip.pdf">http://www.midamericanenergy.com/pdf/il_res_equip.pdf</a>
MidAmerican Energy Residential Equipment Rebate Program	IA	50	0.85	<a href="http://www.midamericanenergy.com/pdf/ee_resident_rebates.pdf">http://www.midamericanenergy.com/pdf/ee_resident_rebates.pdf</a>
Southern California Gas Company	CA	200	0.90	<a href="http://www.socalgas.com/rebates/residential/tanklesswaterheater/">http://www.socalgas.com/rebates/residential/tanklesswaterheater/</a>
Central Florida Gas	FL	525	NA	<a href="http://www.cfgas.com/index.cfm?fuseaction=residential.rebateshomes">http://www.cfgas.com/index.cfm?fuseaction=residential.rebateshomes</a>
Central Florida Gas	FL	350	NA	<a href="http://www.cfgas.com/index.cfm?fuseaction=residential.rebateshomes">http://www.cfgas.com/index.cfm?fuseaction=residential.rebateshomes</a>
<b>Average Rebate Amount for EF = 0.62, 2009\$</b>		<b>56</b>		
<b>Average Rebate Amount for EF = 0.80, 2009\$</b>		<b>241</b>		

NA = Not applicable/available.

Websites were accessed most recently between March and June of 2009.

### 15-A.4.2 Rebate Programs for Electric Water Heaters

DOE found 101 organizations, comprising electric utilities and municipal and regional agencies that have rebate programs for electric water heaters. The organizations offer rebates for units that meet a range of efficiency criteria. Table 15-A.4.2 lists the organizations' names, states, efficiency levels, rebate amounts, and program websites. If there is more than one entry for an organization, that organization offers different rebates based on water heater size. The average rebate amounts, given in 2008\$ and 2009\$ at the end of the table, are simple averages of the individual amounts (rather than being population-weighted).

**Table 15-A.4.2 Rebates for Electric Water Heaters**

Utility or Agency	State	Amount 2009\$	EF	Website
Carbon Power & Light, Inc.	WY	286	0.78	<a href="http://www.carbonpower.com/rebates.htm">http://www.carbonpower.com/rebates.htm</a>
Carbon Power & Light, Inc.	WY	241	0.81	<a href="http://www.carbonpower.com/rebates.htm">http://www.carbonpower.com/rebates.htm</a>
Carbon Power & Light, Inc.	WY	196	0.83	<a href="http://www.carbonpower.com/rebates.htm">http://www.carbonpower.com/rebates.htm</a>
Poudre Valley REA	CO	70	0.84	<a href="http://www.pvrea.com/programs/rebates.htm">http://www.pvrea.com/programs/rebates.htm</a>
Central New Mexico Electric Cooperative	NM	70	0.84	<a href="http://www.cnmec.coop/water_heater_rebate_guidelines.htm#">http://www.cnmec.coop/water_heater_rebate_guidelines.htm#</a>
Central New Mexico Electric Cooperative	NM	120	0.84	<a href="http://www.cnmec.coop/water_heater_rebate_guidelines.htm#">http://www.cnmec.coop/water_heater_rebate_guidelines.htm#</a>
Carbon Power & Light, Inc.	WY	350	0.84	<a href="http://www.carbonpower.com/rebates.htm">http://www.carbonpower.com/rebates.htm</a>
Kootenai Electric Cooperative	ID	100	0.85	<a href="http://www.kec.com/rebates.php">http://www.kec.com/rebates.php</a>
Forest Grove Light & Power	OR	40	0.85	<a href="http://www.forestgrove-or.gov/images/stories/services/lightandpower/pdf/march2009appliancerebateform.pdf">http://www.forestgrove-or.gov/images/stories/services/lightandpower/pdf/march2009appliancerebateform.pdf</a>
Franklin County PUD	WA	25	0.85	<a href="http://www.franklinpud.com/html/res_rebates.html">http://www.franklinpud.com/html/res_rebates.html</a>
Inland Power & Light Company	WA	25	0.85	<a href="http://www.inlandpower.com/customer_care.php?id=177">http://www.inlandpower.com/customer_care.php?id=177</a>
Orcas Power and Light Cooperative	WA	40	0.85	<a href="http://www.opalco.com/energy-efficiency/rebates/">http://www.opalco.com/energy-efficiency/rebates/</a>
Orcas Power and Light Cooperative	WA	25	0.85	<a href="http://www.opalco.com/energy-efficiency/rebates/">http://www.opalco.com/energy-efficiency/rebates/</a>
Port Angeles Public Works and Utilities	WA	25	0.85	<a href="https://www.cityofpa.us/PDFs/Conservation/2007/APPLIANCEREBATESResident.pdf">https://www.cityofpa.us/PDFs/Conservation/2007/APPLIANCEREBATESResident.pdf</a>
City of Richland	WA	25	0.85	<a href="http://www.ci.richland.wa.us/RICHLAND/Electric/index.cfm?PageNum=89">http://www.ci.richland.wa.us/RICHLAND/Electric/index.cfm?PageNum=89</a>
Carbon Power & Light, Inc.	WY	167	0.85	<a href="http://www.carbonpower.com/rebates.htm">http://www.carbonpower.com/rebates.htm</a>
Poudre Valley REA	CO	70	0.86	<a href="http://www.pvrea.com/programs/rebates.htm">http://www.pvrea.com/programs/rebates.htm</a>
North Georgia Electric Membership Corporation	GA	25	0.86	<a href="http://www.ngemc.com/waterHeater.htm">http://www.ngemc.com/waterHeater.htm</a>
Central New Mexico Electric Cooperative	NM	70	0.86	<a href="http://www.cnmec.coop/water_heater_rebate_guidelines.htm#">http://www.cnmec.coop/water_heater_rebate_guidelines.htm#</a>

Utility or Agency	State	Amount 2009\$	EF	Website
Central New Mexico Electric Cooperative	NM	120	0.86	<a href="http://www.cnmec.coop/water_heater_rebate_guidelines.htm#">http://www.cnmec.coop/water_heater_rebate_guidelines.htm#</a>
Carbon Power & Light, Inc.	WY	290	0.86	<a href="http://www.carbonpower.com/rebates.htm">http://www.carbonpower.com/rebates.htm</a>
Carbon Power & Light, Inc.	WY	163	0.86	<a href="http://www.carbonpower.com/rebates.htm">http://www.carbonpower.com/rebates.htm</a>
Carbon Power & Light, Inc.	WY	140	0.87	<a href="http://www.carbonpower.com/rebates.htm">http://www.carbonpower.com/rebates.htm</a>
Hawaiian Electric Company, Inc.	HI	70	0.88	<a href="http://www.heco.com/portal/site/heco/menuitem.508576f78baa14340b4c0610c510b1ca/?vgnextoid=2cd95e658e0fc010VgnVCM1000008119fea9RCRD&amp;vgnnextfmt=default">http://www.heco.com/portal/site/heco/menuitem.508576f78baa14340b4c0610c510b1ca/?vgnextoid=2cd95e658e0fc010VgnVCM1000008119fea9RCRD&amp;vgnnextfmt=default</a>
Poudre Valley REA	CO	70	0.89	<a href="http://www.pvrea.com/programs/rebates.htm">http://www.pvrea.com/programs/rebates.htm</a>
Black Hills Power	MT	1 per gallon	0.89	<a href="http://www.blackhillspower.com/rebprog.htm">http://www.blackhillspower.com/rebprog.htm</a>
Central New Mexico Electric Cooperative	NM	70	0.89	<a href="http://www.cnmec.coop/water_heater_rebate_guidelines.htm#">http://www.cnmec.coop/water_heater_rebate_guidelines.htm#</a>
Central New Mexico Electric Cooperative	NM	120	0.89	<a href="http://www.cnmec.coop/water_heater_rebate_guidelines.htm#">http://www.cnmec.coop/water_heater_rebate_guidelines.htm#</a>
Black Hills Power	SD	1 per gallon	0.89	<a href="http://www.blackhillspower.com/rebprog.htm">http://www.blackhillspower.com/rebprog.htm</a>
Modern Electric Water Company	WA	75	0.89	<a href="http://www.mewco.com/PDFs/Water%20Heater.pdf">http://www.mewco.com/PDFs/Water%20Heater.pdf</a>
Black Hills Power	MT	1 per gallon	0.89	<a href="http://www.blackhillspower.com/rebprog.htm">http://www.blackhillspower.com/rebprog.htm</a>
Carbon Power & Light, Inc.	WY	230	0.89	<a href="http://www.carbonpower.com/rebates.htm">http://www.carbonpower.com/rebates.htm</a>
Carbon Power & Light, Inc.	WY	118	0.89	<a href="http://www.carbonpower.com/rebates.htm">http://www.carbonpower.com/rebates.htm</a>
Sulphur Springs Valley Electric Cooperative	AZ	150	0.90	<a href="http://www.ssvec.org/documents/Water_Heater_Rebate_Form_2008.doc">http://www.ssvec.org/documents/Water_Heater_Rebate_Form_2008.doc</a>
Poudre Valley REA	CO	70	0.90	<a href="http://www.pvrea.com/programs/rebates.htm">http://www.pvrea.com/programs/rebates.htm</a>
Poudre Valley REA	CO	70	0.90	<a href="http://www.pvrea.com/programs/rebates.htm">http://www.pvrea.com/programs/rebates.htm</a>
North Georgia Electric Membership Corporation	GA	50	0.90	<a href="http://www.ngemc.com/waterHeater.htm">http://www.ngemc.com/waterHeater.htm</a>
Bartholomew County Rural Electric Membership Cooperative	IN	250	0.90	<a href="http://www.bcremc.com/heater.html">http://www.bcremc.com/heater.html</a>
Bartholomew County Rural Electric Membership Cooperative	IN	150	0.90	<a href="http://www.bcremc.com/heater.html">http://www.bcremc.com/heater.html</a>
Carroll County REMC	IN	150	0.90	<a href="http://www.carrollcountyremc.com/index.php?page=services">http://www.carrollcountyremc.com/index.php?page=services</a>
Clark County REMC	IN	100	0.90	<a href="http://www.thremc.com/rebates.html#anchor1">http://www.thremc.com/rebates.html#anchor1</a>
Clark County REMC	IN	100	0.90	<a href="http://www.thremc.com/rebates.html#anchor1">http://www.thremc.com/rebates.html#anchor1</a>
Clark County REMC	IN	100	0.90	<a href="http://www.thremc.com/rebates.html#anchor1">http://www.thremc.com/rebates.html#anchor1</a>

Utility or Agency	State	Amount 2009\$	EF	Website
Clark County REMC	IN	200	0.90	<a href="http://www.theremc.com/rebates.html#anchor1">http://www.theremc.com/rebates.html#anchor1</a>
Dubois REC	IN	50	0.90	<a href="http://www.duboisrec.com/rebates.html">http://www.duboisrec.com/rebates.html</a>
Dubois REC	IN	150	0.90	<a href="http://www.duboisrec.com/rebates.html">http://www.duboisrec.com/rebates.html</a>
Rush Shelby Energy	IN	150	0.90	<a href="http://www.rse.coop/waterheater.html">http://www.rse.coop/waterheater.html</a>
Rush Shelby Energy	IN	50	0.90	<a href="http://www.rse.coop/waterheater.html">http://www.rse.coop/waterheater.html</a>
Southern Indiana Rural Electric Cooperative	IN	50	0.90	<a href="http://www.sirec.com/Forms/2009RebateTable_Form_Southern_flds.pdf">http://www.sirec.com/Forms/2009RebateTable_Form_Southern_flds.pdf</a>
Southern Indiana Rural Electric Cooperative	IN	150	0.90	<a href="http://www.sirec.com/Forms/2009RebateTable_Form_Southern_flds.pdf">http://www.sirec.com/Forms/2009RebateTable_Form_Southern_flds.pdf</a>
WIN Energy REMC	IN	50	0.90	<a href="http://www.winenergyremc.com/rebates.html">http://www.winenergyremc.com/rebates.html</a>
WIN Energy REMC	IN	150	0.90	<a href="http://www.winenergyremc.com/rebates.html">http://www.winenergyremc.com/rebates.html</a>
Linn County Rural Electric Cooperative Association	IA	250	0.90	<a href="http://www.linncountyrec.com/cgi-script/csarticles/articles/000003/000329.htm">http://www.linncountyrec.com/cgi-script/csarticles/articles/000003/000329.htm</a>
Owen Electric Cooperative, Inc	KY	100	0.90	<a href="http://www.owenelectric.com/pdfs/forms/Water%20Heater.pdf">http://www.owenelectric.com/pdfs/forms/Water%20Heater.pdf</a>
Pearl River Valley Electric Power Association	MS	150	0.90	<a href="http://www.prvepa.com/comfadv.html">http://www.prvepa.com/comfadv.html</a>
Independence Power & Light	MO	75	0.90	<a href="http://www.ci.independence.mo.us/pl/pdf/rebate_ewh.pdf">http://www.ci.independence.mo.us/pl/pdf/rebate_ewh.pdf</a>
Independence Power & Light	MO	100	0.90	<a href="http://www.ci.independence.mo.us/pl/pdf/rebate_ewh.pdf">http://www.ci.independence.mo.us/pl/pdf/rebate_ewh.pdf</a>
Independence Power & Light	MO	125	0.90	<a href="http://www.ci.independence.mo.us/pl/pdf/rebate_ewh.pdf">http://www.ci.independence.mo.us/pl/pdf/rebate_ewh.pdf</a>
Independence Power & Light	MO	150	0.90	<a href="http://www.ci.independence.mo.us/pl/pdf/rebate_ewh.pdf">http://www.ci.independence.mo.us/pl/pdf/rebate_ewh.pdf</a>
Black Hills Power	MT	2 per gallon	0.90	<a href="http://www.blackhillspower.com/rebprog.htm">http://www.blackhillspower.com/rebprog.htm</a>
Central New Mexico Electric Cooperative	NM	70	0.90	<a href="http://www.cnmec.coop/water_heater_rebate_guidelines.htm#">http://www.cnmec.coop/water_heater_rebate_guidelines.htm#</a>
Central New Mexico Electric Cooperative	NM	120	0.90	<a href="http://www.cnmec.coop/water_heater_rebate_guidelines.htm#">http://www.cnmec.coop/water_heater_rebate_guidelines.htm#</a>
Black Hills Power	SD	2 per gallon	0.90	<a href="http://www.blackhillspower.com/rebprog.htm">http://www.blackhillspower.com/rebprog.htm</a>
Tri-County Electric Cooperative	TX	75	0.90	<a href="http://www.tcectexas.com/waterheaterrebate.htm">http://www.tcectexas.com/waterheaterrebate.htm</a>
Black Hills Power	MT	2 per gallon	0.90	<a href="http://www.blackhillspower.com/rebprog.htm">http://www.blackhillspower.com/rebprog.htm</a>
Carbon Power & Light, Inc.	WY	200	0.90	<a href="http://www.carbonpower.com/rebates.htm">http://www.carbonpower.com/rebates.htm</a>
Ozark Border Electric Cooperative	MO	75	0.90	<a href="http://www.ozarkborder.org/rebates.html">http://www.ozarkborder.org/rebates.html</a>
Ozark Border Electric Cooperative	MO	50	0.90	<a href="http://www.ozarkborder.org/rebates.html">http://www.ozarkborder.org/rebates.html</a>
Truckee Donner Public Utility District	CA	2	0.91	<a href="http://www.tdpud.org/pdf/Rebate%20program%20pamphlet,May07.pdf">http://www.tdpud.org/pdf/Rebate%20program%20pamphlet,May07.pdf</a>



Utility or Agency	State	Amount 2009\$	EF	Website
		per gallon		
Groton Utilities	CT	60	0.91	<a href="http://www.grotonutilities.com/files/conservation_forms/Appliance_Rebate.pdf">http://www.grotonutilities.com/files/conservation_forms/Appliance_Rebate.pdf</a>
Norwich Public Utilities	CT	60	0.91	<a href="http://www.norwichpublicutilities.com/pdfs/2009%20Appliance%20Rebate%20Form.pdf">http://www.norwichpublicutilities.com/pdfs/2009%20Appliance%20Rebate%20Form.pdf</a>
Blue Ridge Mountain EMC and TVA	GA	150	0.91	<a href="http://www.brmemc.com/Products/EnergyRight/EnergyRight.html#Requirements">http://www.brmemc.com/Products/EnergyRight/EnergyRight.html#Requirements:</a>
Hawaiian Electric Company, Inc.	HI	50	0.91	<a href="http://www.heco.com/portal/site/heco/menuitem.508576f78baa14340b4c0610c510b1ca/?vgnextoid=2cd95e658e0fc010VgnVCM1000008119fea9RCRD&amp;vgnextfmt=default">http://www.heco.com/portal/site/heco/menuitem.508576f78baa14340b4c0610c510b1ca/?vgnextoid=2cd95e658e0fc010VgnVCM1000008119fea9RCRD&amp;vgnextfmt=default</a>
Kootenai Electric Cooperative	ID	100	0.91	<a href="http://www.kec.com/rebates.php">http://www.kec.com/rebates.php</a>
Kootenai Electric Cooperative	ID	100	0.91	<a href="http://www.kec.com/rebates.php">http://www.kec.com/rebates.php</a>
Kootenai Electric Cooperative	ID	100	0.91	<a href="http://www.kec.com/rebates.php">http://www.kec.com/rebates.php</a>
Kansas City Board of Public Utilities Energy	KS	220	0.91	<a href="http://www.bpu.com/documents/ResidentialHPRebateScheduleeffJan2007withIncentives.pdf">http://www.bpu.com/documents/ResidentialHPRebateScheduleeffJan2007withIncentives.pdf</a>
Kansas City Board of Public Utilities Energy	KS	225	0.91	<a href="http://www.bpu.com/documents/ResidentialHPRebateScheduleeffJan2007withIncentives.pdf">http://www.bpu.com/documents/ResidentialHPRebateScheduleeffJan2007withIncentives.pdf</a>
Kansas City Board of Public Utilities Energy	KS	100	0.91	<a href="http://www.bpu.com/documents/ResidentialHPRebateScheduleeffJan2007withIncentives.pdf">http://www.bpu.com/documents/ResidentialHPRebateScheduleeffJan2007withIncentives.pdf</a>
Co-Mo Electric Cooperative	MO	50	0.91	<a href="http://www.co-mo.coop/Website%20Rebate%20Application-Home%20Appliances.pdf">http://www.co-mo.coop/Website%20Rebate%20Application-Home%20Appliances.pdf</a>
Flathead Electric Cooperative	MT	60	0.91	<a href="http://www.flatheadelectric.com/energy/Rebates.html">http://www.flatheadelectric.com/energy/Rebates.html</a>
City of Ashland Conservation District	OR	65	0.91	<a href="http://www.ashland.or.us/Files/waterheaterrebate_1.pdf">http://www.ashland.or.us/Files/waterheaterrebate_1.pdf</a>
Central Electric Cooperative	OR	25	0.91	<a href="http://www.cec-co.com/prodserv/residential/water_heater/water_heater.html">http://www.cec-co.com/prodserv/residential/water_heater/water_heater.html</a>
Douglas Electric Cooperative	OR	25	0.91	<a href="http://www.douglaselectric.com/programs/rebate_credits.php#water">http://www.douglaselectric.com/programs/rebate_credits.php#water</a>
Eugene Water and Electric Board	OR	25	0.91	<a href="http://www.eweb.org/content.aspx/34350f11-4e37-4650-9ce3-0aa933fd6c61">http://www.eweb.org/content.aspx/34350f11-4e37-4650-9ce3-0aa933fd6c61</a>
Eugene Water and Electric Board	OR	25	0.91	<a href="http://www.eweb.org/content.aspx/34350f11-4e37-4650-9ce3-0aa933fd6c61">http://www.eweb.org/content.aspx/34350f11-4e37-4650-9ce3-0aa933fd6c61</a>
Forest Grove Light & Power	OR	40	0.91	<a href="http://www.forestgrove-or.gov/images/stories/services/lightandpower/pdf/march2009appliancerebateform.pdf">http://www.forestgrove-or.gov/images/stories/services/lightandpower/pdf/march2009appliancerebateform.pdf</a>
Forest Grove Light & Power	OR	45	0.91	<a href="http://www.forestgrove-or.gov/images/stories/services/lightandpower/pdf/march2009appliancerebateform.pdf">http://www.forestgrove-or.gov/images/stories/services/lightandpower/pdf/march2009appliancerebateform.pdf</a>
Midstate Electric Cooperative	OR	50	0.91	<a href="http://www.midstateelectric.coop/ProductsAndServices/PSResidential/ConservationPrograms/reswaterheater/default.aspx">http://www.midstateelectric.coop/ProductsAndServices/PSResidential/ConservationPrograms/reswaterheater/default.aspx</a>

Utility or Agency	State	Amount 2009\$	EF	Website
Monmouth Power & Light	OR	25	0.91	<a href="http://www.ci.monmouth.or.us/vertical/Sites/%7BCE78EAE1-6CA4-4610-BDB0-A9B3B0A8BB71%7D/uploads/%7B75B91CB0-E22B-4032-A232-C3DC21796769%7D.PDF">http://www.ci.monmouth.or.us/vertical/Sites/%7BCE78EAE1-6CA4-4610-BDB0-A9B3B0A8BB71%7D/uploads/%7B75B91CB0-E22B-4032-A232-C3DC21796769%7D.PDF</a>
Monmouth Power & Light	OR	45	0.91	<a href="http://www.ci.monmouth.or.us/vertical/Sites/%7BCE78EAE1-6CA4-4610-BDB0-A9B3B0A8BB71%7D/uploads/%7B75B91CB0-E22B-4032-A232-C3DC21796769%7D.PDF">http://www.ci.monmouth.or.us/vertical/Sites/%7BCE78EAE1-6CA4-4610-BDB0-A9B3B0A8BB71%7D/uploads/%7B75B91CB0-E22B-4032-A232-C3DC21796769%7D.PDF</a>
Salem Electric	OR	60	0.91	<a href="http://www.salemelectric.com/PDFs/rebatebrochure.pdf">http://www.salemelectric.com/PDFs/rebatebrochure.pdf</a>
Tillamook County PUD	OR	50	0.91	<a href="http://www.tpud.org/nrg_appliance.html">http://www.tpud.org/nrg_appliance.html</a>
Tillamook County PUD	OR	200	0.91	<a href="http://www.tpud.org/nrg_appliance.html">http://www.tpud.org/nrg_appliance.html</a>
PUD #1 of Clallam County	WA	50	0.91	<a href="http://www.clallampud.net/conservation/res_Water_Heaters.asp">http://www.clallampud.net/conservation/res_Water_Heaters.asp</a>
Franklin County PUD	WA	25	0.91	<a href="http://www.franklinpud.com/html/res_rebates.html">http://www.franklinpud.com/html/res_rebates.html</a>
Franklin County PUD	WA	25	0.91	<a href="http://www.franklinpud.com/html/res_rebates.html">http://www.franklinpud.com/html/res_rebates.html</a>
Franklin County PUD	WA	25	0.91	<a href="http://www.franklinpud.com/html/res_rebates.html">http://www.franklinpud.com/html/res_rebates.html</a>
Grays Harbor PUD	WA	25	0.91	<a href="https://www.ghpud.org/index.php?option=com_docman&amp;task=doc_download&amp;gid=61&amp;Itemid=121">https://www.ghpud.org/index.php?option=com_docman&amp;task=doc_download&amp;gid=61&amp;Itemid=121</a>
Inland Power & Light Company	WA	25	0.91	<a href="http://www.inlandpower.com/customer_care.php?id=177">http://www.inlandpower.com/customer_care.php?id=177</a>
Modern Electric Water Company	WA	75	0.91	<a href="http://www.mewco.com/PDFs/Water%20Heater.pdf">http://www.mewco.com/PDFs/Water%20Heater.pdf</a>
Orcas Power and Light Cooperative	WA	40	0.91	<a href="http://www.opalco.com/energy-efficiency/rebates/">http://www.opalco.com/energy-efficiency/rebates/</a>
Orcas Power and Light Cooperative	WA	25	0.91	<a href="http://www.opalco.com/energy-efficiency/rebates/">http://www.opalco.com/energy-efficiency/rebates/</a>
Port Angeles Public Works and Utilities	WA	25	0.91	<a href="https://www.cityofpa.us/PDFs/Conservation/2007/APPLIANCEREBATESResident.pdf">https://www.cityofpa.us/PDFs/Conservation/2007/APPLIANCEREBATESResident.pdf</a>
Port Angeles Public Works and Utilities	WA	25	0.91	<a href="https://www.cityofpa.us/PDFs/Conservation/2007/APPLIANCEREBATESResident.pdf">https://www.cityofpa.us/PDFs/Conservation/2007/APPLIANCEREBATESResident.pdf</a>
Port Angeles Public Works and Utilities	WA	50	0.91	<a href="https://www.cityofpa.us/PDFs/Conservation/2007/APPLIANCEREBATESResident.pdf">https://www.cityofpa.us/PDFs/Conservation/2007/APPLIANCEREBATESResident.pdf</a>
City of Richland	WA	25	0.91	<a href="http://www.ci.richland.wa.us/RICHLAND/Electric/index.cfm?PageNum=89">http://www.ci.richland.wa.us/RICHLAND/Electric/index.cfm?PageNum=89</a>
City of Richland	WA	25	0.91	<a href="http://www.ci.richland.wa.us/RICHLAND/Electric/index.cfm?PageNum=89">http://www.ci.richland.wa.us/RICHLAND/Electric/index.cfm?PageNum=89</a>
Eau Claire Energy Cooperative	WI	420	0.91	<a href="http://www.ecec.com/programs/incentives/index.cfm">http://www.ecec.com/programs/incentives/index.cfm</a>
Orcas Power and Light Cooperative	WA	100	0.91	<a href="http://www.opalco.com/wp-content/uploads/2009/03/marathonrebate09.pdf">http://www.opalco.com/wp-content/uploads/2009/03/marathonrebate09.pdf</a>
Holy Cross Energy	CO	75	0.92	<a href="http://www.holycross.com/">http://www.holycross.com/</a>
Poudre Valley REA	CO	70	0.92	<a href="http://www.pvrea.com/programs/rebates.htm">http://www.pvrea.com/programs/rebates.htm</a>

Utility or Agency	State	Amount 2009\$	EF	Website
Hawaiian Electric Company, Inc.	HI	50	0.92	<a href="http://www.heco.com/portal/site/heco/menuitem.508576f78baa14340b4c0610c510b1ca/?vgnextoid=2cd95e658e0fc010VgnVCM1000008119fea9RCRD&amp;vgnextfmt=default">http://www.heco.com/portal/site/heco/menuitem.508576f78baa14340b4c0610c510b1ca/?vgnextoid=2cd95e658e0fc010VgnVCM1000008119fea9RCRD&amp;vgnextfmt=default</a>
Kootenai Electric Cooperative	ID	100	0.92	<a href="http://www.kec.com/rebates.php">http://www.kec.com/rebates.php</a>
Linn County Rural Electric Cooperative Association	IA	250	0.92	<a href="http://www.linncountyrec.com/cgi-script/csarticles/articles/000003/000329.htm">http://www.linncountyrec.com/cgi-script/csarticles/articles/000003/000329.htm</a>
Intercounty Electric Cooperative	MO	50	0.92	<a href="http://www.ieca.coop/PROGRAMS/REBATES/tabid/116/Default.aspx">http://www.ieca.coop/PROGRAMS/REBATES/tabid/116/Default.aspx</a>
Central New Mexico Electric Cooperative	NM	70	0.92	<a href="http://www.cnmec.coop/water_heater_rebate_guidelines.htm#">http://www.cnmec.coop/water_heater_rebate_guidelines.htm#</a>
Central New Mexico Electric Cooperative	NM	120	0.92	<a href="http://www.cnmec.coop/water_heater_rebate_guidelines.htm#">http://www.cnmec.coop/water_heater_rebate_guidelines.htm#</a>
Columbia River PUD	OR	250	0.92	<a href="http://www.crpud.net/residential/efficiency/water-heaters">http://www.crpud.net/residential/efficiency/water-heaters</a>
Eugene Water and Electric Board	OR	50	0.92	<a href="http://www.eweb.org/content.aspx/34350f11-4e37-4650-9ce3-0aa933fd6c61">http://www.eweb.org/content.aspx/34350f11-4e37-4650-9ce3-0aa933fd6c61</a>
Forest Grove Light & Power	OR	65	0.92	<a href="http://www.forestgrove-or.gov/images/stories/services/lightandpower/pdf/march2009appliancerebateform.pdf">http://www.forestgrove-or.gov/images/stories/services/lightandpower/pdf/march2009appliancerebateform.pdf</a>
Forest Grove Light & Power	OR	75	0.92	<a href="http://www.forestgrove-or.gov/images/stories/services/lightandpower/pdf/march2009appliancerebateform.pdf">http://www.forestgrove-or.gov/images/stories/services/lightandpower/pdf/march2009appliancerebateform.pdf</a>
Forest Grove Light & Power	OR	100	0.92	<a href="http://www.forestgrove-or.gov/images/stories/services/lightandpower/pdf/march2009appliancerebateform.pdf">http://www.forestgrove-or.gov/images/stories/services/lightandpower/pdf/march2009appliancerebateform.pdf</a>
Monmouth Power & Light	OR	50	0.92	<a href="http://www.ci.monmouth.or.us/vertical/Sites/%7BCE78EAE1-6CA4-4610-BDB0-A9B3B0A8BB71%7D/uploads/%7B75B91CB0-E22B-4032-A232-C3DC21796769%7D.PDF">http://www.ci.monmouth.or.us/vertical/Sites/%7BCE78EAE1-6CA4-4610-BDB0-A9B3B0A8BB71%7D/uploads/%7B75B91CB0-E22B-4032-A232-C3DC21796769%7D.PDF</a>
Tillamook County PUD	OR	50	0.92	<a href="http://www.tpud.org/nrg_appliance.html">http://www.tpud.org/nrg_appliance.html</a>
Tillamook County PUD	OR	50	0.92	<a href="http://www.tpud.org/nrg_appliance.html">http://www.tpud.org/nrg_appliance.html</a>
Tillamook County PUD	OR	175	0.92	<a href="http://www.tpud.org/nrg_appliance.html">http://www.tpud.org/nrg_appliance.html</a>
Tillamook County PUD	OR	180	0.92	<a href="http://www.tpud.org/nrg_appliance.html">http://www.tpud.org/nrg_appliance.html</a>
Farmers Electric Cooperative	TX	100	0.92	<a href="http://www.fecelectric.com/fecinternet2005/01-MyAccount/07-Residential.asp">http://www.fecelectric.com/fecinternet2005/01-MyAccount/07-Residential.asp</a>
United Cooperative Services	TX	75	0.92	<a href="http://www.united-cs.com/rebates.htm">http://www.united-cs.com/rebates.htm</a>
Columbia REA	WA	200	0.92	<a href="http://www.columbiarea.com/programs/Res%20Rebate%20Application_updated_081001.pdf">http://www.columbiarea.com/programs/Res%20Rebate%20Application_updated_081001.pdf</a>
Port Angeles Public Works and Utilities	WA	50	0.92	<a href="https://www.cityofpa.us/PDFs/Conservation/2007/APPLIANCEREBATESResident.pdf">https://www.cityofpa.us/PDFs/Conservation/2007/APPLIANCEREBATESResident.pdf</a>
Eau Claire Energy Cooperative	WI	250	0.92	<a href="http://www.ecec.com/programs/incentives/index.cfm">http://www.ecec.com/programs/incentives/index.cfm</a>

Utility or Agency	State	Amount 2009\$	EF	Website
Carbon Power & Light, Inc.	WY	170	0.92	<a href="http://www.carbonpower.com/rebates.htm">http://www.carbonpower.com/rebates.htm</a>
Orcas Power and Light Cooperative	WA	100	0.92	<a href="http://www.opalco.com/wp-content/uploads/2009/03/marathonrebate09.pdf">http://www.opalco.com/wp-content/uploads/2009/03/marathonrebate09.pdf</a>
Orcas Power and Light Cooperative	WA	100	0.92	<a href="http://www.opalco.com/wp-content/uploads/2009/03/marathonrebate09.pdf">http://www.opalco.com/wp-content/uploads/2009/03/marathonrebate09.pdf</a>
Lassen Municipal Utility District	CA	350	0.92	<a href="http://www.lmud.org/rebate.htm">http://www.lmud.org/rebate.htm</a>
City of Palo Alto Utilities	CA	40	0.93	<a href="http://www.cpau.com/civica/filebank/blobdload.asp?BlobID=4365">http://www.cpau.com/civica/filebank/blobdload.asp?BlobID=4365</a>
Modesto Irrigation District	CA	25	0.93	<a href="http://www.mid.org/rebates/home/appliance.htm">http://www.mid.org/rebates/home/appliance.htm</a>
Pacific Power	CA	40	0.93	<a href="http://homeenergysavingspp.net/california/waterheaters.html">http://homeenergysavingspp.net/california/waterheaters.html</a>
PG&E	CA	30	0.93	<a href="http://www.pge.com/includes/docs/pdfs/shared/saveenergymoney/rebates/08_residential_appliance.pdf">http://www.pge.com/includes/docs/pdfs/shared/saveenergymoney/rebates/08_residential_appliance.pdf</a>
Southern California Edison	CA	30	0.93	<a href="http://www.sce.com/residential/rebates-savings/appliance/electric-water-heater.htm">http://www.sce.com/residential/rebates-savings/appliance/electric-water-heater.htm</a>
San Diego Gas and Electric	CA	30	0.93	<a href="http://www.sdge.com/residential/waterHeaters.shtml">http://www.sdge.com/residential/waterHeaters.shtml</a>
Truckee Donner Public Utility District	CA	2 per gallon	0.93	<a href="http://www.tdpud.org/pdf/Rebate%20program%20pamphlet,May07.pdf">http://www.tdpud.org/pdf/Rebate%20program%20pamphlet,May07.pdf</a>
Poudre Valley REA	CO	70	0.93	<a href="http://www.pvrea.com/programs/rebates.htm">http://www.pvrea.com/programs/rebates.htm</a>
Groton Utilities	CT	60	0.93	<a href="http://www.grotonutilities.com/files/conservation_forms/Appliance_Rebate.pdf">http://www.grotonutilities.com/files/conservation_forms/Appliance_Rebate.pdf</a>
Norwich Public Utilities	CT	60	0.93	<a href="http://www.norwichpublicutilities.com/pdfs/2009%20Appliance%20Rebate%20Form.pdf">http://www.norwichpublicutilities.com/pdfs/2009%20Appliance%20Rebate%20Form.pdf</a>
Hawaiian Electric Company, Inc.	HI	40	0.93	<a href="http://www.heco.com/portal/site/heco/menuitem.508576f78baa14340b4c0610c510b1ca/?vgnextoid=2cd95e658e0fc010VgnVCM1000008119fea9RCRD&amp;vgnnextfmt=default">http://www.heco.com/portal/site/heco/menuitem.508576f78baa14340b4c0610c510b1ca/?vgnextoid=2cd95e658e0fc010VgnVCM1000008119fea9RCRD&amp;vgnnextfmt=default</a>
Avista Utilities	ID	50	0.93	<a href="https://www.avistautilities.com/savings/rebates/Pages/WashingtonandIdahoCustomerRebates.aspx#high">https://www.avistautilities.com/savings/rebates/Pages/WashingtonandIdahoCustomerRebates.aspx#high</a>
Kootenai Electric Cooperative	ID	100	0.93	<a href="http://www.kec.com/rebates.php">http://www.kec.com/rebates.php</a>
Rocky Mountain Power	ID	50	0.93	<a href="http://www.homeenergysavings.net/idaho/waterheaters.html">http://www.homeenergysavings.net/idaho/waterheaters.html</a>
Interstate Power and Light (Alliant Energy)	IA	50	0.93	<a href="http://alliantenergy.com/UtilityServices/ForYourHome/RewardsIncentives/owaIncentivePrograms/014675">http://alliantenergy.com/UtilityServices/ForYourHome/RewardsIncentives/owaIncentivePrograms/014675</a>
Kansas City Board of Public Utilities Energy	KS	175	0.93	<a href="http://www.bpu.com/documents/ResidentialHPRebateScheduleeffJan2007withIncentives.pdf">http://www.bpu.com/documents/ResidentialHPRebateScheduleeffJan2007withIncentives.pdf</a>
Flathead Electric Cooperative	MT	60	0.93	<a href="http://www.flatheadelectric.com/energy/Rebates.html">http://www.flatheadelectric.com/energy/Rebates.html</a>
Central New Mexico Electric Cooperative	NM	70	0.93	<a href="http://www.cnmec.coop/water_heater_rebate_guidelines.htm#">http://www.cnmec.coop/water_heater_rebate_guidelines.htm#</a>
Central New Mexico Electric Cooperative	NM	120	0.93	<a href="http://www.cnmec.coop/water_heater_rebate_guidelines.htm#">http://www.cnmec.coop/water_heater_rebate_guidelines.htm#</a>
City of Ashland Conservation District	OR	65	0.93	<a href="http://www.ashland.or.us/Files/waterheaterrebate_1.pdf">http://www.ashland.or.us/Files/waterheaterrebate_1.pdf</a>

Utility or Agency	State	Amount 2009\$	EF	Website
Central Electric Cooperative	OR	25	0.93	<a href="http://www.cec-co.com/prodserv/residential/water_heater/water_heater.html">http://www.cec-co.com/prodserv/residential/water_heater/water_heater.html</a>
Douglas Electric Cooperative	OR	25	0.93	<a href="http://www.douglaselectric.com/programs/rebate_credits.php#water">http://www.douglaselectric.com/programs/rebate_credits.php#water</a>
Energy Trust of Oregon	OR	35	0.93	<a href="http://www.energytrust.org/residential/existinghomes/waterheater.html">http://www.energytrust.org/residential/existinghomes/waterheater.html</a>
Eugene Water and Electric Board	OR	25	0.93	<a href="http://www.eweb.org/content.aspx/34350f11-4e37-4650-9ce3-0aa933fd6c61">http://www.eweb.org/content.aspx/34350f11-4e37-4650-9ce3-0aa933fd6c61</a>
Forest Grove Light & Power	OR	25	0.93	<a href="http://www.forestgrove-or.gov/images/stories/services/lightandpower/pdf/march2009appliancerebateform.pdf">http://www.forestgrove-or.gov/images/stories/services/lightandpower/pdf/march2009appliancerebateform.pdf</a>
Midstate Electric Cooperative	OR	50	0.93	<a href="http://www.midstateelectric.coop/ProductsAndServices/PSResidential/ConservationPrograms/reswaterheater/default.aspx">http://www.midstateelectric.coop/ProductsAndServices/PSResidential/ConservationPrograms/reswaterheater/default.aspx</a>
Monmouth Power & Light	OR	25	0.93	<a href="http://www.ci.monmouth.or.us/vertical/Sites/%7BCE78EAE1-6CA4-4610-BDB0-A9B3B0A8BB71%7D/uploads/%7B75B91CB0-E22B-4032-A232-C3DC21796769%7D.PDF">http://www.ci.monmouth.or.us/vertical/Sites/%7BCE78EAE1-6CA4-4610-BDB0-A9B3B0A8BB71%7D/uploads/%7B75B91CB0-E22B-4032-A232-C3DC21796769%7D.PDF</a>
Oregon Trail Electric Cooperative	OR	100	0.93	<a href="http://www.otec.coop/waterHeater.aspx">http://www.otec.coop/waterHeater.aspx</a>
Salem Electric	OR	60	0.93	<a href="http://www.salemelectric.com/PDFs/rebatebrochure.pdf">http://www.salemelectric.com/PDFs/rebatebrochure.pdf</a>
Springfield Utility Board	OR	25	0.93	<a href="http://www.subutil.com/files/static_page_files/B9F7D628-9114-89A9-AE0AD52296FE251E/RebateForm09.pdf">http://www.subutil.com/files/static_page_files/B9F7D628-9114-89A9-AE0AD52296FE251E/RebateForm09.pdf</a>
Tillamook County PUD	OR	50	0.93	<a href="http://www.tpud.org/nrg_appliance.html">http://www.tpud.org/nrg_appliance.html</a>
Tillamook County PUD	OR	150	0.93	<a href="http://www.tpud.org/nrg_appliance.html">http://www.tpud.org/nrg_appliance.html</a>
Rocky Mountain Power	UT	50	0.93	<a href="http://www.homeenergysavings.net/utah/waterheaters.html">http://www.homeenergysavings.net/utah/waterheaters.html</a>
Avista Utilities	WA	50	0.93	<a href="https://www.avistautilities.com/savings/rebates/Pages/WashingtonandIdahoCustomerRebates.aspx#high">https://www.avistautilities.com/savings/rebates/Pages/WashingtonandIdahoCustomerRebates.aspx#high</a>
Benton PUD	WA	25	0.93	<a href="http://www.bentonpud.org/conservation/res_energy.php">http://www.bentonpud.org/conservation/res_energy.php</a>
PUD #1 of Clallam County	WA	50	0.93	<a href="http://www.clallampud.net/conservation/res_Water_Heaters.asp">http://www.clallampud.net/conservation/res_Water_Heaters.asp</a>
Franklin County PUD	WA	25	0.93	<a href="http://www.franklinpud.com/html/res_rebates.html">http://www.franklinpud.com/html/res_rebates.html</a>
Grays Harbor PUD	WA	25	0.93	<a href="https://www.ghpud.org/index.php?option=com_docman&amp;task=doc_download&amp;gid=61&amp;Itemid=121">https://www.ghpud.org/index.php?option=com_docman&amp;task=doc_download&amp;gid=61&amp;Itemid=121</a>
Mason County PUD 3	WA	25	0.93	<a href="http://www.masonpud3.org/powerSupply/applianceRebates.aspx">http://www.masonpud3.org/powerSupply/applianceRebates.aspx</a>
Modern Electric Water Company	WA	75	0.93	<a href="http://www.mewco.com/PDFs/Water%20Heater.pdf">http://www.mewco.com/PDFs/Water%20Heater.pdf</a>
Orcas Power and Light Cooperative	WA	40	0.93	<a href="http://www.opalco.com/energy-efficiency/rebates/">http://www.opalco.com/energy-efficiency/rebates/</a>
Orcas Power and Light Cooperative	WA	25	0.93	<a href="http://www.opalco.com/energy-efficiency/rebates/">http://www.opalco.com/energy-efficiency/rebates/</a>
Pacific Power	WA	50	0.93	<a href="http://www.homeenergysavingspp.net/washington/waterheaters.html">http://www.homeenergysavingspp.net/washington/waterheaters.html</a>
Port Angeles Public Works and Utilities	WA	25	0.93	<a href="https://www.cityofpa.us/PDFs/Conservation/2007/APPLIANCEREBATESResident.pdf">https://www.cityofpa.us/PDFs/Conservation/2007/APPLIANCEREBATESResident.pdf</a>
City of Richland	WA	25	0.93	<a href="http://www.ci.richland.wa.us/RICHLAND/Electric/index.cfm?PageNum=89">http://www.ci.richland.wa.us/RICHLAND/Electric/index.cfm?PageNum=89</a>

Utility or Agency	State	Amount 2009\$	EF	Website
Vera Conservation Department	WA	100	0.93	<a href="http://www.verawaterandpower.com/Energy_Rebates.htm">http://www.verawaterandpower.com/Energy_Rebates.htm</a>
Cedarburg Light and Water Utility	WI	50	0.93	<a href="http://www.focusonenergy.com/Incentives/Residential/Cash-Back_Rewards/waterheater.aspx">http://www.focusonenergy.com/Incentives/Residential/Cash-Back_Rewards/waterheater.aspx</a>
Focus on Energy	WI	50	0.93	<a href="http://www.focusonenergy.com/Incentives/Residential/Cash-Back_Rewards/waterheater.aspx">http://www.focusonenergy.com/Incentives/Residential/Cash-Back_Rewards/waterheater.aspx</a>
Carbon Power & Light, Inc.	WY	140	0.93	<a href="http://www.carbonpower.com/rebates.htm">http://www.carbonpower.com/rebates.htm</a>
Rocky Mountain Power	WY	50	0.93	<a href="http://www.homeenergysavings.net/utah/waterheaters.html">http://www.homeenergysavings.net/utah/waterheaters.html</a>
Lassen Municipal Utility District	CA	250	0.94	<a href="http://www.lmud.org/rebate.htm">http://www.lmud.org/rebate.htm</a>
Redding Electric Utility	CA	75	0.94	<a href="http://www.reupower.com/energysvc/documents/Jan09EnergyStarpb.pdf">http://www.reupower.com/energysvc/documents/Jan09EnergyStarpb.pdf</a>
Muscatine Power and Water	IA	200	0.94	<a href="http://www.mpw.org/pdf/2009ResRebateForm.pdf">http://www.mpw.org/pdf/2009ResRebateForm.pdf</a>
Columbia River PUD	OR	250	0.94	<a href="http://www.crpud.net/residential/efficiency/water-heaters">http://www.crpud.net/residential/efficiency/water-heaters</a>
Energy Trust of Oregon	OR	75	0.94	<a href="http://www.energytrust.org/residential/existinghomes/waterheater.html">http://www.energytrust.org/residential/existinghomes/waterheater.html</a>
Eugene Water and Electric Board	OR	50	0.94	<a href="http://www.eweb.org/content.aspx/34350f11-4e37-4650-9ce3-0aa933fd6c61">http://www.eweb.org/content.aspx/34350f11-4e37-4650-9ce3-0aa933fd6c61</a>
Forest Grove Light & Power	OR	50	0.94	<a href="http://www.forestgrove-or.gov/images/stories/services/lightandpower/pdf/march2009appliancerebateform.pdf">http://www.forestgrove-or.gov/images/stories/services/lightandpower/pdf/march2009appliancerebateform.pdf</a>
Midstate Electric Cooperative	OR	250	0.94	<a href="http://www.midstateelectric.coop/ProductsAndServices/PSResidential/ConservationPrograms/reswaterheater/default.aspx">http://www.midstateelectric.coop/ProductsAndServices/PSResidential/ConservationPrograms/reswaterheater/default.aspx</a>
Monmouth Power & Light	OR	40	0.94	<a href="http://www.ci.monmouth.or.us/vertical/Sites/%7BCE78EAE1-6CA4-4610-BDB0-A9B3B0A8BB71%7D/uploads/%7B75B91CB0-E22B-4032-A232-C3DC21796769%7D.PDF">http://www.ci.monmouth.or.us/vertical/Sites/%7BCE78EAE1-6CA4-4610-BDB0-A9B3B0A8BB71%7D/uploads/%7B75B91CB0-E22B-4032-A232-C3DC21796769%7D.PDF</a>
Columbia REA	WA	200	0.94	<a href="http://www.columbiarea.com/programs/Res%20Rebate%20Application_updated_081001.pdf">http://www.columbiarea.com/programs/Res%20Rebate%20Application_updated_081001.pdf</a>
Inland Power & Light Company	WA	25	0.94	<a href="http://www.inlandpower.com/customer_care.php?id=177">http://www.inlandpower.com/customer_care.php?id=177</a>
Orcas Power and Light Cooperative	WA	50	0.94	<a href="http://www.opalco.com/energy-efficiency/rebates/">http://www.opalco.com/energy-efficiency/rebates/</a>
Orcas Power and Light Cooperative	WA	100	0.94	<a href="http://www.opalco.com/wp-content/uploads/2009/03/marathonrebate09.pdf">http://www.opalco.com/wp-content/uploads/2009/03/marathonrebate09.pdf</a>
Sevierville County Electric System	TN	120	0.94	<a href="http://www.electric.seviervilletn.org/special.htm">http://www.electric.seviervilletn.org/special.htm</a>
Plumas-Sierra REC	CA	150	0.94	<a href="http://www.psrec.coop/energy_rebates.php?sec=enersol&amp;pag=enerreb">http://www.psrec.coop/energy_rebates.php?sec=enersol&amp;pag=enerreb</a>
Consumers Power, Inc.	OR	100	0.94	<a href="http://www.cpi.coop/rebates/wh_electric.php">http://www.cpi.coop/rebates/wh_electric.php</a>

Utility or Agency	State	Amount 2009\$	EF	Website
Farmers Electric Cooperative	TX	100	0.94	<a href="http://www.fecelectric.com/fecinternet2005/01-MyAccount/07-Residential.asp">http://www.fecelectric.com/fecinternet2005/01-MyAccount/07-Residential.asp</a>
United Power	CO	475 <sup>b</sup>	0.94	<a href="http://www.unitedpower.com/rebate.aspx#h2o">http://www.unitedpower.com/rebate.aspx#h2o</a>
Hawaiian Electric Company, Inc.	HI	40	0.94	<a href="http://www.heco.com/portal/site/heco/menuitem.508576f78baa14340b4c0610c510b1ca/?vgnextoid=2cd95e658e0fc010VgnVCM1000008119fea9RCRD&amp;vgnextfmt=default">http://www.heco.com/portal/site/heco/menuitem.508576f78baa14340b4c0610c510b1ca/?vgnextoid=2cd95e658e0fc010VgnVCM1000008119fea9RCRD&amp;vgnextfmt=default</a>
Modern Electric Water Company	WA	75	0.94	<a href="http://www.mewco.com/PDFs/Water%20Heater.pdf">http://www.mewco.com/PDFs/Water%20Heater.pdf</a>
Orcas Power and Light Cooperative	WA	40	0.94	<a href="http://www.opalco.com/energy-efficiency/rebates/">http://www.opalco.com/energy-efficiency/rebates/</a>
Orcas Power and Light Cooperative	WA	25	0.94	<a href="http://www.opalco.com/energy-efficiency/rebates/">http://www.opalco.com/energy-efficiency/rebates/</a>
Port Angeles Public Works and Utilities	WA	50	0.94	<a href="https://www.cityofpa.us/PDFs/Conservation/2007/APPLIANCEREBATESResident.pdf">https://www.cityofpa.us/PDFs/Conservation/2007/APPLIANCEREBATESResident.pdf</a>
Eugene Water and Electric Board	OR	50	0.94	<a href="http://www.eweb.org/content.aspx/34350f11-4e37-4650-9ce3-0aa933fd6c61">http://www.eweb.org/content.aspx/34350f11-4e37-4650-9ce3-0aa933fd6c61</a>
Forest Grove Light & Power	OR	75	0.94	<a href="http://www.forestgrove-or.gov/images/stories/services/lightandpower/pdf/march2009appliancerebateform.pdf">http://www.forestgrove-or.gov/images/stories/services/lightandpower/pdf/march2009appliancerebateform.pdf</a>
Monmouth Power & Light	OR	50	0.94	<a href="http://www.ci.monmouth.or.us/vertical/Sites/%7BCE78EAE1-6CA4-4610-BDB0-A9B3B0A8BB71%7D/uploads/%7B75B91CB0-E22B-4032-A232-C3DC21796769%7D.PDF">http://www.ci.monmouth.or.us/vertical/Sites/%7BCE78EAE1-6CA4-4610-BDB0-A9B3B0A8BB71%7D/uploads/%7B75B91CB0-E22B-4032-A232-C3DC21796769%7D.PDF</a>
Port Angeles Public Works and Utilities	WA	50	0.94	<a href="https://www.cityofpa.us/PDFs/Conservation/2007/APPLIANCEREBATESResident.pdf">https://www.cityofpa.us/PDFs/Conservation/2007/APPLIANCEREBATESResident.pdf</a>
Austin Energy	TX	100	2.0	<a href="http://www.austinenergy.com/Energy%20Efficiency/Programs/Rebates/Residential/Air%20Conditioner/rebateLevels.htm">http://www.austinenergy.com/Energy%20Efficiency/Programs/Rebates/Residential/Air%20Conditioner/rebateLevels.htm</a>
Walton Electric Membership Corporation	GA	150	2.0	<a href="http://www.waltonemc.com/residential/index.php?page=rebates">http://www.waltonemc.com/residential/index.php?page=rebates</a>
Hawaiian Electric Company, Inc.	HI	175	2.0	<a href="http://www.heco.com/portal/site/heco/menuitem.20516707928314340b4c0610c510b1ca/?vgnextoid=6558f2b154da9010VgnVCM10000053011bacRCRD&amp;vgnextfmt=default">http://www.heco.com/portal/site/heco/menuitem.20516707928314340b4c0610c510b1ca/?vgnextoid=6558f2b154da9010VgnVCM10000053011bacRCRD&amp;vgnextfmt=default</a>
United Power	CO	70	Meet current standards	<a href="http://www.unitedpower.com/rebate.aspx#h2o">http://www.unitedpower.com/rebate.aspx#h2o</a>
Electric Power Board of Chattanooga	TN	50	Meet current standards	<a href="http://www01.epb.net/index.php?page=yourhome_products&amp;id=37">http://www01.epb.net/index.php?page=yourhome_products&amp;id=37</a>
Lassen Municipal Utility District	CA	150	NA	<a href="http://www.lmud.org/rebate.htm">http://www.lmud.org/rebate.htm</a>

<sup>b</sup> Outlier; not used.

Utility or Agency	State	Amount 2009\$	EF	Website
Central Alabama Electric Cooperative	AL	120 or 240	NA	<a href="http://www.caec.coop/cms/content/view/48/">http://www.caec.coop/cms/content/view/48/</a>
Central Alabama Electric Cooperative	AL	118 or 235	NA	<a href="http://www.caec.coop/cms/content/view/48/">http://www.caec.coop/cms/content/view/48/</a>
Central Alabama Electric Cooperative	AL	188 or 375	NA	<a href="http://www.caec.coop/cms/content/view/48/">http://www.caec.coop/cms/content/view/48/</a>
City of Florence Utilities	AL	50	NA	<a href="http://www.florenceutilities.com/Utilities_Departments/Electricity/Energy_Right/index.html">http://www.florenceutilities.com/Utilities_Departments/Electricity/Energy_Right/index.html</a>
Sheffield Utilities	AL	50	NA	<a href="http://www.sheffieldutilities.org/PWCusService.htm">http://www.sheffieldutilities.org/PWCusService.htm</a>
Diverse Power	GA	75	NA	<a href="http://www.diversepower.com/rebates_incentives.php">http://www.diversepower.com/rebates_incentives.php</a>
Energy Power Board	GA	50	NA	<a href="http://www01.epb.net/index.php?page=yourhome_products&amp;id=37">http://www01.epb.net/index.php?page=yourhome_products&amp;id=37</a>
Utilities District of Western Indiana REMC	IN	50	NA	<a href="http://www.udwiremc.com/inquiryhome_udi.nsf/pages/incentive-programs">http://www.udwiremc.com/inquiryhome_udi.nsf/pages/incentive-programs</a>
Pennyrile RECC	KY	50	NA	<a href="http://www.precc.com/precc/res_existing_home.htm">http://www.precc.com/precc/res_existing_home.htm</a>
Warren Rural Electric Cooperative Corporation	KY	50	NA	<a href="http://www.wrecc.com/resid.aspx">http://www.wrecc.com/resid.aspx</a>
City of Statesville Electric Utility Department	NC	150	NA	<a href="http://www.ci.statesville.nc.us/index.php/content/?cgi-bin=0&amp;session_id=c9d782b865c54ab96ef46c4b69020e34&amp;id=161">http://www.ci.statesville.nc.us/index.php/content/?cgi-bin=0&amp;session_id=c9d782b865c54ab96ef46c4b69020e34&amp;id=161</a>
Clinton Utilities Board	TN	50	NA	<a href="http://www.clintonutilities.com/Water%20Heater%20Rebate%20Application.pdf">http://www.clintonutilities.com/Water%20Heater%20Rebate%20Application.pdf</a>
Middle Tennessee Electric Membership Corporation	TN	50	NA	<a href="http://www.mtemc.com/pages.cfm/name/r08_waterheating">http://www.mtemc.com/pages.cfm/name/r08_waterheating</a>
Murfreesboro Electric Department	TN	25	NA	<a href="http://www.murfreesboroelectric.com/eright/waterheater.htm">http://www.murfreesboroelectric.com/eright/waterheater.htm</a>
Murfreesboro Electric Department	TN	50	NA	<a href="http://www.murfreesboroelectric.com/eright/waterheater.htm">http://www.murfreesboroelectric.com/eright/waterheater.htm</a>
Murfreesboro Electric Department	TN	25	NA	<a href="http://www.murfreesboroelectric.com/eright/waterheater.htm">http://www.murfreesboroelectric.com/eright/waterheater.htm</a>
Sevierville County Electric System	TN	100	NA	<a href="http://www.electric.seviervilletn.org/PEnergyRight.htm">http://www.electric.seviervilletn.org/PEnergyRight.htm</a>
Southwest Tennessee Electric Membership Corporation	TN	100	NA	<a href="http://www.stemc.com/FORMS/waterheater.pdf">http://www.stemc.com/FORMS/waterheater.pdf</a>
Upper Cumberland Electric Membership Corporation	TN	100	NA	<a href="http://www.ucemc.com/pdf%20files/WATER%20HEATER%20REBATE.pdf">http://www.ucemc.com/pdf%20files/WATER%20HEATER%20REBATE.pdf</a>
Volunteer Energy Cooperative	TN	20	NA	<a href="http://www.vec.org/article.aspx?categID=6&amp;articleID=791">http://www.vec.org/article.aspx?categID=6&amp;articleID=791</a>
Winchester Utilities	TN	100	NA	<a href="http://www.winchesterutilities.com/Services_files/Energy%20Right%20Program_files/image006.PDF">http://www.winchesterutilities.com/Services_files/Energy%20Right%20Program_files/image006.PDF</a>



Utility or Agency	State	Amount 2009\$	EF	Website
Carbon Power & Light, Inc.	WY	50 ( + 1.50/ gallon)	NA	<a href="http://www.carbonpower.com/rebates.htm">http://www.carbonpower.com/rebates.htm</a>
Kirkwood Electric	MO	100	NA	<a href="http://www.ci.kirkwood.mo.us/electric/rebateprogram.htm">http://www.ci.kirkwood.mo.us/electric/rebateprogram.htm</a>
Cowlitz County Public Utility District	WA	25	NA	<a href="http://www.cowlitzpud.org/pdf/EnergySharePlusBrochure.pdf">http://www.cowlitzpud.org/pdf/EnergySharePlusBrochure.pdf</a>
City Water, Light and Power	IL	200	NA	<a href="http://www.cwlp.com/energy_services/ESO_services_programs/water_heater_reb.htm">http://www.cwlp.com/energy_services/ESO_services_programs/water_heater_reb.htm</a>
<b>Average Rebate Amount for EF=0.95, 2009\$</b>		<b>97</b>		
<b>Average Rebate Amount for EF=2.0, 2009\$</b>		<b>141</b>		

NA = Not available

Websites were accessed most recently from March through June 2009.

#### 15-A.4.3 Rebates for Gas Space Heaters

DOE found five organizations (gas utilities and municipal and state agencies) that have rebate programs for gas space heaters. DOE used those amounts in the regulatory impact analysis to represent rebate amounts for gas wall fan direct heating equipment. The organizations offer rebates for natural gas or propane space heaters. Table 15-A.4.3 lists the organizations' names, states, efficiency levels, rebate amounts, and program websites. The average rebate amount is a simple average of the individual amounts (rather than being population-weighted).

**Table 15-A.4.3 Rebates for Gas Space Heaters**

Utility or Agency	State	AFUE %	Amount 2009\$	Website
Avista Utilities	OR	80	150	<a href="http://www.avistautilities.com/savings/rebates/Documents/EquipmentRebate04_09.pdf">http://www.avistautilities.com/savings/rebates/Documents/EquipmentRebate04_09.pdf</a>
Town of Smyrna	TN	NA	50	<a href="http://www.townofsmyrna.org/utilities/pdf/Natural-Gas-System%20-Rebates.pdf">http://www.townofsmyrna.org/utilities/pdf/Natural-Gas-System%20-Rebates.pdf</a>
Georgia Cities Gas (Thomasville)	GA	NA	50	<a href="http://georgiacitiesnaturalgas.com/cms/Contact+Your+Provider/5.html">http://georgiacitiesnaturalgas.com/cms/Contact+Your+Provider/5.html</a>
Blue Star Gas	OR	NA	100	<a href="http://bluestargas.com/rebate.html">http://bluestargas.com/rebate.html</a>
Railroad Commission of Texas, Alternative Fuel Research Education Division (AFRED)	TX	NA	100	<a href="http://www.directpropaneservices.com/faqs/">http://www.directpropaneservices.com/faqs/</a> ; <a href="http://www.propane.tx.gov/rebate_program/consumer.php">http://www.propane.tx.gov/rebate_program/consumer.php</a>
<b>Average Rebate Amount 2009\$</b>			89	

NA = Not applicable/available.

Websites were accessed most recently in June 2009.

#### 15-A.4.4 Rebates for Hearth Products

DOE found six organizations (gas utilities and municipal and state agencies) that have rebate programs for hearth products. The organizations offer rebates for natural gas or propane logs. Table 15-A.4.4 lists the organizations' names, states, efficiency levels, rebate amounts, and program websites. The average rebate amount is a simple average of the individual amounts (rather than being population-weighted).

**Table 15-A.4.4 Rebates for Hearth Products**

Utility or Agency	State	AFUE %	Amount 2009\$	Website
Cascade Natural Gas	WA	80	70	<a href="http://www.sullivanheating.com/Rebate_Programs.phtml">http://www.sullivanheating.com/Rebate_Programs.phtml</a>
City of Tallahassee	FL	NA	50	<a href="http://www.talgov.com/you/gas/gas_rebates.cfm">http://www.talgov.com/you/gas/gas_rebates.cfm</a>
Town of Smyrna	TN	NA	50	<a href="http://www.townofsmyrna.org/utilities/pdf/Natural-Gas-System%20-Rebates.pdf">http://www.townofsmyrna.org/utilities/pdf/Natural-Gas-System%20-Rebates.pdf</a>
Georgia Cities Gas	GA	NA	50	<a href="http://georgiacitiesnaturalgas.com/cms/Contact+Your+Provider/5.html">http://georgiacitiesnaturalgas.com/cms/Contact+Your+Provider/5.html</a>
Blue Star Gas	OR	NA	100	<a href="http://bluestargas.com/rebate.html">http://bluestargas.com/rebate.html</a>
Railroad Commission of Texas, Alternative Fuel Research Education Division (AFRED)	TX	NA	100	<a href="http://www.directpropaneservices.com/faqs/">http://www.directpropaneservices.com/faqs/</a> ; <a href="http://www.propane.tx.gov/rebate_program/consumer.php">http://www.propane.tx.gov/rebate_program/consumer.php</a>
<b>Average Rebate Amount 2009\$</b>			70	

NA = Not applicable/available.

Websites were accessed most recently in June 2009.

#### 15-A.4.5 Rebates for Gas-Fired Pool Heaters

DOE found five organizations (gas utilities and municipal agencies) that have rebate programs for gas-fired pool heaters. Table 15-A.4.5 lists the organizations' names, states, rebate amounts, and program websites. The average rebate amount is a simple average of the individual amounts (rather than being population-weighted).

**Table 15-A.4.5 Rebates for Gas-Fired Pool Heaters**

Utility or Agency	State	Amount 2009\$	Website
Metropolitan Utilities District	NE	100	<a href="http://www.livegreenthinkblue.com/rebate_forms/forms/pool.heat.rebate.pdf">http://www.livegreenthinkblue.com/rebate_forms/forms/pool.heat.rebate.pdf</a>
KeySpan Energy Delivery	NY	100	<a href="http://www.bnl.gov/bera/linkable_files/poolheateroffer7.14.04.pdf">http://www.bnl.gov/bera/linkable_files/poolheateroffer7.14.04.pdf</a>
City of Tallahassee	FL	450	<a href="http://www.talgov.com/you/gas/gas_rebates.cfm">http://www.talgov.com/you/gas/gas_rebates.cfm</a>
Town of Smyrna	TN	100	<a href="http://www.townofsmyrna.org/utilities/pdf/Natural-Gas-System%20-Rebates.pdf">http://www.townofsmyrna.org/utilities/pdf/Natural-Gas-System%20-Rebates.pdf</a>
NSTAR	MA	250	<a href="http://www.nstar.com/nstaronline3_search/">http://www.nstar.com/nstaronline3_search/</a>
<b>Average Rebate Amount 2009\$</b>		200	

Websites were accessed most recently in June 2009.

## **15-A.5 FEDERAL AND STATE TAX CREDITS**

This section summarizes the Federal and State tax credits available to consumers who purchase energy efficient appliances. This section also describes tax credits available to manufacturers who produce certain energy efficient appliances.

### **15-A.5.1 Federal Tax Credits for Residential Appliances**

EPACT 2005 included Federal tax credits for consumers who installed efficient air conditioners or heat pumps; gas or oil furnaces; furnace fans; and/or gas, oil, or electric heat pump water heaters in new or existing homes.<sup>6, 7</sup> Those tax credits were in effect in 2006 and 2007, expired in 2008, and were reinstated for 2009–2010 by ARRA.<sup>8</sup>

Residential appliances must meet the following specifications, as applicable, to qualify for Federal tax credits.<sup>6</sup>

- Furnaces and boilers: Natural gas and propane furnaces must provide an Annual Fuel Utilization Efficiency (AFUE) of 95 or higher; oil furnaces and gas, oil, and propane boilers must provide an AFUE of 90 or higher.
- Central air conditioning units and air-source heat pumps must meet the highest tier (III) standards set by the Consortium for Energy Efficiency as of January 1, 2009. Table 15-A.5.1 below shows the requirements for those equipment types.<sup>9</sup>
- Fans for heating and cooling systems may consume no more than 2 percent of total heating system energy, as defined by the DOE test procedure (may be revised because of the 2009 Federal stimulus legislation).
- Water heaters
  - Gas- or propane-fired water heaters: EF of at least 0.82 or a thermal efficiency of at least 90 percent.
  - Heat pump water heaters: EF of at least 2.0.

**Table 15-A.5.1 Federal Tax Credits for Residential Central Air Conditioners and Heat Pumps**

<b>Product</b>	<b>EER* Required</b>	<b>SEER† Required</b>	<b>HSPF‡ Required</b>	<b>Available Tax Credit</b>
Central Air Conditioner–Split System	≥ 13.0	≥16.0	N/A	30% of cost, up to \$1,500
Central Air Conditioner–Single Package	≥12.0	≥ 14.0	N/A	30% of cost, up to \$1,500
Air Source Heat Pump–Split System	≥ 12.5	≥15.0	≥ 8.5	30% of cost, up to \$1,500
Air Source Heat Pump–Single Package	≥ 12.0	≥14.0	≥8.0	30% of cost, up to \$1,500

\* EER = energy efficiency rating.

† SEER = seasonal energy efficiency rating.

‡ HSPF = heating season performance factor.

## 15-A.5.2 Federal Tax Credits for Manufacturers

EPACT 2005 provided Federal Energy Efficient Appliance Credits to manufacturers that produced high-efficiency refrigerators, clothes washers, and dishwashers in 2006 and 2007. The Emergency Economic Stabilization Act of 2008<sup>10, 11</sup> amended the credits and extended them through 2010. Manufacturers receive the credits for increasing their production of qualifying appliances relative to a two-year rolling baseline. Each manufacturer is limited to a certain amount for all credits. Manufacturers are eligible for Energy Efficient Appliance Credits for qualifying models of residential and commercial clothes washers, residential refrigerators, and residential dishwashers. The credits listed below are available for models produced in 2008, 2009, and 2010. These credit amounts and criteria apply to manufacturers who produce these appliances.<sup>12</sup> The amounts listed are for each unit manufactured. However, the maximum credit that a manufacturer can receive for qualifying equipment is \$75 million for 2008–2010, with the exceptions that the most efficient refrigerator (30 percent) and clothes washer (2.2 MEF/4.5 wcf) models are not subject to the cap.

### Clothes Washers

- \$75 for residential top-loading models manufactured in 2008 that meet/exceed a 1.72 modified energy factor (MEF) and do not exceed a 8.0 water consumption factor (wcf).
- \$125 for residential top-loading models manufactured in 2008 or 2009 that meet/exceed a 1.8 MEF and do not exceed a 7.5 wcf.
- \$150 for residential or commercial clothes washers manufactured in 2008, 2009, or 2010 that meet/exceed a 2.0 MEF and do not exceed a 6.0 wcf.
- \$250 each for residential or commercial models manufactured in 2008, 2009, or 2010 that meet/exceed a 2.2 MEF and do not exceed a 4.5 wcf.

## Refrigerators

- \$50 for models manufactured in 2008 that consume at least 20 percent but not more than 22.9 percent fewer kilowatt hours per year than the 2001 energy conservation standards.
- \$75 for models manufactured in 2008 or 2009 that consume at least 23 percent but no more than 24.9 percent fewer kilowatt hours per year than the 2001 energy conservation standards.
- \$100 for models manufactured in 2008, 2009, or 2010 that consume at least 25 percent but not more than 29.9 percent fewer kilowatt hours per year than the 2001 energy conservation standards.
- \$200 for models manufactured in 2008, 2009, or 2010 that consume at least 30 percent less energy than the 2001 energy conservation standards.

## Dishwashers

- \$45 for models manufactured in 2008 or 2009 that consume no more than 324 kilowatt hours per year and 5.8 gallons of water per cycle.
- \$ 75 for models manufactured in 2008, 2009, or 2010 that consume no more than 307 kilowatt hours per year and 5.0 gallons of water per cycle (5.5 gallons per cycle for models designed for more than 12 place settings).

### 15-A.5.3 State Tax Credits

Oregon's Residential Energy Tax Credit (RETC) was created in 1977. After the Oregon legislature expanded the RETC program in 1997 to include residential refrigerators, clothes washers, and dishwashers, participation in the program increased significantly. The program subsequently added credits for high-efficiency heat pump systems, air conditioners, and water heaters (2001); furnaces and boilers (2002); and duct/air sealing, fuel cells, heat recovery, and renewable energy equipment. For heating, ventilating, and air conditioning equipment; residential appliances; and water heaters, the credit is \$0.40 per kilowatt saved in the first year, or 25 percent of the net purchase price, whichever is less. The credit limit for energy efficient appliances and heating and cooling systems is \$1,000 per calendar year; excess credit may be carried forward for 5 years.<sup>13</sup>

Montana has had an Energy Conservation Tax Credit for residential measures since 1998.<sup>14, 15</sup> The tax credit covers various residential energy and water efficient products, including ENERGY STAR heating/cooling equipment, water heaters, low-flow showerheads and faucets, and light fixtures and controls. In 2002 the amount of the credit was increased from 5 percent of product costs (up to \$150) to 25 percent (up to \$500) per taxpayer. The credit can be used for products installed in new construction or remodeling projects. The tax credit covers only that part of the cost and materials that exceed established standards of construction.

Beginning in 2009 Indiana offers a tax credit to individuals and small businesses for costs associated with purchasing ENERGY STAR-qualified central air conditioners, room air

conditioners, furnaces, programmable thermostats, and water heaters. The credit may be claimed against state income tax, insurance premium tax, or financial institutions tax. The amount of the credit is 20 percent of the expenditure for qualified heating and cooling equipment, to a maximum of \$100 per taxable year. The credit applies to expenditures made in 2009 and 2010; there is no carryover.<sup>16, 17</sup>

Beginning in 2009 Kentucky offers a 30 percent state income tax credit for taxpayers who install certain energy efficiency measures in their principal residence or residential rental property. The qualifying products include water heaters, heat pumps, central air conditioners, and advanced main air circulating fans. A product must meet the same energy efficiency guidelines as specified for the Federal tax credit for that residential product. The tax credit may not exceed \$250. The credit, which applies to products purchased in taxable years 2009–2015, may be carried forward for 1 year.<sup>18, 19</sup>

## REFERENCES

1. Hall, B. H. and B. Khan, Adoption of New Technology. *Working Paper No. E03-330*, 2003. Department of Economics, University of California, Berkeley, CA.
2. Lekvall, P and C. Wahlbin, "A Study of Some Assumptions Underlying Innovation Diffusion Functions". *Swedish Journal of Economics*, 1973
3. Geroski, P. A., Models of Technology Diffusion. *Research Policy*, 2000. 29: pp. 603-625
4. Van den Bulte, C., "Want to Know How Diffusion Speed Varies Across Countries and Products? Try a Bass Model". *Product Development & Management Association*, 2002. XXVI(4)
5. Rufo, M., *Personal communication. Telephone conversations with Barbara Atkinson, LBNL. Itron, Inc. Oakland, CA. January 2008 and March 2009.*
6. Tax Incentives Assistance Project, *Consumer Tax Incentives: Home Heating & Cooling Equipment.*, 2009. (Last accessed October 12, 2009.)  
<[www.energytaxincentives.org/consumers/heating-cooling.php](http://www.energytaxincentives.org/consumers/heating-cooling.php)>
7. Energy Policy Act of 2005, *119 STAT. 594 Public Law 109–58. Section 1333, 26 USC 25C note*, August 8, 2005. <[http://frwebgate3.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=109\\_cong\\_public\\_laws&docid=f:publ058.109.pdf](http://frwebgate3.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=109_cong_public_laws&docid=f:publ058.109.pdf)>
8. Tax Incentives Assistance Project, *General Information: Legislative Language & Pending Updates*, 2009. (Last accessed October 12, 2009.)  
<<http://energytaxincentives.org/general/legislative.php>>
9. Consortium for Energy Efficiency (CEE), *CEE High-Efficiency Specification: Central Air Conditioners and Air Source Heat Pumps*, (Last accessed July 14, 2009.)  
<[http://www.cee1.org/resid/rs-ac/res-ac\\_specs.pdf](http://www.cee1.org/resid/rs-ac/res-ac_specs.pdf)>
10. U.S. Department of the Treasury–Internal Revenue Service, *Form 8909*, (Last accessed July 10, 2009.) <[www.irs.gov/pub/irs-pdf/f8909.pdf](http://www.irs.gov/pub/irs-pdf/f8909.pdf)>
11. *Emergency Economic Stabilization Act of 2008*, (Last accessed July 12, 2009.)  
<[http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=110\\_cong\\_bills&docid=f:h1424enr.txt.pdf](http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=110_cong_bills&docid=f:h1424enr.txt.pdf)>
12. Tax Incentives Assistance Project, *Builders & Manufacturer Incentives*, (Last accessed July 14, 2009.) <<http://energytaxincentives.org/builders/appliances.php>>



13. Oregon Department of Energy–Conservation Division, *Residential Energy Tax Credits*, (Last accessed July 8, 2009.) <<http://egov.oregon.gov/ENERGY/CONS/RES/RETC.shtml>>
14. Montana Department of Environmental Quality, *Tax Incentives*, (Last accessed July 8, 2009.) <[www.deq.state.mt.us/Energy/EEHome/TaxIncentHome.asp](http://www.deq.state.mt.us/Energy/EEHome/TaxIncentHome.asp)>
15. Montana Department of Revenue, *Energy Related Tax Relief*, (Last accessed July 8, 2009.) <<http://mt.gov/REVENUE/energyconservation.asp>>
16. Indiana Department of Revenue, *Information Bulletin #100: Income Tax, 2007*. (Last accessed July 8, 2009.) <[www.in.gov/dor/files/ib100.pdf](http://www.in.gov/dor/files/ib100.pdf)>
17. Database of State Incentives for Renewables and Efficiency (DSIRE), *Indiana Incentives for Energy Efficiency, Energy Efficiency Tax Credits (Personal)*, (Last accessed July 8, 2009.) <[www.dsireusa.org/library/includes/incentive2.cfm?Incentive\\_Code=IN50F&state=IN&CurrentPageID=1&RE=0&EE=1](http://www.dsireusa.org/library/includes/incentive2.cfm?Incentive_Code=IN50F&state=IN&CurrentPageID=1&RE=0&EE=1)>
18. Kentucky Department of Revenue, *2009 Energy Efficiency Credits*, (Last accessed July 8, 2009.) <<http://revenue.ky.gov/NR/rdonlyres/E2DAFC0B-4F18-4D76-91F8-C6766A3843EE/0/2009EnergyEfficiencyCredits.pdf>>
19. DSIRE, *Personal Income Tax Incentive: Kentucky, Energy Efficiency Tax Credits (Personal)*, (Last accessed July 8, 2009.) <[www.dsireusa.org/incentives/incentive.cfm?Incentive\\_Code=KY29F&re=0&ee=1](http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=KY29F&re=0&ee=1)>