

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

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

### **15-A.1 MARKET SHARE ANNUAL INCREASES FOR REBATES, TAX CREDIT, AND VOLUNTARY EFFICIENCY TARGETS POLICIES**

For the consumer rebates policy, Table 15-A.1.1 shows the annual increases in market shares for gas-fired and electric storage water heaters meeting target efficiency levels.

**Table 15-A.1.1 Annual Increases in Market Shares Attributable to a Rebate Policy for Water Heaters**

| <b>Year<br/>of Program</b> | <b>Gas-Fired<br/>Storage Water<br/>Heaters %</b> | <b>Electric<br/>Storage Water<br/>Heaters %</b> |
|----------------------------|--|---|
| 2015                       | 32.7   | 39.9  |
| 2016                       | 32.5   | 39.5  |
| 2017                       | 32.3   | 39.1  |
| 2018                       | 32.2   | 38.6  |
| 2019                       | 32.0   | 38.2  |
| 2020                       | 31.9   | 37.8  |
| 2021                       | 31.7   | 37.3  |
| 2022                       | 31.6   | 36.9  |
| 2023                       | 31.4   | 36.5  |
| 2024                       | 31.3   | 36.0  |
| 2025                       | 31.1   | 35.6  |
| 2026                       | 30.9   | 35.2  |
| 2027                       | 30.8   | 34.7  |
| 2028                       | 30.6   | 34.3  |
| 2029                       | 30.5   | 33.9  |
| 2030                       | 30.3   | 33.4  |
| 2031                       | 30.2   | 33.0  |
| 2032                       | 30.0   | 32.6  |
| 2033                       | 29.9   | 32.1  |
| 2034                       | 29.7   | 31.7  |
| 2035                       | 29.5   | 31.3  |
| 2036                       | 29.4   | 30.8  |
| 2037                       | 29.2   | 30.4  |
| 2038                       | 29.1   | 30.0  |
| 2039                       | 28.9   | 29.5  |
| 2040                       | 28.8   | 29.1  |
| 2041                       | 28.6   | 28.7  |
| 2042                       | 28.5   | 28.2  |
| 2043                       | 28.3   | 27.8  |
| 2044                       | 28.1   | 27.4  |

For the consumer tax credits policy, Table 15-A.1.2 shows the annual increases in market shares for both gas-fired and electric storage water heaters that meet target efficiency levels.

**Table 15-A.1.2 Annual Increases in Market Shares Attributable to Consumer Tax Credits for Gas-Fired and Electric Storage Water Heaters**

| <b>Year<br/>of Program</b> | <b>Gas-<br/>Fired<br/>Storage Water<br/>Heaters %</b> | <b>Electric<br/>Storage Water<br/>Heaters %</b> |
|----------------------------|---|---|
| 2015                       | 19.6  | 24.0  |
| 2016                       | 19.5  | 23.7  |
| 2017                       | 19.4  | 23.4  |
| 2018                       | 19.3  | 23.2  |
| 2019                       | 19.2  | 22.9  |
| 2020                       | 19.1  | 22.7  |
| 2021                       | 19.0  | 22.4  |
| 2022                       | 18.9  | 22.1  |
| 2023                       | 18.8  | 21.9  |
| 2024                       | 18.8  | 21.6  |
| 2025                       | 18.7  | 21.4  |
| 2026                       | 18.6  | 21.1  |
| 2027                       | 18.5  | 20.8  |
| 2028                       | 18.4  | 20.6  |
| 2029                       | 18.3  | 20.3  |
| 2030                       | 18.2  | 20.1  |
| 2031                       | 18.1  | 19.8  |
| 2032                       | 18.0  | 19.5  |
| 2033                       | 17.9  | 19.3  |
| 2034                       | 17.8  | 19.0  |
| 2035                       | 17.7  | 18.8  |
| 2036                       | 17.6  | 18.5  |
| 2037                       | 17.5  | 18.2  |
| 2038                       | 17.4  | 18.0  |
| 2039                       | 17.4  | 17.7  |
| 2040                       | 17.3  | 17.5  |
| 2041                       | 17.2  | 17.2  |
| 2042                       | 17.1  | 16.9  |
| 2043                       | 17.0  | 16.7  |
| 2044                       | 16.9  | 16.4  |

For the manufacturer tax credits policy, Table 15-A.1.3 shows the annual increases in market shares for both gas-fired and electric storage water heater that meet target efficiency levels.

**Table 15-A.1.3 Annual Increases in Market Shares Attributable to Manufacturer Tax Credits for Gas-Fired and Electric Storage Water Heaters**

| <b>Year<br/>of Program</b> | <b>Gas-<br/>Fired<br/>Storage<br/>Water<br/>Heaters <u>%</u></b> | <b>Electric<br/>Storage Water<br/>Heaters <u>%</u></b> |
|----------------------------|--|--|
| 2015                       | 9.8  | 12.0   |
| 2016                       | 9.7  | 11.8   |
| 2017                       | 9.7  | 11.7   |
| 2018                       | 9.7  | 11.6   |
| 2019                       | 9.6  | 11.5   |
| 2020                       | 9.6  | 11.3   |
| 2021                       | 9.5  | 11.2   |
| 2022                       | 9.5  | 11.1   |
| 2023                       | 9.4  | 10.9   |
| 2024                       | 9.4  | 10.8   |
| 2025                       | 9.3  | 10.7   |
| 2026                       | 9.3  | 10.5   |
| 2027                       | 9.2  | 10.4   |
| 2028                       | 9.2  | 10.3   |
| 2029                       | 9.1  | 10.2   |
| 2030                       | 9.1  | 10.0   |
| 2031                       | 9.0  | 9.9  |
| 2032                       | 9.0  | 9.8  |
| 2033                       | 9.0  | 9.6  |
| 2034                       | 8.9  | 9.5  |
| 2035                       | 8.9  | 9.4  |
| 2036                       | 8.8  | 9.2  |
| 2037                       | 8.8  | 9.1  |
| 2038                       | 8.7  | 9.0  |
| 2039                       | 8.7  | 8.9  |
| 2040                       | 8.6  | 8.7  |
| 2041                       | 8.6  | 8.6  |
| 2042                       | 8.5  | 8.5  |
| 2043                       | 8.5  | 8.3  |
| 2044                       | 8.4  | 8.2  |

Table 15-A.1.4 shows the annual increases in market shares for both gas-fired and electric storage water heater that meet target efficiency levels for the voluntary efficiency targets policy.

**Table 15-A.1.4 Annual Increases in Market Shares Attributable to a Voluntary Energy Efficiency Targets Policy for Heating Products**

| <b>Year</b> | <b>Gas-Fired<br/>Storage<br/>Water<br/>Heaters %</b> | <b>Electric<br/>Storage Water<br/>Heaters %</b> | <b>Year</b> | <b>Gas Wall<br/>Fan DHE<br/>%</b> | <b>Hearth<br/>DHE %</b> | <b>Pool<br/>Heaters %</b> |
|-------------|--|---|-------------|-----------------------------------|-------------------------|---------------------------|
| 2015        | 6.9  | 0.3   | 2013        | 0.5                               | 2.0                     | 0.8                       |
| 2016        | 6.9  | 2.9   | 2014        | 0.8                               | 3.1                     | 1.3                       |
| 2017        | 7.3  | 5.0   | 2015        | 1.1                               | 4.1                     | 1.8                       |
| 2018        | 7.3  | 5.5   | 2016        | 1.4                               | 5.1                     | 2.2                       |
| 2019        | 8.1  | 7.0   | 2017        | 1.4                               | 5.1                     | 2.2                       |
| 2020        | 7.7  | 7.4   | 2018        | 1.4                               | 5.1                     | 2.2                       |
| 2021        | 7.7  | 7.8   | 2019        | 1.5                               | 5.6                     | 2.4                       |
| 2022        | 7.6  | 7.8   | 2020        | 1.6                               | 6.1                     | 2.6                       |
| 2023        | 7.6  | 8.2   | 2021        | 1.8                               | 6.7                     | 2.8                       |
| 2024        | 7.5  | 8.3   | 2022        | 2.0                               | 7.3                     | 3.1                       |
| 2025        | 7.5  | 9.5   | 2023        | 2.1                               | 8.0                     | 3.4                       |
| 2026        | 7.4  | 9.1   | 2024        | 2.3                               | 8.8                     | 3.7                       |
| 2027        | 7.4  | 9.2   | 2025        | 2.6                               | 9.6                     | 4.1                       |
| 2028        | 7.3  | 9.2   | 2026        | 2.8                               | 10.5                    | 4.5                       |
| 2029        | 7.2  | 9.2   | 2027        | 3.1                               | 11.5                    | 4.9                       |
| 2030        | 7.2  | 9.1   | 2028        | 3.4                               | 12.6                    | 5.3                       |
| 2031        | 7.1  | 9.1   | 2029        | 3.4                               | 12.6                    | 5.4                       |
| 2032        | 7.0  | 9.1   | 2030        | 3.4                               | 12.7                    | 5.4                       |
| 2033        | 7.0  | 9.1   | 2031        | 3.4                               | 12.8                    | 5.4                       |
| 2034        | 6.9  | 9.1   | 2032        | 3.4                               | 12.8                    | 5.4                       |
| 2035        | 6.9  | 9.1   | 2033        | 3.5                               | 12.9                    | 5.5                       |
| 2036        | 6.8  | 9.1   | 2034        | 3.5                               | 13.0                    | 5.5                       |
| 2037        | 6.7  | 9.1   | 2035        | 3.5                               | 13.0                    | 5.5                       |
| 2038        | 6.7  | 9.1   | 2036        | 3.5                               | 13.1                    | 5.5                       |
| 2039        | 6.7  | 9.0   | 2037        | 3.5                               | 13.1                    | 5.6                       |
| 2040        | 6.8  | 9.0   | 2038        | 3.5                               | 13.2                    | 5.6                       |
| 2041        | 6.9  | 9.0   | 2039        | 3.6                               | 13.3                    | 5.6                       |
| 2042        | 6.9  | 9.0   | 2040        | 3.6                               | 13.3                    | 5.7                       |
| 2043        | 7.0  | 9.0   | 2041        | 3.6                               | 13.4                    | 5.7                       |
| 2044        | 7.1  | 9.0   | 2042        | 3.6                               | 13.5                    | 5.7                       |

**Table 15-A.1.5 Annual Increases in Market Shares Attributable to Bulk Government Purchases for Gas-Fired and Electric Storage Water Heaters**

| <b>Year<br/>of Program</b> | <b>Gas-<br/>Fired<br/>Storage<br/>Water<br/>Heaters <u>%</u></b> | <b>Electric<br/>Storage Water<br/>Heaters <u>%</u></b> |
|----------------------------|--|--|
| 2015                       | 0.03   | 0.02   |
| 2016                       | 0.07   | 0.04   |
| 2017                       | 0.10   | 0.05   |
| 2018                       | 0.14   | 0.07   |
| 2019                       | 0.17   | 0.09   |
| 2020                       | 0.20   | 0.11   |
| 2021                       | 0.24   | 0.13   |
| 2022                       | 0.27   | 0.14   |
| 2023                       | 0.30   | 0.16   |
| 2024                       | 0.34   | 0.18   |
| 2025                       | 0.34   | 0.18   |
| 2026                       | 0.34   | 0.18   |
| 2027                       | 0.34   | 0.18   |
| 2028                       | 0.34   | 0.18   |
| 2029                       | 0.34   | 0.18   |
| 2030                       | 0.34   | 0.18   |
| 2031                       | 0.34   | 0.18   |
| 2032                       | 0.34   | 0.18   |
| 2033                       | 0.34   | 0.18   |
| 2034                       | 0.34   | 0.18   |
| 2035                       | 0.34   | 0.18   |
| 2036                       | 0.34   | 0.18   |
| 2037                       | 0.34   | 0.18   |
| 2038                       | 0.34   | 0.18   |
| 2039                       | 0.34   | 0.18   |
| 2040                       | 0.34   | 0.18   |
| 2041                       | 0.34   | 0.18   |
| 2042                       | 0.34   | 0.18   |
| 2043                       | 0.34   | 0.18   |
| 2044                       | 0.34   | 0.18   |

## 15-A.2 BACKGROUND ON XENERGY PENETRATION CURVES

### 15-A.2.1 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>Error! Bookmark not defined.</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>

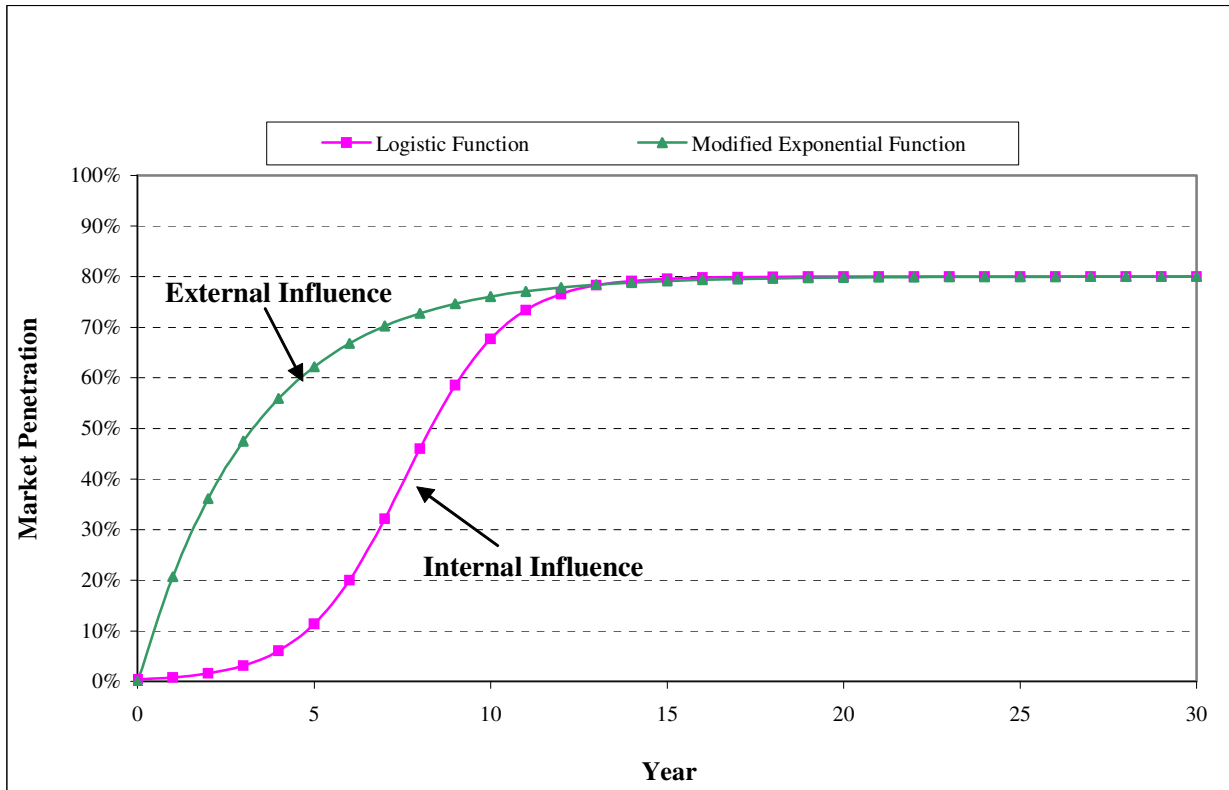
The relative degree of influence from the internal and external sources determines the general shape of the diffusion curve for a specific product.<sup>5, 6</sup> If adoption of a product is influenced primarily by external sources of information (the announcement effect), for instance, a high rate of 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

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<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.1.1). 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.1.1).



**Figure 15-A.2.1 S-Curves Showing Effects of External and Internal Sources on Adoption of New Technologies**

### 15-A.2.2 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.3 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.3.1 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.3.1 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 a water heater having an energy factor (EF) of 0.62, 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.3.1 Rebates for Gas-Fired Water Heaters**

| Utility or Agency                           | State | Amount<br>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.conservationrebates.com/programs/col/_documents/Colorado%20Equipment%20Application20090225.pdf">http://www.conservationrebates.com/programs/col/_documents/Colorado%20Equipment%20Application20090225.pdf</a>                             |
| Colorado Natural Gas                        | CO    | 50               | 0.62 | <a href="http://www.conservationrebates.com/programs/col/_documents/Colorado%20Equipment%20Application20090225.pdf">http://www.conservationrebates.com/programs/col/_documents/Colorado%20Equipment%20Application20090225.pdf</a>                             |
| SourceGas                                   | CO    | 50               | 0.62 | <a href="http://www.conservationrebates.com/programs/col/_documents/Colorado%20Equipment%20Application20090225.pdf">http://www.conservationrebates.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<br>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<br>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<br>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<br>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>57</b>        |      |   |
| <b>Average Rebate Amount for EF = 0.62, 2008\$</b>                   |       | <b>56</b>        |      |   |

NA = Not applicable/available.

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

### 15-A.3.2 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.3.2 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.3.2 Rebates for Electric Water Heaters**

| Utility or Agency                             | State | Amount<br>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<br>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<br>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<br>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<br>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.theremc.com/rebates.html#anchor1">http://www.theremc.com/rebates.html#anchor1</a>   |
| Clark County REMC  | IN    | 100              | 0.90 | <a href="http://www.theremc.com/rebates.html#anchor1">http://www.theremc.com/rebates.html#anchor1</a>   |
| Clark County REMC  | IN    | 100              | 0.90 | <a href="http://www.theremc.com/rebates.html#anchor1">http://www.theremc.com/rebates.html#anchor1</a>   |

| Utility or Agency                                  | State | Amount<br>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<br>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<br>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<br>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<br>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;vgnnextfmt=default">http://www.heco.com/portal/site/heco/menuitem.508576f78baa14340b4c0610c510b1ca/?vgnextoid=2cd95e658e0fc010VgnVCM1000008119fea9RCRD&amp;vgnnextfmt=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.dougaselectric.com/programs/rebate_credits.php#water">http://www.dougaselectric.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<br>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<br>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<br>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<br>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;vgnextfmt=default">http://www.heco.com/portal/site/heco/menuitem.508576f78baa14340b4c0610c510b1ca/?vgnextoid=2cd95e658e0fc010VgnVCM1000008119fea9RCRD&amp;vgnextfmt=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/IowaIncentivePrograms/014675">http://alliantenergy.com/UtilityServices/ForYourHome/RewardsIncentives/IowaIncentivePrograms/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<br>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<br>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<br>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;vgnnextfmt=default">http://www.heco.com/portal/site/heco/menuitem.508576f78baa14340b4c0610c510b1ca/?vgnextoid=2cd95e658e0fc010VgnVCM1000008119fea9RCRD&amp;vgnnextfmt=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;vgnnextfmt=default">http://www.heco.com/portal/site/heco/menuitem.20516707928314340b4c0610c510b1ca/?vgnextoid=6558f2b154da9010VgnVCM10000053011bacRCRD&amp;vgnnextfmt=default</a> |
| United Power                            | CO    | 70               | Meet<br>current<br>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<br>current<br>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<br>2009\$ | EF | Website   |
|---|-------|------------------|----|---|
| Central Alabama Electric Cooperative                | AL    | 120<br>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<br>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<br>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<br>2009\$           | EF | Website   |
|--|-------|----------------------------|----|---|
| Carbon Power & Light, Inc.                       | WY    | 50<br>( + 1.50/<br>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=0.94, 2009\$</b> |       | <b>123</b>                 |    |   |
| <b>Average Rebate Amount for EF=0.94, 2008\$</b> |       | <b>122</b>                 |    |   |

NA = Not available

Websites were accessed most recently from March through June 2009.

### 15-A.3.3 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.3.3 lists the organizations' names, states, efficiency levels, rebate amounts, and program websites. 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.3.3 Rebates for Gas Space Heaters**

| Utility or Agency  | State | AFUE<br>% | Amount<br>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,<br>Alternative Fuel Research<br>Education Division (AFRED) | TX    | NA        | 100              | <a href="http://www.directpropaneservices.com/faqs/">http://www.directpropaneservices.com/faqs/</a> ;<br><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>  |       |           | 90               |  |
| <b>Average Rebate Amount 2008\$</b>  |       |           | 89               |  |

NA = Not applicable/available.

Websites were accessed most recently in June 2009.

#### 15-A.3.4 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.3.4 lists the organizations' names, states, efficiency levels, rebate amounts, and program websites. 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.3.4 Rebates for Hearth Products**

| Utility or Agency  | State | AFUE<br>% | Amount<br>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.townofsmyna.org/utilities/pdf/Natural-Gas-System%20-Rebates.pdf">http://www.townofsmyna.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,<br>Alternative Fuel Research<br>Education Division (AFRED) | TX    | NA        | 100              | <a href="http://www.directpropaneservices.com/faqs/">http://www.directpropaneservices.com/faqs/</a> ;<br><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               |  |
| <b>Average Rebate Amount 2008\$</b>  |       |           | 70               |  |

NA = Not applicable/available.

Websites were accessed most recently in June 2009.

### 15-A.3.5 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.3.5 lists the organizations' names, states, rebate amounts, and program websites. 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.3.5 Rebates for Gas-Fired Pool Heaters**

| <b>Utility or Agency</b>            | <b>State</b> | <b>Amount<br/>2009\$</b> | <b>Website</b>  |
|-------------------------------------|--------------|--------------------------|---|
| 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                      |   |
| <b>Average Rebate Amount 2008\$</b> |              | 199                      |   |

Websites were accessed most recently in June 2009.

## **15-A.4 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.4.1 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.4.1 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.4.1 Federal Tax Credits for Residential Central Air Conditioners and Heat Pumps**

| <b>Product</b>                         | <b>EER*<br/>Required</b> | <b>SEER<sup>†</sup><br/>Required</b> | <b>HSPF<sup>‡</sup><br/>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.4.2 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 are available for models produced in 2008, 2009, and 2010. The following credit amounts and criteria apply to manufacturers who produce these appliances.<sup>12</sup> The credit amounts listed below 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.4.3 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)>