

# Energy Efficiency News



BPA Energy Efficiency

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## Increased incentives spur appliance recycling activity

When BPA increased the utility incentive for refrigerator/freezer recycling from \$85 to \$125, they expected an increase in recycling activity. But they didn't anticipate an upswing of nearly 15 percent.

That's the increase in activity Bob Nicholas of JACO Environmental, Inc. said they've seen in appliance recycling from regional public utilities ([www.appliancerecycling.com](http://www.appliancerecycling.com)). Much of that traffic is attributable to 10 new BPA utilities who have signed up for their services. And several more Northwest utilities are in negotiations with JACO to operate an appliance recycling program in their service territories.

Keeping an old refrigerator in the garage just to keep beer or soda cold can be more expensive than you think. BPA estimates that for every old refrigerator taken off the grid there is a net impact to the utility of approximately 900 kWh. "When a residential consumer has that old refrigerator hauled away, they can expect to see an annual savings of up to \$130 on their energy bill," said Sarah F. Moore, BPA Energy Efficiency residential sector lead.

JACO, based in Everett, Wash., operates nearly 40 appliance recycling programs in 17 states. The program they offer to BPA customers is turnkey. "All a utility has to do is a little project management work and enter the savings into the Planning, Tracking and Reporting (PTR) system, and we do the rest," explained Nicholas. "And all a residential customer has to do is either call or go online to schedule a pick-up appointment, and we can usually haul away their unit in less than a week."



Old refrigerators like this one make a huge impact on residential energy use. BPA recently increased the utility incentive for refrigerator/freezer recycling from \$85 to \$125.

JACO goes into the customer's home to pick-up the old unit, and they destroy the controls and cut the cords first thing so the unit can no longer be used in the marketplace. The unit is then delivered to one of JACO's regional recycling centers where it is demanufactured, with more than 95% of the components put back into the manufacturing stream. They follow all aspects of the EPA's Responsible Appliance Disposal (RAD) program ([www.epa.gov/Ozone/partnerships/rad/](http://www.epa.gov/Ozone/partnerships/rad/)), including complying with CFC11 (foam) and CFC12 (refrigerant) disposal. Then they provide the utility with all recycling information so they can claim the credit from BPA.

"We appreciate the great work that the utilities, JACO and other appliance recyclers are doing in the region," said Moore. "Thanks to their efforts we can expect to see a decrease of approximately five tons of carbon equivalent for each unit. And that impacts all of us."

For more information about refrigerator recycling or to calculate energy savings, visit [www.energystar.gov](http://www.energystar.gov)

## DOE ups poverty levels for Federal low-income weatherization

Effective January, 2009, the Department of Energy changed poverty income guidelines and definition of income for use in the Low-Income Weatherization Assistance Program.

Low-Income, as defined for the Federal Weatherization Assistance Program, is now 200 percent of poverty income level threshold, up from 150 percent.

You can review the complete announcement at [www.waptac.org/si.asp?id=1318](http://www.waptac.org/si.asp?id=1318)

### DOE 2009 POVERTY INCOME GUIDELINES

Contiguous U.S. Grantees  
EFFECTIVE JANUARY 23, 2009

Size of Family Unit	Threshold	200%
1 .....	\$10,830	\$21,660
2 .....	14,570	29,140
3 .....	18,310	36,620
4 .....	22,050	44,100
5 .....	25,790	51,580
6 .....	29,530	59,060
7 .....	33,270	66,540
8 .....	37,010	74,020
Each additional member add .....	3,740	7,480

## Post-2011 dialogue continues

With the recent signing of the new power sales contracts and emerging issues such as climate change, BPA initiated a regional dialogue public process to discuss how the region can most effectively meet growing regional targets for energy efficiency beginning in 2012. The importance of robust energy efficiency efforts is even greater as we head into tiered rates, potential carbon legislation and increased focus on energy independence.

Phase I of this process included a regional kick-off meeting at BPA headquarters on Jan. 27. This was followed with a series of sub-regional meetings, a public comment period and a series of collaborative meetings to create a straw proposal. The straw proposal will help inform and guide BPA's draft plan that defines the agency's role in meeting public power's share of the Northwest Power and Conservation Council's Power Plan conservation target. A public review process of the draft plan will conclude Phase I.

Phase II, which is anticipated to begin later this year, will address detailed implementation questions. For more information and to access all documents please visit [www.bpa.gov/Post2011](http://www.bpa.gov/Post2011)

## BPA pursues changes in industrial energy efficiency program

BPA recently completed a review of its approach to acquiring energy efficiency in the industrial sector due to an anticipated increase in regional targets. BPA Energy Efficiency staff – in collaboration with a consulting firm– found that due to inadequate BPA staffing levels, inconsistent marketing and program delivery and other factors the current industrial program was not meeting desired targets.

A new approach was developed that includes working with a program partner to provide a variety of industrial services, including project development, marketing services and implementation of industrial sector energy-efficiency acquisition. Both BPA and the program partner will continue to work through utilities for program delivery.

It is anticipated that a new program model will be rolled out by October 1, 2009. During the next four months BPA and the program partner will develop the program offer. Utility stakeholders who would like to participate in the review process as BPA works with the program partner to develop the program are encouraged to contact Jennifer Eskil ([jleskil@bpa.gov](mailto:jleskil@bpa.gov)).

## New opportunities included in April 1 Implementation Manual

The April 1, 2009 version of the newly updated BPA Energy Efficiency Implementation Manual includes new opportunities and incentives designed to generate increased energy efficiency savings in the Northwest.

Changes that streamline administrative processes include expanded eligibility for custom projects and reduced reporting requirements. A few of the many energy efficiency changes in the residential sector include increased incentives for prime window replacement and attic insulation, as well as expanded eligibility for heat pump conversions and upgrades. Bulk purchase and direct shipment opportunities and increased incentives in residential lighting that were announced in January of this year are also incorporated.

BPA increased incentives for commercial, industrial and agricultural lighting for existing buildings an average of 48%. In the commercial sector, BPA increased incentives on more than twenty EnergySmart Grocer program measures; and in the agricultural sector the popular Scientific Irrigation Scheduling program was expanded to include smaller acreages (1,000 or less of qualified acreage).

"Feedback from utility customers has allowed us implement high-priority program enhancements," said Mike Weedall, Vice President, BPA Energy Efficiency. "We have made every effort to make energy efficiency more attractive and easier for our utility customers to implement and will continue to do so in the future."

A summary of the numerous changes that are included in this version of manual, as well as a list of other BPA Energy Efficiency enhancements made during the current rate period, is available at [www.bpa.gov/Energy/N/pdf/ContinuingInnovations\\_inBPAEEPrograms.pdf](http://www.bpa.gov/Energy/N/pdf/ContinuingInnovations_inBPAEEPrograms.pdf)

The Implementation Manual is available for download at [www.bpa.gov/Energy/N/implementation.cfm](http://www.bpa.gov/Energy/N/implementation.cfm)

In order to reduce costs and save resources, printed copies of the Implementation Manual will no longer automatically be sent to utilities.

The *BPA Energy Efficiency News* is a quarterly publication of the Bonneville Power Administration. If you have a suggestion for content or would like more information, please contact your Energy Efficiency Representative or email [eefeedback@bpa.gov](mailto:eefeedback@bpa.gov)

## 2009 Energy Efficiency Summit draws regional participants

Networking and learning new ways to reach energy efficiency goals were highlights of the BPA-sponsored 2009 Utility Energy Efficiency Summit held on March 17-18. More than 150 attendees, including representatives from 53 utilities, trade allies and other regional stakeholders, participated in the conference in Portland.

BPA Administrator Steve Wright kicked off the event, discussing the Challenge of Providing Low Rates, High Reliability & a Healthy Environment. Wright was followed by keynote speaker Mark Gabriel of R.W. Beck, who spoke about Sustainable Energy in the Twenty-first Century. Utility representatives actively participated in roundtable discussions including ramping up for higher targets, how utilities with limited staff effectively implement successful programs, and planning for I-937. Panelists discussed emerging technologies, how to gather valid data, the new Energy Conservation Agreement (ECA), Conservation Voltage Regulation (CVR), smart grid, demand response and new regional programs and projects.

The second day saw Tom Eckman of the Northwest Power and Conservation Council presenting information about the Council's Sixth Power Plan, and BPA Vice President of Energy Efficiency Mike Weedall shared highlights of recent energy efficiency activities. K.C. Golden, Climate Solutions Policy Director, provided insights into how energy efficiency can lead to a new, stronger energy economy. Panelists covered topics such as marketing strategies and building a new energy-efficiency workforce, and utilities shared success stories at a closing roundtable.

As in past years, the highlight of the event was the opportunity for attendees to network with other utility staff and regional energy efficiency stakeholders. Summit Chairperson Darroll Clark of Franklin PUD said, "This summit was a huge success, primarily due to the active participation of utility staff. The insights provided by our peers are invaluable as we strive to reach higher and higher targets." He encouraged utility staff to mark their calendars for March 16-17, 2010, the tentative dates for next year's summit.

Presentations from the Summit are available for download on the BPA Web site at [www.bpa.gov/Energy/N/Utilities\\_Sharing\\_EE/Workshop2009/utility.htm](http://www.bpa.gov/Energy/N/Utilities_Sharing_EE/Workshop2009/utility.htm)

This past year, as those of us in energy efficiency have become more innovative and developed new strategies, we have experienced Aha Moments. Here are just a few of those moments shared by 2009 Utility Summit attendees:

"We need to do a better job **educating our customers** as to what state and federal tax credits are available in order to generate more interest in conservation programs."

"It takes about four months of **active marketing** to get customers to believe your story."

"**Conservation implementation isn't static.** Just because you did a project once at a location or business doesn't mean there isn't anything left to do. New owners and different times might open doors to new projects."

"When (BPA Vice President of Energy Efficiency) Mike Weedall mentioned that the **m&v 'light' expected annual savings increased from less than 75,000 kWh per year to less than 200,000 kWh per year. That is awesome!**"

"I am truly amazed at **our customers and their participation in our energy conservation programs.** Their participation has given me a new and deeper understanding of all the need that is still out there to help folks save energy and lower utility bills. Our insulation rebate program has been a much-needed measure, and continues to amaze us of the little to no insulation in many of our customers' homes and buildings. We continue to receive high praise for offering this energy saving program."

"That we need to encourage our customers to do conservation but we also need to **encourage our utility to do conservation** as well."

"That **utility boards and/or directors could benefit from the success stories from others:** mini testimonials, letters of support, etc. BPA could be a 'clearinghouse' for that information"

"Listening to Tom Eckman's **6th Power Plan.**"

"Roundtable with Mike Rose announcing allowing **early start up credits** and the transition from one reporting period to the next."

"Received good information on doing a **ductless heat pump project** through networking with BPA staff and other utilities."

"The importance of **aligning conservation with financial objectives.**"



## EISA bans most incandescent bulbs by 2015; draft 6th Power Plan undecided about including CFLs

The Energy Independence and Security Act of 2007 (EISA) is a federal law aimed at the reduction of energy consumption,

reduced dependence on oil and strategies for addressing global climate change.

Under the EISA, manufacture of incandescent bulbs that produce 310–2600 lumens of light will be phased out between 2012 and 2014. Bulbs outside this range (typically current light bulbs of less than 40 watts or more than 150 watts) are exempt from the ban.

The phase-out of incandescent light bulbs was supported by the Alliance to Save Energy, a coalition of light bulb manufacturers, electric utilities and conservation groups. The Alliance estimates that lighting accounts for 22% of total U.S. electricity usage, and that eliminating incandescent bulbs completely would save \$18 billion per year.

This legislation provides the impetus to dramatically impact the landscape of energy efficient lighting as it goes into effect in 2012. As a corresponding impact, it is not yet clear whether the Northwest Power and Conservation Council's draft Sixth Power Plan will include general service CFLs in its draft supply curves. The Council is accepting comments to include general service CFLs until the standard takes effect in 2012, to account for a strategic and successful phase out when exiting the market. It appears that some bulbs exempted from the legislation (reflectors and some globes) are included in the current draft of the Sixth Power Plan.

It is expected the Plan will be approved by the end of 2009. You can view Tom Eckman's presentation on the draft Sixth Power Plan from the March Utility Summit at [www.bpa.gov/Energy/N/Utilities\\_Sharing\\_EE/Workshop2009/pdf/SixthPowerPlanTomEckmanNPCC.pdf](http://www.bpa.gov/Energy/N/Utilities_Sharing_EE/Workshop2009/pdf/SixthPowerPlanTomEckmanNPCC.pdf)

For more information, contact your Energy Efficiency Representative.

## Hospitality initiative available for Oregon public utilities

Thanks to an agreement between BPA and the Energy Trust of Oregon, Oregon utilities have an opportunity to participate in the Trust's Lodging and Foodservice program. The agreement extends the hospitality initiative to Oregon public utility service areas through a seamless turnkey program. This enables Oregon public utilities to enter into a service agreement with Energy Trust to use BPA funding for equipment rebates for Energy Trust's lodging and commercial kitchen measures. There is no utility administrative allowance as the Energy Trust provides all services for the hospitality initiative.

Participating Oregon public utilities will receive 75% credit toward the conservation adjustment of the utilities' Conservation High Water Mark (CHWM) calculation. Participating utilities be included in an ongoing marketing and outreach campaign in Oregon to promote energy-efficient equipment and practices in the hospitality industry.

Concurrent to the program offered to Oregon public utilities, BPA is working to broaden opportunities for all regional utilities to offer hospitality market measures to their customers. Thanks in part to BPA's research efforts, the Regional Technical Forum recently determined several specific measures to be cost effective, including ice makers, steamers and hot food holding cabinets. A BPA team is setting incentive rates and will include those measures in the Planning, Tracking and Reporting (PTR) system as soon as they are available. Stay tuned for more information on this expanding opportunity.

For more information, contact your Energy Efficiency Representative.



## BPA boosts incentives for EnergySmart Grocer program

With the economic slow-down, grocery stores are having a more difficult time justifying energy efficiency investments. In response to this market change, BPA recently increased incentives on 21 EnergySmart Grocer measures.

EnergySmart Grocer is provided to Northwest public utilities by BPA program partner PECL.

The increases bring program incentives to nearly 10 cents per kWh while increasing overall program-to-date average incentives to 8.5 cents per kWh. The increased incentives coincide with new streamlined procedures that relieve utilities of several administrative burdens.

“BPA hopes these changes will both strengthen the business case for commercial customer program participation and help us reach our regional commercial energy efficiency targets,” said Ray Hartwell, acting BPA commercial sector lead.

In addition to refrigeration equipment incentives, the

program provides business owners and facility managers with no-cost energy audits as well as information about energy efficient technology, operations and management.

Since launching in the Northwest less than two years ago EnergySmart Grocer has audited more than 1,100 stores and awarded more than \$1.5 million in incentives, for more than 21M kWh saved. PECL plans to promote the EnergySmart Grocer program through “EnergySmart \$2M Drive for Savings,” an upcoming regional marketing campaign.

More information about the new EnergySmart Grocer administrative procedures is available at [www.bpa.gov/Energy/N/esgprogram.cfm](http://www.bpa.gov/Energy/N/esgprogram.cfm). New incentives are outlined in the Planning, Tracking and Reporting (PTR) system.

For more information contact your Energy Efficiency Representative.

## NW Trade Ally Network holds hands-on lighting controls workshops

Since December 2008, the Northwest Trade Ally Network (NW TAN) has provided nearly 15 successful workshops to more than 900 trade allies, utility representatives and lighting control representatives in the Pacific Northwest. The goal of each workshop is to encourage trade allies to include more lighting controls in their commercial and industrial lighting project proposals. Lighting accounts for approximately 30% of commercial and industrial energy costs, and lighting controls help reduce customer energy use for lighting by an average of 25%.

The three-hour workshops are lead by Doug Oppedal, Lighting Specialist with the NW TAN. The workshops include a review of lighting control basics and a “hands on” lighting controls design project exercise that allows each participant to try their hand at good lighting control design. Lighting controls manufacturer representatives also participate in sessions by exhibiting displays of various controls products. Eric Strandberg from the Lighting Design Lab has also provides updates on the current “state of the art” for LED/solid-state lighting technology.

The goal of the NW TAN, sponsored by BPA, is to provide resources, tools and support for utilities and trade allies which leads to increased commercial and industrial lighting

projects. Technology training is a key ingredient, which brings trade allies and utilities together to discuss opportunities and resources to make this happen.

There are currently nearly 100 Northwest public utilities with active commercial/industrial lighting programs. In addition, there are more 340 trade allies listed on the NW TAN Web site which address customer needs in various utility service territories. To access more information on the NW TAN and events, please visit the recently updated Web site: [www.northwest-lighting.org](http://www.northwest-lighting.org)



NW TAN training workshops, like the Hands-on Lighting Controls workshop pictured above, training more than 900 regional trade allies. The 2009 -2010 training schedule is in the planning stages. Call Gwen Lusk at 888.205.5756 if you have suggested topics.

## Georgia Pacific lights up in Clatskanie

The Georgia Pacific Wauna Pulp & Paper Mill, a large industrial customer of Clatskanie PUD, has lightened up in a big way. Koch Industries, the parent company to Georgia Pacific set a corporate goal of saving money through energy efficiency in its plants across the country.

Clatskanie PUD has a long tradition of working closely with Wauna on all types of energy efficiency projects at the pulp and paper plant.

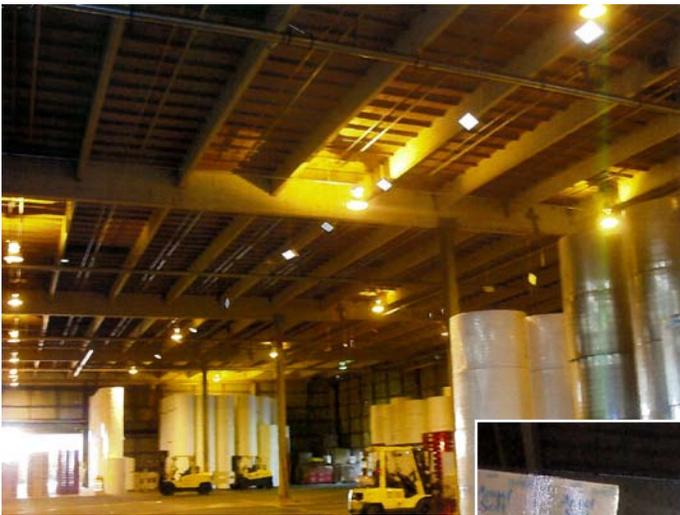
The PUD staff – Power Manager Joe Taffe and conservation staffers Paul Skarra and Ken Patterson – began working with the mill and BPA more than a year ago to plan a new industrial lighting project. Georgia Pacific worked closely with

general contractor National Energy Services, Inc. (NES) and manufacturer Cooper Lighting and NES to get the project installed.

The result has been new lighting controls and the replacement of 2,852 fixtures, including 1,981 400-Watt metal halide fixtures, to the more energy-efficient six-lamp T8 fluorescent fixture. The project has produced savings of approximately five million kWh, which is enough to power approximately 350 of homes in the City of Clatskanie. The plant lighting load was reduced by half through this project alone. The initial project included re-lamping 12 buildings, and plant management was so pleased with the improvement that the second phase planning began before the first phase was completed.

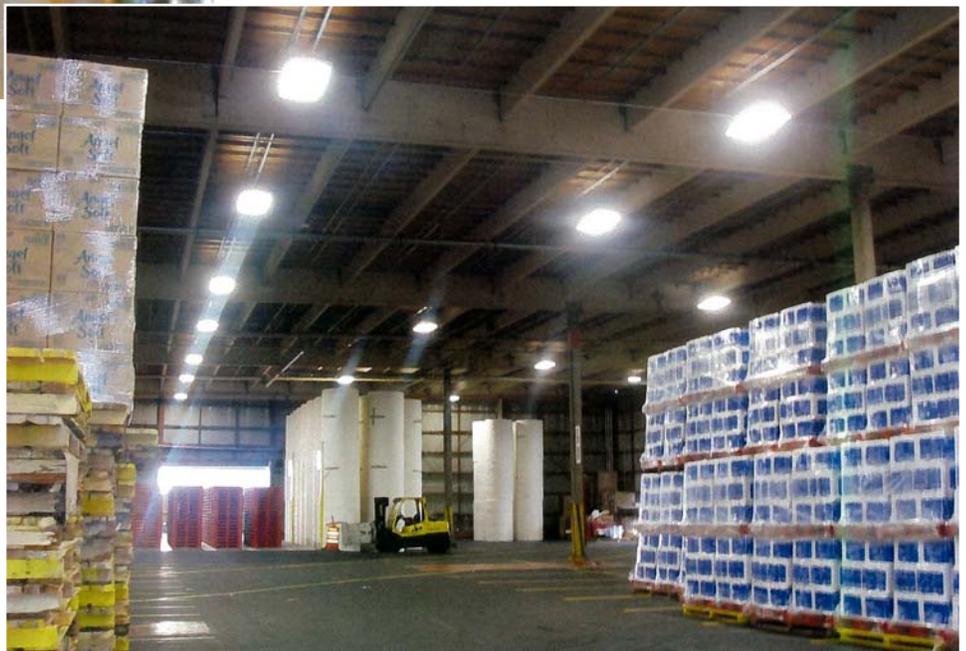
This cooperative effort between a large industrial customer, their parent company, lighting contractors, the PUD and BPA sets an example for other industrial energy-efficiency efforts within the Clatskanie PUD service territory and throughout the Pacific Northwest. If you would like to find out more about this project please contact Joe Taffe, Clatskanie PUD power manager at (503) 728-2163.

Contact your Energy Efficiency Representative if you would like to learn more about lighting audit services at your utility's industrial facilities.



### **What a difference lighting makes.**

Clatskanie PUD worked with the Georgia Pacific Wauna Pulp & Paper Mill to add lighting controls and replace 2,852 fixtures, including 1,981 400-Watt metal halide fixtures (above), to the more energy-efficient six-lamp T8 fluorescent fixture (right). Efficient lighting can not only provide 25-50% savings on energy bills, but frequently provides longer equipment life, increased employee productivity and morale and positive reactions from plant visitors.



## BPA's federal agency energy efficiency program: creating new jobs through energy efficiency

For more than 13 years, the BPA Federal Agency Program has partnered with federal agencies in the Pacific Northwest to identify, design and implement energy efficiency projects. With the passage of the American Recovery and Reinvestment Act (ARRA) BPA is uniquely positioned to assist federal agencies in the Pacific Northwest with new energy efficiency projects.

Of the \$787 billion budget approved under the recent ARRA, nearly \$50 billion is targeted at energy. This includes more than \$5 billion to improve energy efficiency in federal government facilities – saving energy and lowering operating costs while stimulating the economy through the creation of new jobs.

The BPA Federal Agency Program has the infrastructure and experience to support ARRA activities, including the financial accountability requirements. Program staff has assisted more than twenty federal agencies with more than \$65 million of energy efficiency projects, and will continue to work with several agencies in hopes of implementing new ARRA projects. While no funds have been formally approved or received, program staff has identified more than \$300 million of potential projects that could be funded at federal facilities. Existing contracting, purchasing and record keeping processes are being streamlined in anticipation of increased activity.

The BPA Federal Agency Program is not only proud of the energy savings that have been produced for regional federal agencies, but also of the benefits for the Pacific Northwest economy. The Federal Agency program employs private contractors – many of which are small, local businesses – to supply and install energy efficiency measures. By working with local contractors, the Federal Agency Program continues to provide much-needed jobs, and is strengthening the energy efficiency industry in the Pacific Northwest.

You can find links to regional and national sources of information about the American Recovery and Reinvestment Act funds available for energy efficiency at [www.bpa.gov/go/eestimulus](http://www.bpa.gov/go/eestimulus).



Seattle's Henry M. Jackson Federal Building in downtown Seattle is just one building in the BPA Federal Agency Program.

## New Energy Conservation Agreements ready for customers

New conservation agreements between BPA and utility customers are now available.

The Energy Conservation Agreement (ECA) was designed to transition conservation activity across contract periods. The ECA replaces other BPA Energy Efficiency agreements (e.g. CAA) and serves as a backstop funding source in the event no rate credit is available in future rate periods.

"We wanted to provide our customers a mechanism to assure a smooth transition of energy efficiency efforts across rate periods," said Mike Weedall, Vice President, BPA Energy Efficiency. "The ECA does just that. Even if a utility self-funds energy efficiency efforts or does not currently participate in conservation activities, the ECA enables utilities to effectively

provide energy efficiency opportunities to their customers now and in the future."

The ECA will be offered to customers operating under current conservation contracts by June 1, 2009. The ECA must be signed by Sept. 30, 2009 in order to transition projects into future rate periods and to assure eligibility for any available source of BPA Energy Efficiency funding throughout the ECA five-year contract term.

For more information about the ECA, visit [www.bpa.gov/Energy/N/pdf/BPA\\_EE\\_ECA\\_05\\_20\\_09.pdf](http://www.bpa.gov/Energy/N/pdf/BPA_EE_ECA_05_20_09.pdf) or contact your Account Executive or Energy Efficiency Representative.