

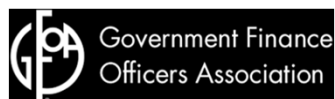


Smart Management for
Small Water Systems

Using Rebates to Reduce Water System Energy Costs

Thursday, December 6, 2018
1:00-2:00pm EST

This program is made possible under a
cooperative agreement with EPA.





Carol Rosenfeld

Senior Project Director

Environmental Finance
Center at UNC's School
of Government

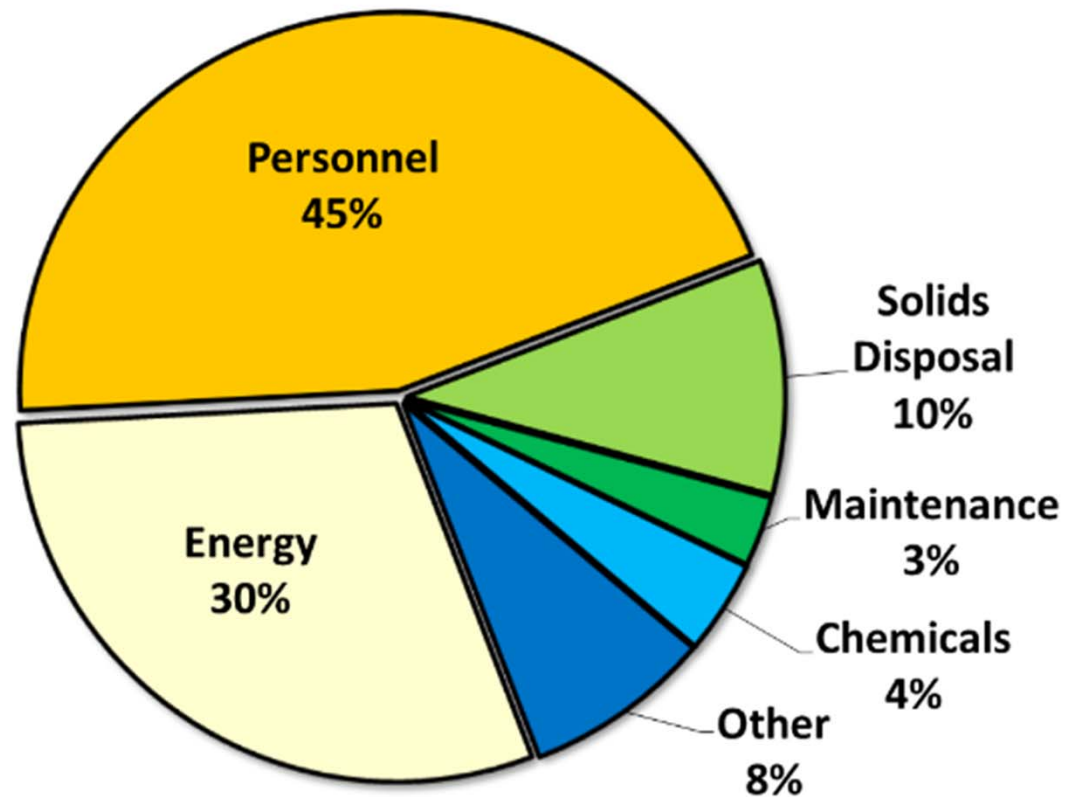
crosefeld@sog.unc.edu

(919) 843-5240

www.efc.sog.unc.edu

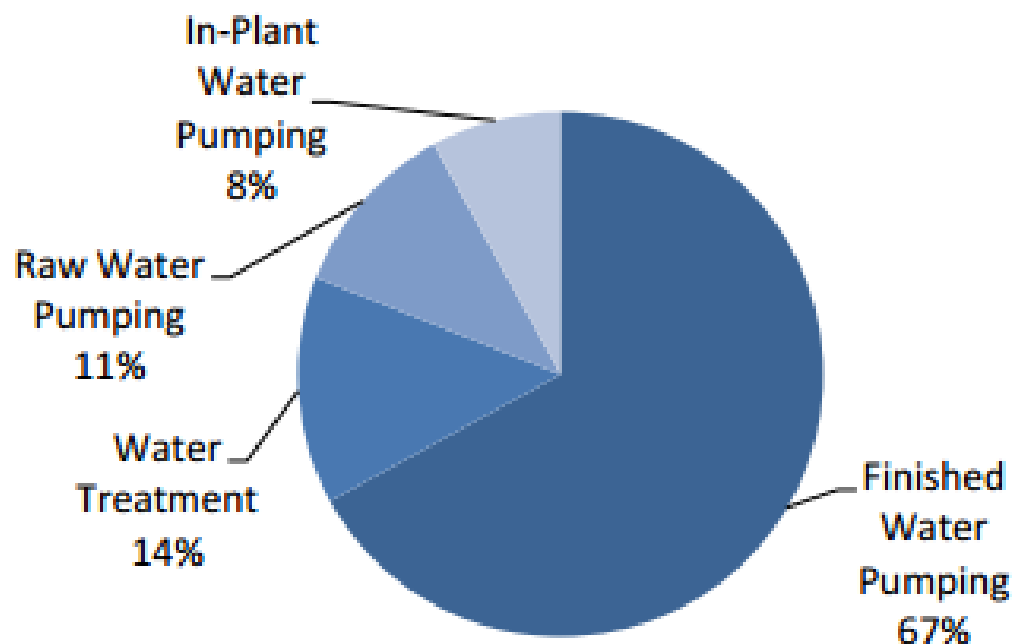


Why are we here today?





Typical Energy End-Uses in Public Surface Water Systems



Source: Keith Carns, EPRI Solutions, "Bringing Energy Efficiency to the Water & Wastewater Industry: How Do We Get There?," presented at *WEFTEC 2005*, Washington DC, November 2, 2005.



When, where, and why to use VFDs

- VFDs can save a lot of energy in the right application
- VFDs are sometimes utilized as a band-aid
 - Ensure equipment is right before VFD install
- VFDs have been heavily marketed, but big savings only exist in specific applications
 - Use a soft start where appropriate
- Utilizing VFDs in water pumping by replacing a throttling valve is almost always cost effective





Poll questions: Who is your electricity provider?

And, have you seen a recent energy bill for your system?



Webinar: Where am I Starting From? Understanding Your Water System's Electric Bill + The Energy Usage Baseline Tool



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Webinar: Where Am I Starting From? Understanding Your Water System's Electric Bill + The New Energy Usage Baseline Tool

Wednesday, June 8, 2016 | 2:00 - 3:00pm

Host Organization: Environmental Finance Center Network

Program: Drinking Water and Wastewater

Webinar

HOME / WEBINAR: WHERE AM I STARTING FROM? UNDERSTANDING YOUR WATER SYSTEM'S ELECTRIC BILL + THE NEW ENERGY USAGE BASELINE TOOL

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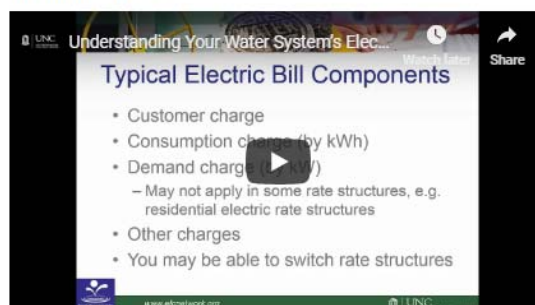
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For many water systems, the electric (or energy) bill is one of the largest operating expenses regularly incurred by the water system. It is also one of the most controllable operating expenses a water system will have. In order to begin to save money from energy conservation measures, it is first necessary to know where you are starting from. This webinar helped participants learn how to understand their electric bill(s) and their various components; how to compare different electricity rate schedules (if available from your electricity provider) as a means of looking for a more cost-saving, advantageous rate schedule (similar to shopping for the best cell phone plan you can find); and how to use the Environmental Finance Center's new Energy Usage Baseline tool, an Excel-based tool to help you establish the baseline of electricity usage for your water system, and track the effectiveness of energy conservation measures across time that you adopt.

Presenter: David Tucker, Project Director – Environmental Finance Center at The University of North Carolina at Chapel Hill

Webinar Recording

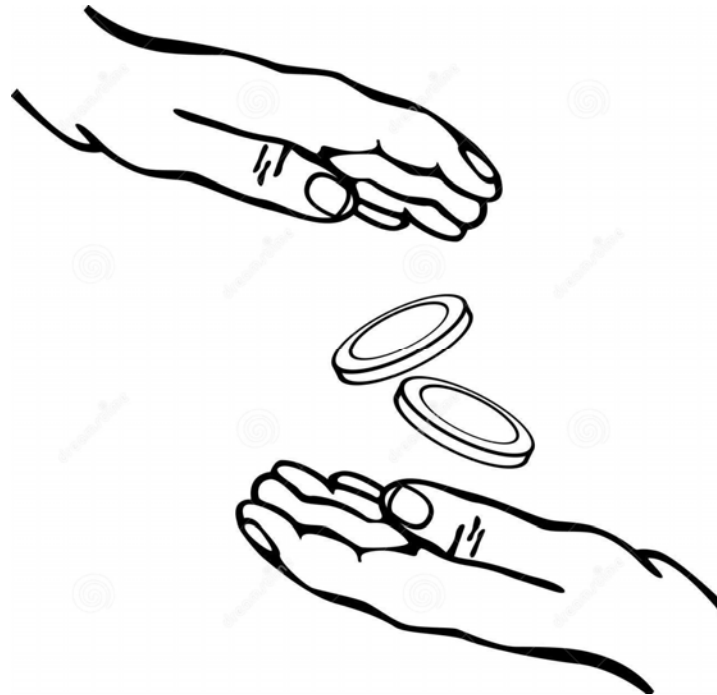


<https://efc.sog.unc.edu/event/webinar-where-am-i-starting-understanding-your-water-system%E2%80%99s-electric-bill-new-energy-usage>



Energy rebates

Cash incentives for energy efficiency or renewable energy





Poll question: Who's applied for an energy rebate?

Database of State Incentives for Renewables & Efficiency®

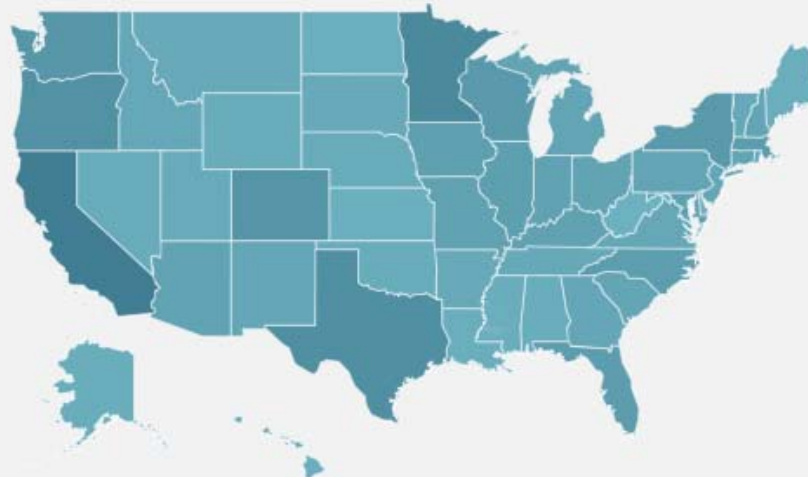
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- I** Industrial Resources >
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Name	State/ Territory	Category	Policy/Incentive Type	Created	Last Updated
City of San Francisco - Solar Energy Incentive Program	CA	Financial Incentive	Rebate Program	03/14/2008	09/25/2018
SMUD - PV Residential Retrofit Buy-Down	CA	Financial Incentive	Rebate Program	01/26/2005	09/24/2018
Renewables Portfolio Standard	CA	Regulatory Policy	Renewables Portfolio Standard	09/03/2002	09/24/2018
Qualified Energy Conservation Bonds (QECBs)	US	Financial Incentive	Loan Program	10/23/2008	08/22/2018
USDA - Rural Energy for America Program (REAP) Loan Guarantees	US	Financial Incentive	Loan Program	04/09/2003	08/21/2018
USDA - Rural Energy for America Program (REAP) Grants	US	Financial Incentive	Grant Program	04/09/2003	08/21/2018
USDA - Rural Energy for America Program (REAP) Energy Audit and Renewable Energy Development Assistance (EA/REDA) Program	US	Financial Incentive	Grant Program	02/18/2015	08/21/2018
Modified Accelerated Cost-Recovery System (MACRS)	US	Financial Incentive	Corporate Depreciation	03/15/2002	08/21/2018

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We've found 7 programs that match your filters

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Excluding SIR Programs

State/Territory: Illinois

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Name	State/ Territory	Category	Policy/Incentive Type	Created	Last Updated
ComEd -Energy Efficiency Program For Businesses	IL	Financial Incentive	Rebate Program	09/19/2008	04/04/2017
ComEd, Nicor Gas, Peoples Gas & North Shore Gas - Small Business Energy Savings Program	IL	Financial Incentive	Rebate Program	09/19/2008	03/31/2017
ComEd - Business Instant Lighting Discounts Program	IL	Financial Incentive	Rebate Program	10/09/2012	03/31/2017
ComEd - Energy Efficiency Program for Residential	IL	Financial Incentive	Rebate Program	12/08/2008	03/31/2017
ComEd - Energy Efficiency Program for Commercial New Construction	IL	Financial Incentive	Rebate Program	06/01/2009	03/22/2017
Residential On-Bill Financing Programs - Nicor Gas, North Shore Gas, Peoples Gas, Ameren and ComEd	IL	Financial Incentive	Loan Program	04/05/2012	08/22/2016
ComEd, Nicor Gas, Peoples Gas & North Shore Gas - Complete System Replacement Rebate Program	IL	Financial Incentive	Rebate Program	03/25/2013	03/26/2015

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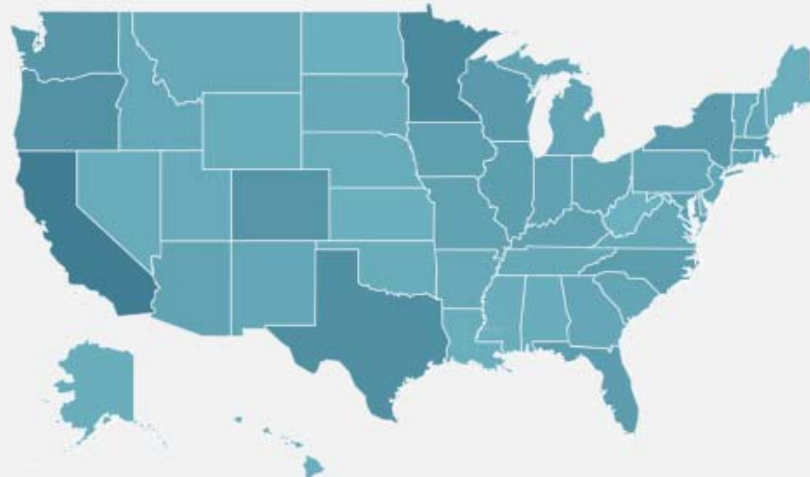
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Duke Energy - NC Solar Rebate Program	NC	Financial Incentive	Rebate Program	09/24/2018	09/24/2018
Qualified Energy Conservation Bonds (QECBs)	US	Financial Incentive	Loan Program	10/23/2008	08/22/2018
USDA - Rural Energy for America Program (REAP) Loan Guarantees	US	Financial Incentive	Loan Program	04/09/2003	08/21/2018
USDA - Rural Energy for America Program (REAP) Grants	US	Financial Incentive	Grant Program	04/09/2003	08/21/2018
USDA - Rural Energy for America Program (REAP) Energy Audit and Renewable Energy Development Assistance (EA/REDA) Program	US	Financial Incentive	Grant Program	02/18/2015	08/21/2018
Modified Accelerated Cost-Recovery System (MACRS)	US	Financial Incentive	Corporate Depreciation	03/15/2002	08/21/2018
Green Power Purchasing Goal for Federal Government	US	Regulatory Policy	Green Power Purchasing	02/19/2004	08/21/2018
Energy Goals and Standards for Federal Government	US	Regulatory Policy	Energy Standards for Public Buildings	06/19/2006	08/21/2018

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Duke Energy - NC Solar Rebate Program	NC	Financial Incentive	Rebate Program	09/24/2018	09/24/2018
Qualified Energy Conservation Bonds (QECBs)	US	Financial Incentive	Loan Program	10/23/2008	08/14/2018
USDA - Rural Energy for America Program (REAP) Loan Guarantees	US	Financial Incentive	Loan Program	04/09/2003	08/14/2018
USDA - Rural Energy for America Program (REAP) Grants	US	Financial Incentive	Grant Program	04/09/2003	08/14/2018
USDA - Rural Energy for America Program (REAP) Energy Audit and Renewable Energy Development Assistance (EA/REDA) Program	US	Financial Incentive	Grant Program	02/18/2015	08/14/2018
Modified Accelerated Cost-Recovery System (MACRS)	US	Financial Incentive	Corporate Depreciation	03/15/2002	08/14/2018
Green Power Purchasing Goal for Federal Government	US	Regulatory Policy	Green Power Purchasing	02/19/2004	08/14/2018
Energy Goals and Standards for Federal Government	US	Regulatory Policy	Energy Standards for Public Buildings	06/19/2006	08/14/2018
Federal Appliance Standards	US	Regulatory Policy	Appliance/Equipment Efficiency Standards	06/30/2006	08/14/2018

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Technology

Date

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Program Type

Implementing Sector

State

Coverage Area - Requires State Filter

Eligible Sector

From SIR



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Renewable Energy

Filter by Technology ✕

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Building Envelope

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Lighting ☐

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Name	State/ Territory	Category	Policy/Incentive Type	Created	Last Updated
Federal Appliance Standards	US	Regulatory Policy	Appliance/Equipment Efficiency Standards	06/30/2006	08/16/2018
Duke Energy Carolinas - Non-Residential Smart Saver Incentive Program	NC	Financial Incentive	Rebate Program	06/20/2009	08/06/2018
Energy-Efficient Commercial Buildings Tax Deduction	US	Financial Incentive	Corporate Tax Deduction	01/10/2006	02/28/2018
U.S. Environmental Protection Agency - ENERGY STAR Guidelines for Energy Management	US	Technical Resource	Energy Analysis	06/24/2015	05/11/2017
Tribal Energy Program Grant	US	Financial Incentive	Grant Program	05/01/2003	03/03/2017
Fannie Mae Green Initiative- Loan Program	US	Financial Incentive	Loan Program	05/28/2015	07/13/2015

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Date

Categories

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Filter by Eligible Sector

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Residential

Other

Filter by Eligible Sector ✕

Filter by Non-Residential

All Non-Residential ☐

Business

Public Sector

Filter by Non-Residential ✕

Filter by Public Sector

Search All Public Sectors

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Schools ☐

State Government ☐

Federal Government ☐

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Energy Category: Energy Efficiency ✕

Eligible Sector: Local Government ✕

Zip Code: 27599 ✕

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Name	State/ Territory	Category	Policy/Incentive Type	Created	Last Updated
U.S. Department of Energy - Loan Guarantee Program	US	Financial Incentive	Loan Program	09/12/2008	08/18/2016
Qualified Energy Conservation Bonds (QECBs)	US	Financial Incentive	Loan Program	10/23/2008	08/22/2018
Duke Energy Carolinas - Non-Residential Smart \$aver Incentive Program	NC	Financial Incentive	Rebate Program	06/20/2009	08/06/2018
SystemVision Energy Guarantee Program	NC	Financial Incentive	Rebate Program	07/15/2009	03/06/2017
USDA - High Energy Cost Grant Program	US	Financial Incentive	Grant Program	09/27/2010	06/09/2016

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Duke Energy Carolinas - Non-Residential Smart \$aver Incentive Program

Last Updated August 6, 2018

Program Overview

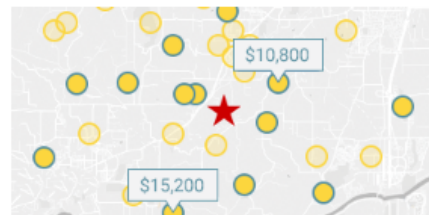
Implementing Sector:	Utility
Category:	Financial Incentive
State:	North Carolina
Incentive Type:	Rebate Program
Web Site:	https://www.duke-energy.com/business/products/smartsaver/all-smartsaver-rebates
Administrator:	Duke Energy Carolinas
Utilities:	Duke Energy Carolinas, LLC
Eligible Efficiency Technologies:	Refrigerators/Freezers, Equipment Insulation, Lighting, Lighting Controls/Sensors, Chillers, Heat pumps, Air conditioners, Compressed air, Programmable Thermostats, Energy Mgmt. Systems/Building Controls, Windows, Roofs, Processing and Manufacturing Equipment, Food Service Equipment, LED Lighting, Commercial Refrigeration Equipment
Applicable Sectors:	Commercial, Industrial, Local Government, Nonprofit, Schools, Federal Government, Agricultural, Institutional
Incentive Amount:	Agricultural Rebates: Varies widely Lighting: Varies widely by type HVAC Equipment: Varies widely by type Commercial Equipment: Varies widely by type Industrial Equipment: Varies widely by type
Equipment Requirements:	All equipment must meet certain efficiency standards located on the program web site

Summary

Duke Energy's Smart \$aver Incentive program offers rebates to non-residential customers to install energy efficient equipment in their facilities. All Duke Energy North Carolina nonresidential electric customers are eligible, except those that have elected to opt out of the Energy Efficiency Rider. Rebates are available for a wide range of equipment. All equipment must meet certain energy efficiency standards stated on the program web site. To receive the rebates, customers should submit a completed application within 90 days after the equipment is installed and operational. A list of frequently asked questions and the program application forms can be found on the program web site.

Recommended Next Steps

Get Free Quotes from Local Solar Companies



Contact

Duke Energy Non-Residential Rebate Program
Address:
 400 South Tryon St. S704A
 Charlotte, NC 28202
Phone:
 (800) 380-9580
E-Mail:
prescriptiveincentives@duke-energy.com

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Memos

08/06/2018 by Travis Blmore

(Review of existing information for the website)



Get to know your account representative





Poll question: Do you know who your account representative is?



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