Disclaimer

The views expressed in this presentation are solely those of the presenter, and do not represent the views of the Public Utilities Commission of Ohio.
S.B. 221

- Enacted in 2008, effective in 2009
- Established alternative energy requirements applicable to electric distribution utilities and electric service companies
- Established energy efficiency and peak demand reduction requirements for electric distribution utilities (not for electric service companies)
Ohio Alternative Energy Requirements (S.B.221)

25% of total kWh sales must come from alternative energy resources by 2025
- Half may be from advanced energy resources
- At least half from renewable, 0.5% solar
- At least half of renewable through facilities located in the state, remainder deliverable to the state
- Requirements apply to EDUs and electric service companies
- Payments/forfeitures for non-compliance
- Compliance not required if cost exceeds 3%
- Annual requirements for renewable resources, but not directly for advanced resources
Alternative vs Advanced vs Renewable
(4928.01 O.R.C.)

• Alternative Energy Resource: Advanced or Renewable
• Advanced Energy Resource:
  – Generation increases without CO2 emission increases
  – Distributed customer cogen (electricity with useful heat output)
  – Clean coal technologies
  – Fuel cells
  – Advanced technologies in clean coal, nuclear, solid waste conversion

• Renewable Energy Resource:
  – Solar, wind, hydroelectric, geothermal, biomass, biogas
  – Fuel derived from solid wastes through certain processes
  – Energy from wood/pulping byproducts (bark, chips, sawdust, lignin)
  – Fuel cells
  – Abandoned coal mine methane
  – Storage facility that promotes better use of renewable energy
SB 315 Updates

• Advanced Energy Resource:
  – Any new, retrofitted, refueled or repowered generating facility located in Ohio
  – Any uprated capacity that results from deployment of advanced technology

• Renewable Energy Resource:
  – New waste energy recovery system (generates electricity by conversion of waste heat or gas pipeline pressure reduction).
  – Higher education institution generation facility in which waste heat is used to produce steam, and which was placed into service during 2002 through 2004.
Qualified Renewable Resources

- Solar
- Wind
- Hydroelectric
- Geothermal
- Fuel Cells
- Storage
- Biomass
Renewable Benchmarks

<table>
<thead>
<tr>
<th>By end of year</th>
<th>Renewable Energy</th>
<th>Solar Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>0.25%</td>
<td>0.004%</td>
</tr>
<tr>
<td>2010</td>
<td>0.5%</td>
<td>0.01%</td>
</tr>
<tr>
<td>2011</td>
<td>1.0%</td>
<td>0.03%</td>
</tr>
<tr>
<td>2012</td>
<td>1.5%</td>
<td>0.06%</td>
</tr>
<tr>
<td>2013</td>
<td>2.0%</td>
<td>0.09%</td>
</tr>
<tr>
<td>2014</td>
<td>2.5%</td>
<td>0.12%</td>
</tr>
<tr>
<td>2015</td>
<td>3.5%</td>
<td>0.15%</td>
</tr>
<tr>
<td>2016</td>
<td>4.5%</td>
<td>0.18%</td>
</tr>
<tr>
<td>2017</td>
<td>5.5%</td>
<td>0.22%</td>
</tr>
<tr>
<td>2018</td>
<td>6.5%</td>
<td>0.26%</td>
</tr>
<tr>
<td>2019</td>
<td>7.5%</td>
<td>0.30%</td>
</tr>
<tr>
<td>2020</td>
<td>8.5%</td>
<td>0.34%</td>
</tr>
<tr>
<td>2021</td>
<td>9.5%</td>
<td>0.38%</td>
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<tr>
<td>2022</td>
<td>10.5%</td>
<td>0.42%</td>
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<tr>
<td>2023</td>
<td>11.5%</td>
<td>0.46%</td>
</tr>
<tr>
<td>2024 +</td>
<td>12.5%</td>
<td>0.50%</td>
</tr>
</tbody>
</table>
Renewable Energy Credits

- New Ohio Renewable Energy Credit (REC) trading market created
- 1 REC = 1 mWh of electricity generated
- Utilities may own renewable facilities or purchase RECs to meet the renewable portion of the standard
- PUCO certifies resources; established tracking systems will issue and track RECs (PJM-GATS, M-RETS)
- RECs have a 5-year lifetime following their acquisition
- Energy and RECs may be sold as separate commodities
Compliance Payments (Penalties)

Utilities and electric service companies subject to compliance payments if annual renewable and solar benchmarks are not met. Compliance payments can **not** be passed through to consumers.

**Non Solar:**
- Started at $45/mWh in 2009
- Adjusts with consumer price index
- 2012 penalty payment is $47.56

**Solar:**
- $450/mWh in 2009 and declines over time
- Adjusts by statutory schedule
- 2012 penalty payment is $350/mWh for solar

**Exceptions:** force majeure; 3% cost cap
Certification Application

• “REN” certification is not mandatory for any renewable project, but necessary to create RECs eligible for Ohio utility compliance
• No fee to apply
• May certify facilities prior to commercial operation
• Application will focus on:
  – Resource/technology utilized
  – Placed in-service date
  – Deliverability to the state
• One-time review (unless significant change to facility in future)
• Interested person may seek intervention and request hearing on certification
• Certification status will be conveyed to applicable attribute tracking system
• Net metering potential for smaller facilities
<table>
<thead>
<tr>
<th>RESOURCE</th>
<th>CERTIFIED FACILITIES</th>
<th>CERTIFIED CAPACITY (MW)</th>
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<tbody>
<tr>
<td></td>
<td>TOTALS</td>
<td>OHIO</td>
</tr>
<tr>
<td>BIOGAS - ANAEROBIC DIGESTION</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>BIOGAS - FOOD PROCESSING</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>BIOGAS - LANDFILL GAS</td>
<td>33</td>
<td>9</td>
</tr>
<tr>
<td>BIOMASS - WASTEWATER TREATMENT</td>
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<td>BIOMASS - WOOD WASTE</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>BIOMASS - PAPER MANUFACTURING</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>BIOMASS - UTILITY SCALE COFIRING</td>
<td>8</td>
<td>7</td>
</tr>
<tr>
<td>ABANDONED COAL MINE METHANE</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>HYDROELECTRIC</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>SOLAR PHOTOVOLTAIC</td>
<td>5,090</td>
<td>814</td>
</tr>
<tr>
<td>SOLID WASTE</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>WIND</td>
<td>44</td>
<td>24</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td>5,199</td>
<td>871</td>
</tr>
</tbody>
</table>

**COFIRING**

current through 9/14/2012
MW amounts may not add due to rounding
Utility-scale biomass projects

- Utility applications filed for plants using biomass or biomass co-fired with coal or pet coke
- Includes a private 200 MW (2012) plant certified
- Utility RFPs have been issued for biomass fuel
- Ohio Solid Biofuel Working Group to promote fuel supply development
Energy Efficiency

Defined as: “Reducing the consumption of energy while maintaining or improving the end-use customer’s existing level of functionality, or while maintaining or improving the utility system functionality”

(OAC 4901:1-39)
SB 315 Update

• Energy efficiency and peak demand reduction programs may include:
  – New combined heat and power systems
  – New waste energy recovery systems
  – Cost beneficial smart grid investment programs

• Inclusion of a waste energy recovery system in an EDU energy efficiency program precludes its consideration as an advanced energy resource
PUCO recently hosted a series of workshops on combined heat and power.

Topics covered included:
- Overview of CHP and its relevance to meeting USEPA emission standards
- Case studies of CHP facility installations
- CHP financing tools
- CHP and stand-by rates

Videos of the workshops and copies of the presentations are available on the PUCO website:
http://www.puco.ohio.gov/puco/
Energy Efficiency and Demand Reduction Benchmarks - SB 221 (OAC 4901:1-39)

• Establishes requirements and processes to determine specific benchmarks for energy efficiency and peak reduction programs

• Establishes energy usage and demand baselines for measuring annual energy savings and demand reductions

• Provides mechanisms by which mercantile customers’ investments in energy efficiency in their own facilities and can be recognized in electric utility programs as contributing to specific levels of energy savings and demand reductions.
Energy Efficiency Requirement

• 22% + reduction by 2025
• *Could* result in annual usage at 13.8 million mWh below 2007

Peak Demand Reduction Standard

• 7.75% by 2018
• Tariffs and special contracts available to commit the demand reduction
• Customers enrolled in RTO demand response programs are counted if customer commits the peak demand reduction
Ohio EDU territories
Peak Demand Reduction and Energy Efficiency Benchmarks

• Each Electric Distribution Utility initially filed a report identifying the 2009 baselines and benchmarks

• Each Electric Distribution Utility filed a program portfolio plan for energy efficiency and peak reduction programs

• Upon approval of the program portfolio plan, an Electric distribution utility may seek cost recovery

• Each year, the Electric Distribution utility must file a portfolio status report that demonstrates its compliance status with its benchmarks and provides an assessment of its performance

• Reductions based on a baseline which is the average of the preceding three calendar years
Peak Demand Reduction (PDR)

Defined as: “when measuring reduction programs, means the average maximum hourly electricity usage during the highest 100 hours on the electric utility’s system in a calendar year”. (OAC 4901:1-39)
Peak Demand Reduction (PDR)

Beginning in 2009 an EDU must implement peak demand reduction programs designed to achieve a 1% reduction in peak demand in 2009 and an additional 0.75% reduction each year through 2018.

<table>
<thead>
<tr>
<th>Year</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>1.00%</td>
</tr>
<tr>
<td>2010</td>
<td>0.75%</td>
</tr>
<tr>
<td>2011</td>
<td>0.75%</td>
</tr>
<tr>
<td>2012</td>
<td>0.75%</td>
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<tr>
<td>2013</td>
<td>0.75%</td>
</tr>
<tr>
<td>2014</td>
<td>0.75%</td>
</tr>
<tr>
<td>2015</td>
<td>0.75%</td>
</tr>
<tr>
<td>2016</td>
<td>0.75%</td>
</tr>
<tr>
<td>2017</td>
<td>0.75%</td>
</tr>
<tr>
<td>2018*</td>
<td>0.75%</td>
</tr>
</tbody>
</table>

7.75%

*program will be evaluated in 2018 regarding future PDR targets
### Energy Savings Benchmarks

<table>
<thead>
<tr>
<th>Year</th>
<th>Benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
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</tr>
<tr>
<td>2010</td>
<td>0.5%</td>
</tr>
<tr>
<td>2011</td>
<td>0.7%</td>
</tr>
<tr>
<td>2012</td>
<td>0.8%</td>
</tr>
<tr>
<td>2013</td>
<td>0.9%</td>
</tr>
<tr>
<td>2014-2018</td>
<td>1.0% per year</td>
</tr>
<tr>
<td>2019-2025</td>
<td>2.0% per year</td>
</tr>
</tbody>
</table>

By the end of 2025 - annual energy savings in excess of 22%
Peak Demand Reduction and Energy Efficiency Benchmarks

<table>
<thead>
<tr>
<th>Year</th>
<th>Added EE</th>
<th>Total EE</th>
<th>Added PDR</th>
<th>Total PDR</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>0.30%</td>
<td>0.30%</td>
<td>1.00%</td>
<td>1.00%</td>
</tr>
<tr>
<td>2010</td>
<td>0.50%</td>
<td>0.80%</td>
<td>0.75%</td>
<td>1.75%</td>
</tr>
<tr>
<td>2011</td>
<td>0.70%</td>
<td>1.50%</td>
<td>0.75%</td>
<td>2.50%</td>
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<td>2012</td>
<td>0.80%</td>
<td>2.30%</td>
<td>0.75%</td>
<td>3.25%</td>
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<td>0.90%</td>
<td>3.20%</td>
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<td>4.00%</td>
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<td>2014</td>
<td>1.00%</td>
<td>4.20%</td>
<td>0.75%</td>
<td>4.75%</td>
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<tr>
<td>2015</td>
<td>1.00%</td>
<td>5.20%</td>
<td>0.75%</td>
<td>5.50%</td>
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<tr>
<td>2016</td>
<td>1.00%</td>
<td>6.20%</td>
<td>0.75%</td>
<td>6.25%</td>
</tr>
<tr>
<td>2017</td>
<td>1.00%</td>
<td>7.20%</td>
<td>0.75%</td>
<td>7.00%</td>
</tr>
<tr>
<td>2018</td>
<td>1.00%</td>
<td>8.20%</td>
<td>0.75%</td>
<td>7.75%</td>
</tr>
<tr>
<td>2019</td>
<td>2.00%</td>
<td>10.20%</td>
<td></td>
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<td>2020</td>
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<tr>
<td>2021</td>
<td>2.00%</td>
<td>14.20%</td>
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<tr>
<td>2022</td>
<td>2.00%</td>
<td>16.20%</td>
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<td>2023</td>
<td>2.00%</td>
<td>18.20%</td>
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<tr>
<td>2024</td>
<td>2.00%</td>
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<tr>
<td>2025</td>
<td>2.00%</td>
<td>22.20%</td>
<td></td>
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</table>
Mercantile Applications

• “Mercantile customer” means a commercial or industrial customer if the electricity consumed is for nonresidential use and the customer consumes more than seven hundred thousand kilowatt hours per year or is part of a national account involving multiple facilities in one or more states. (ORC 4928.01 (A)(19))

• OAC 4901: 1-39-05 allows a mercantile customer to file, either individually or jointly with an electric utility, an application to commit the customer’s demand reduction, demand response, or energy efficiency programs for integration with the electric utility’s demand reduction, demand response, and energy efficiency programs.
  – If approved, this allows mercantile customers to be compensated for historic projects
Mercantile Applications

• Total historical mercantile applications filed to date: 1,368

• Project types:
  – lighting retrofits
  – HVAC
  – Compressed air
  – Energy Management System
EDU Filing requirements

• Program portfolio plans must be filed by April 15\textsuperscript{th} every three years (OAC 4901:1-39-04)
  • Demonstrate that the program is cost-effective
  • Current program evaluation
  • Proposed program

• Portfolio status reports must be filed by March 15\textsuperscript{th} of every year (OAC 4901: 1-39-05)
  – Performance of approved energy efficiency and PDR programs over previous year
    • Compliance demonstration
    • Program performance assessment
AEP Ohio Residential Programs

- **Lighting Rebates (SMART Lighting Program)**
  Discounts on ENERGY STAR® certified CFLs or LEDs from a number of participating retailers. No coupons or rebates needed; 12-bulb limit per purchase.

- **Appliance Rebates (ENERGY STAR Appliance Rebate Program)**
  Any AEP Ohio residential electric customer residing in Ohio who purchases an ENERGY STAR® certified appliance between April 1 and December 31, 2012 is eligible for a rebate.

- **Appliance Recycling Program**
  Remove and recycle operable second refrigerators and freezers (and operable room air conditioners during p/u of fridge/freezer). Customers can sign up online. Customer receives a check after recycling is completed.

- **In-home Energy Programs**
  In-home audits, tools, and rebates to help identify and correct areas in homes that may be wasting energy.

- **Online Energy Checkup (Home Energy Reports)**
  No cost, online tool to help identify ways to improve energy efficiency in the home.

- **Community Assistance Program**
  Customers enrolled in an AEP Ohio payment assistance plan can receive free energy efficiency and repair services for their home.

- **ENERGY STAR® New Homes**
  Residential new construction homes located within AEP Ohio/Columbia Gas of Ohio territory in Ohio can receive incentive payments for meeting specified ENERGY STAR efficiency standards.

- **Energy Check Toolkit Library Lending Program (Borrow a Kill-A-Watt Meter)**

- **Education Programs for Kids**

More information on AEP Ohio EE Programs can be found at [https://www.aepohio.com](https://www.aepohio.com)
AEP Ohio Non-Residential Programs

**AEP Ohio’s Prescriptive Program** – (Non-residential only) Customers must submit pre-approval application to AEP Ohio prior to purchasing equipment or starting project. Maximum incentive is 50% of project costs, up to $300,000 per project.

- Heating and Cooling (HVAC)
- Lighting
- Motors and Drives
- Refrigeration
- Miscellaneous Food Preparation & Storage Equipment
- Agriculture and Miscellaneous

**AEP Custom Program** – program for all energy efficient improvements that reduce energy consumption &/or PD not already covered by other AEP Ohio Programs

- (Non-residential only) Customer must submit pre-approval application to AEP Ohio prior to purchasing equipment or starting project. Incentive amount is customized to the specific results of the energy savings technologies implemented.

**New Construction Program** – for new construction or major renovations to encourage participants to exceed standard building practices to achieve increased efficiency above currents code requirements.

- Customers encouraged to contact AEP Ohio Business Programs Efficiency Team early in design process and must also submit pre-approval application to AEP Ohio. Incentives for whole building approach and individual measures are available.

**Express Program** – designed to help small business customers fund common energy efficiency projects such as lighting, sensors, programmable thermostats, electronically commutated motors, refrigeration controls and strip curtains. Projects are developed through AEP Ohio trade allies (program contractors).

- (Business customers that use <200,000 kWh/yr.) Program contractor submits application to AEP Ohio prior to purchasing equipment or starting project. Within 30 days of completion, project must be inspected prior to incentive payment. Projects are funded up to 100% of the total contract cost.

**Self-Direct (Mercantile Customers only)** - Program allows C/I customers to go back 3 years on already completed EE projects. Only for C/I customers that consume >700,000 kWh/yr. and project must be cost-effective.

- Customer must submit applications and supporting documents and if approved by AEP Ohio and PUCO, one time payment is made or rider exemption is applied. Payment is 75% of calculated incentive under Prescriptive or Custom Programs.

More information on AEP Ohio EE Programs can be found at [https://www.aepohio.com](https://www.aepohio.com)
First Energy Residential Programs

- **Direct Load Control** - Offers residential customers a programmable thermostat that can be used to achieve year round electric savings for those with electric heat and/or central air conditioning.

- **Home Energy Analyzer (Online Audit)** - Online audit program allows a customer to enter specific data about their home and receive customized tips for energy savings.

- **Appliance Turn-In** - Residential customers are eligible for a cash incentive and removal of their older inefficient secondary appliances (refrigerators, freezers and room air conditioners).

- **EE Products** - HVAC & Water Heating, Appliances, Consumer Electronics: Program materials available in over 470 retail store locations. HVAC Portion of Program – Total of 400+ HVAC contractors.

- **Efficient New Homes** - Provides a rebate to local builders for achieving energy efficiency targets through a combination of building shell and appliance upgrades. To qualify for this program, the house must exceed the standard building code by 15 percent or 30 percent.

- **Comprehensive Residential Retrofit**

- **CFL Program**

- **Low income - Community Connections (OPAE)** - Weatherization measures and client education to low-income customers. Administered by OPAE which coordinates the work through a network of agencies and subcontractors.
First Energy Non-Residential Programs

Equipment programs include:

- Lighting – standard and non-standard
- Motors and Drives
- Traffic Signals
- Refrigeration & Commercial Food Service
- HVAC Incentives Program
- Specialty Equipment
  - Commercial Water Heaters
  - Commercial Energy Load Measures
  - Laundry Equipment
  - Vending Machine Measures
- Custom Incentive Program
  - Projects that do not meet the eligibility criteria for other FirstEnergy utility business programs.
- Audit Program - Customer completed energy audits recommending installation of efficient equipment or process changes. Eligible audits will recommend implementation of measures offered by the Company. The audit measure is dependent on implementation and approval of an audit recommended measure offered by the Company.
- Mercantile Customer Program – Customers who have already completed an energy efficiency project and thus are not eligible to participate in other incentive programs
  - Customer must use more than 700,000 kWh per year for non-residential purposes,
  - or be part of a national account that includes multiple facilities in one or more states
- C/I New construction - builders of new residential construction are eligible to receive $400 per home plus $0.10 per kWh saved for homes that perform 15 percent better than the 2006 International Energy Conservation Code
  - Incentives to builders of energy efficient homes in the companies’ Ohio service territories
  - ENERGY STAR® certification is a pre-requisite for participation
  - Max payment of $1200 per home

More information on First Energy Ohio EE Programs can be found at https://www.energysaveohio.com

Details on program changes can be found in PUCO dockets for case numbers: 12-2190-EL-POR, 12-2191-EL-POR, 12-2192-EL-POR
DUKE Energy Ohio Residential Programs

HOME ENERGY HOUSE CALL
• Free in-home energy assessment designed to help the customer learn how their home uses energy and how they can save on their monthly bills.

SMART SAVER INCENTIVE PROGRAM
• Rebate program for existing homes or new builds that install a high efficiency furnace, heat pump or air conditioner.

POWER MANAGER
• Voluntary program that pays the customer for reducing their air conditioning use during times of high demand for electricity. Free load management switch is installed on outside of home which will cycle your air conditioner off and on when demand is especially high. One time credit paid for signing up and credit on electric bill when event occurs.

LOW INCOME SERVICES
• OHIO HOME WEATHERIZATION - Services provided to eligible customers are based on home's specific energy usage and needs. May include Furnace or heat pump clean and tune, health and safety check, energy efficient light bulbs, water heater wraps, weather stripping and piping wrap, duct sealing, wall and attic insulation, and other air leakage sealing measures.
• OHIO ELECTRIC RESIDENTIAL LOW INCOME PILOT PROGRAM - The Ohio Electric Residential Low Income Pilot Program provides assistance to low-income electric customers by making lower rates available to eligible customers. The program will accept up to 10,000 participants that meet the eligibility guidelines.
• ENERGY MAINTENANCE SERVICE - Poor heating and cooling equipment maintenance can cause major energy waste in a home. Homeowners often do not have the knowledge or the physical capabilities to maintain their equipment themselves. This is especially true of the elderly and disabled customers. Therefore, Duke Energy is offering an Energy Maintenance Service.

PREPAID BILLING SERVICES (approved for research purposes) - This is an option of paying for electrical use prior to consumption allowing customers to control their bills and energy use.

Residential – Custom Programs
• HOME ENERGY COMPARISON REPORT – Customers that sign up will receive a report in the mail that compares the energy use of their home to similar homes in the area.
• PERSONALIZED ENERGY REPORT - Personalized report that demonstrates how a home uses energy and provides tips on energy reduction.

More information on Duke Energy Ohio EE Programs can be found at http://www.duke-energy.com
DUKE Energy Ohio Non- Residential Programs

ENERGY ASSESSMENTS – available as:
• Online Assessments – Customer input facility data and receives tips on energy reduction
• Off-site Assessments – Customer can discuss facility energy usage over the phone with a professional engineer and receive a detailed report assessing energy usage and ways to implement energy-saving ideas
• On-Site Assessments - On-site visit and investigation of energy-saving opportunities. Customer will receive a comprehensive report detailing the findings and potential projects with paybacks. On-site assessment fee can be recovered through implementation of Smart Saver Incentives.

SMART SAVER INCENTIVE PROGRAM
• Customer can receive incentive payments for installing high-efficiency lighting, HVAC, pumps and other qualifying equipment (Prescriptive and Custom rebates available.

MERCANTILE SELF DIRECT PROGRAM
• Rebate program is for past energy efficiency initiatives that have not received Smart Saver incentives. Qualifying customers who installed energy efficiency equipment or implemented certain energy efficiency measures on or after January 1, 2009 can take advantage of this program. Customers must also use more than 700,000 kilowatt-hours (kWh) per year – or be part of an account with multiple locations.

POWERSHARE - Demand Response Program that rewards the customer for making adjustments to energy consumption levels during peak time periods. 3 levels available: Emergency Option, Call Option, and Quote Option.

Large Businesses - Custom solutions

ENERGY INFORMATION AND CONTROL SERVICES
• A single source provider of technology-based energy management solutions.

SMART BUILDING ADVANTAGE
• A whole building approach which evaluates customer information and on-site assessments to realize maximum energy efficiency for facility

PROPERTY MANAGER’S CFL PROGRAM
• Program to provide the customer with energy efficient compact fluorescent bulbs (CFLs) and upgrade the entire property’s lighting for less.

SCHOOL INCENTIVE PROGRAM
• Incentives to schools to install high efficiency equipment in applications involving new construction, retrofit and replacement of failed equipment.

ENERGY EFFICIENCY EDUCATION PROGRAM FOR SCHOOLS
• This program is offered to schools and is currently available for third and fourth grade classes. This program educates the students about energy sources and energy efficiency in homes and schools and provides them with the ability to conduct a home energy audit of their homes.

More information on Duke Energy Ohio EE Programs can be found at http://www.duke-energy.com
DP&L Residential Programs

**Lighting Rebates** – discounted prices on CFL at local retail stores.

**HVAC** – Instant rebate incentives in the form of a credit shown on the contractor’s invoice for qualifying heating and cooling systems. No paperwork required.
- Participating contractors list available on website

**Residential HVAC Diagnostics and Tune-Up** – DP&L customers receive instant savings in the form of a credit shown on your contractor’s invoice. No paperwork required.
- Participating contractors list available on website

**Smart Energy Assistance Program** - Residential Low Income Affordability –
- Eligible customers can receive a free home and energy use audit along with energy improvements.

**Residential Appliance Recycling** – Free appliance pick up and $25 rebate.
- Refrigerator or freezer must be empty and in working condition.
- Unit must be 10-30 cubic feet in size

DP&L Non-Residential Programs

Rapid Rebate Program
• Payments offered to Business and Government customers for installation of energy efficient lighting, HVAC, motors, drives, compressed air.

Custom Rebate Program
• Payments offered to Business and Government customers for installation of customized, industry-specific or facility-specific applications not covered by Rapid Rebates Program.

New Construction Rebates
• Lighting Power Density (LPD) Reduction for Interior Lighting
• Whole Building Energy Performance Baseline Improvements

Large Customer Self-Direct Program (Mercantile) - one-time rebate or ongoing discount on your DP&L bill for improvements during the three prior calendar years.
• Customer must use more than 700,000 kWh annually or belonging to a national or regional account and
• installed energy-saving equipment in the last three years.

Government Energy Audit Rebates
• Comprehensive energy analysis of facility (fee). DP&L will reimburse customer 50% of the cost of the audit and will pay the remaining 50% if customer implements identified electricity-saving projects within 1 year of the audit, and the amount of the investment is equal to or greater than the cost of the audit.

More information on Dayton Power and Light EE programs at http://www.dpandl.com/save-money/
EDU Renewable Programs

- REC purchase programs – offered by AEP, Duke and DP&L to their customers.
- Renewable Energy Technology Program – AEP program for its customers, help with financing solar PV or wind projects, in return for 15 year commitment of RECs.
- FirstEnergy Renewable RFP – 10 year commitment for REC purchase. However, due to high shopping levels, this year’s RFP was cancelled (decision not yet approved by PUCO).