Industrial Technologies Program

Industrial Utility Webinars
March 10, 2010
Areas Covered in this Webinar
- Incentives that are used to help commercial/industrial customers
- Differences between incentive and program types
- Using demand-response markets
- DOE ITP resource handbooks

Speakers
- John Nicol, SAIC/Wisconsin Focus on Energy
- David Pirtle, PEPCO Holdings, Inc.
- Tom Hovde, Snohomish PUD
- Lindsay Bixby, BCS, Incorporated

Sponsors
- DOE Industrial Technologies Program
- American Public Power Association
- APPA, Demonstration of Energy-Efficient Developments
- Western Area Power Administration

Questions?
Email rharry@bcs-hq.com
Financial Mechanisms for the Industrial Sector

John Nicol, PE
SAIC/RW Beck

March 10th, 2010
Session Agenda

- Presenter’s Perspective
- Industrial Market Assessment
- Pro’s and Cons of Financial Tools
  - Study financing tools
  - Project financing tools
- Financing tools and Technical Assistance
- Summary
- 25+ years promoting energy efficiency in commercial and industrial facilities

- Directed Wisconsin’s Focus on Energy Industrial Sector program since the start in 2001. In 2010 the budget is $18 million to achieve savings of 97,000 MWH, 17 MW and 6,800,000 therms.

- Also providing strategic support to other efficiency programs including Ameren Illinois Utilities and the State of Hawaii
Industrial Market

- Higher degree of technical expertise
- Many capital budget opportunities
- Very diverse businesses, processes and sizes
- Global competitors – survival mode
- Some have corporate offices that may not be in program territory
- Volatility in ownership, staff levels and upper management
- Some have very high energy intensity which can lead to large savings – especially for processes
Market Barriers

1. Project identification ability
2. Ambiguous project information
3. Technical risk
4. Savings risk
5. Low ROI
6. Limited capital
7. Limited staff resources
8. No upper management commitment
9. Company culture
Market Barriers

1. Project identification ability
2. Ambiguous project information
3. Technical risk
4. Savings risk

Solution: Study financing tools
Study Financing Tools

- Study incentives
- Pulp and Paper Pumping Study grants
- Save Energy Now – Energy Saving Assessments
- Industrial Retro-commissioning
Study Financing Tools

- **Study incentives – 50% funding (max $7,500)**
  - Pros: Partnering to reduce customer risk
  - Cons: Limited project motivation and potential vendor manipulation

- **Pulp and Paper Pumping Study grants – 100% funding (max $10,000, $5/HP)**
  - Pros: Customer has no expense. Gets customer and vendor attention.
  - Cons: Limited project motivation
Study Financing Tools

- **Save Energy Now – Energy Saving Assessments – 100% funding**
  - **Pros:** Independent expert analysis and largest energy intensive customers
  - **Cons:** Limited project motivation. Only appropriate for very large customers
Study Financing Tools

- Retro-commissioning – funding dependent on projects implemented
  - Minimum required capital commitment
  - Full cost covered if enough savings is achieved
  - Compressed air
  - Refrigeration

- Pros: Partner with committed customers resulting in high project motivation
- Cons: More complex. Vendor selection and oversight process is critical
Market Barriers

5. Low ROI
6. Limited capital
7. Limited staff resources

Solution: Project financing tools
Project Financing Tools

- Prescriptive incentives
- Custom incentives
- RFP Project grants
- Shared Savings
- RFP Staffing grants
- Emerging Technology Investments
Project Financing Tools

- Prescriptive incentives
  - Project incentive set per unit (ie: $/HP)
  - Good for standard common technologies
  - Program energy savings may be deemed
  - Hybrid: $/unit incentive, but energy savings is calculated – VFD incentives

- Pros: Vendors can use to sell. Program administration costs lower.
- Cons: Is less effective if there are broad customer variances (ie: hours). Program has less control over how many are installed.
**Project Financing Tools**

- **Custom incentives**
  - Project incentive based on energy savings
  - Pre-approval required
  - Good for complex or process specific technologies
  - Good opportunity to integrate program technical assistance

- **Pros:** Can impact more complex and usually bigger projects.

- **Cons:** Vendors less integrated.
Project Financing Tools

- **RFP grants**
  - Customer specifies incentive needed
  - Customer indicates why this incentive amount is needed
  - Can provide different criteria than custom (i.e.: shorter payback)
  - Competitive
  - **Pros:** Usually much larger and longer term projects apply. Provides urgency and call to action for customer.
  - **Cons:** More funds tied up with larger projects.
Shared Savings

- Project cost is paid out of savings
- Savings is measured and verified

Pros: Allows customers to have a guaranteed positive cash flow. Program funds come back.

Cons: Program administration can be more complex. Some companies do not want to use this approach.
Project Financing Tools

- Staffing RFP
  - Customer specifies incentive needed to fund staff to manage a list of projects
  - Customer indicates why this incentive amount is needed
  - Competitive
  - Pros: Provides mechanism to overcome staffing barrier. Helps prove benefit of energy focused staff.
  - Cons: Program administration can be more complex.
Emerging Technology Investments

- Investment pool to fund near commercial emerging technologies
- Equity or loan to emerging technology company
- Technical and business due diligence before investing
- Technical, business and marketing support after investing

Pros: Provides support to appropriate emerging technologies. Program funds are recycled.

Cons: Program administration infrastructure needs to be carefully developed
Financing and Technical Assistance

- Financing projects enhances technical assistance.
  - Is a show of endorsement for technology
- Strong technical due diligence is critical to ensure that program funds are effectively used.
- Combining expert technical assistance and business/finance expertise can be powerful tool to influence projects.
Summary

- Financial assistance for studies are important to overcome initial project barriers.

- Financial assistance for projects can be enhanced by having a portfolio of different types of incentives or financing to better meet the specific needs of a customer.

- Understanding the business cases for different types of industry is important to effectively meet their needs.
Contact Information

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Industrial Utility Webinar
Financial Mechanisms and Incentives for Implementing Energy Efficiency
March 10, 2010

David Pirtle
Regulatory Affairs Lead
Pepco Holdings, Inc.
Utility Business Overview

Power Delivery

- **Peepco**: A PHI Company
  - **Electric Customers**: 753,000
  - **GWh**: 26,488
  - **Mcf (000's)**: N/A
  - **Service Area**: 640 Square Miles
    - District of Columbia, major portions of Prince George’s and Montgomery Counties
  - **Population**: 2.1 million

- **Delmarva Power**: A PHI Company
  - **Electric Customers**: 513,000
  - **GWh**: 13,477
  - **Mcf (000's)**: N/A
  - **Service Area**: 6,000 Square Miles
    - Delmarva Peninsula
  - **Population**: 1.3 million

- **Atlantic City Electric**: A PHI Company
  - **Electric Customers**: 121,000
  - **GWh**: N/A
  - **Mcf (000's)**: 18,300
  - **Service Area**: 275 Square Miles
    - Northern Delaware
  - **Population**: .5 million

- **Electric Customers**: 539,000
  - **GWh**: 9,931
  - **Mcf (000's)**: N/A
  - **Service Area**: 2,700 Square Miles
    - Southern New Jersey
  - **Population**: 1.0 million
Pepco & Delmarva EE & C Program Descriptions

Non-Residential Prescriptive Rebate Program
Provide incentives for selected common, cost-effective energy efficiency measures.

Non-Residential HVAC Efficiency Program
Motivate non-residential customers to select high efficiency options when purchasing HVAC systems through incentives for high efficiency unitary AC and heat pump equipment.

Custom Incentive Program
Any cost-effective non-lighting energy efficiency improvements that are not eligible for rebates through the Company’s other non-residential DSM programs.

Building Commissioning and O & M Program
Improve the way customers commission, operate and maintain their facilities.
General Overview C&I Programs

Early Out of the Gate

• DC programs approved in March 2009, Maryland programs approved in August 2009 after a 2 year regulatory approval effort

Strategy

• Decoupling of revenues from electricity sales
• PJM Capacity Market integration (Maryland only)
• EM&V Statewide utility contractor, with PSC evaluator oversight
• Participation in the NEEP Regional EM&V Forum
• Prescriptive, HVAC and Custom programs were launched in September 2009
• O&M Commissioning Programs launched in January 2010
What is working

Prescriptive Program

• Lighting has Significant traction.. typical T12 to T8 retrofits and new fixtures
• VFD & Motors have strong participation likewise

Sample pricing of rebates

• New Fixture with HPT8 Lamps & Ballasts or T5/T5HO Lamps and Ballasts, (3 or 4, 4-ft Lamps) $30 Rebate
• Re-lamp & Re-ballast $25 Rebate
• De-lamp/Retrofit with HPT8 Lamps and Ballasts and Retrofit Kit (Existing 4-ft and 8-ft fixtures with 3 or 4, 4-ft or 8-ft Lamps) $40 Rebate
• Probe-Start to Pulse-Start Metal Halide > or = 150W $35 Rebate
• Occupancy Controls - Wall Mount (near or replacing wall switch) $25 Rebate
Slower Activity than Expected

Unitary HVAC Program

Covers split and pkg. AC and Heat Pumps ranging from 5.4 to 20 Tons

• Significant capital requirements during the recession hindering participation, plus we expect acceleration in the cooling season. Especially true in our Delmarva Power Maryland service area.

Sample pricing of rebates

• Tier 1 Incentives $35/Ton up to $70/Ton for higher efficiency Tier 2
• $200 for Dual Enthalpy Economizer Control (added to the above)
**Just Starting**

- Custom Program participation is less than expected, likely due to long lead time frame of engineering studies and complexity of the evaluation process. Additionally all Chillers have to go thru the Custom Program

- O&M Commission just started in January

**C&I customers Feedback**

Quick and easy applications, with well defined projects leads to emphasis on prescriptive programs

**Anecdotal Theme**  get in, get out, get paid

Balancing act between data requirements and participation:
- Less data you require, typically leads to more participation, but then the less value that information tends to be.
- Must be balanced to meet state, and PJM EM&V reporting requirements
General Overview of Program Changes

• The Prescriptive Incentive program in DC close to budget. Need flexibility to shift funds from other programs, plus we’re reviewing lower incentive rates

• Considering addition of food cooking equipment to the Prescriptive Incentive program. Presently reviewing cost effectiveness

• Determine if expanding variable frequency drive measures to include non-HVAC applications in Delmarva Power C&I businesses has merit and can be cost effective
Market integration of PJM earnings to offset costs for DSM surcharge

- **PJM Reliability Pricing Model (RPM) and Energy Efficiency Resource**
  PJM’s capacity-market model. Implemented in 2007, based on making capacity commitments three years ahead, designed to create long-term price signals to attract needed investments in reliability in the PJM region.

- On March 26 2009, FERC approved PJM’s filing to establish an opportunity for energy efficiency and conservation programs to participate in the RPM Base Residual Auction (“BRA”) for capacity.

- On April 23, 2009, PJM’s Markets and Reliability Committee approved the rules governing energy efficiency and conservation program participation in the capacity market.

- April 26, 2009 PJM approved Pepco & DPL’s initial monitoring and verification plan for energy efficiency and conservation resources, permitting the Company to participate in the May 2009 PJM capacity auction for the 2012/13 PJM Planning Year.

- January 22, 2010 FERC approved auction for 2011/2012 delivery year.
Nominated Energy Efficiency (EE) Value

- EE Resource may commit to an FRR Capacity Plan for a maximum of up to four consecutive Delivery Years. Manuals 18-PJM Capacity Markets & 18B EM&V

- Window of EE Performance Hours
  Estimated PJM Average Demand (kW) reduction during Summer June–August, 2pm–6pm, M–F, Non-Holiday

- Demand reduction value during performance hours determined by sampling to meet a statistical accuracy and precision of no less than a one tailed 90% level of confidence (equal to 2 tailed 80%) and 10% relative precision
Pepco/DPL PJM EE Activities for Maryland only

- Pepco Bid 44 MW, DPL 11 MW – a portion of the projected capacity value of its EE&C programs due to reduce uncertainties regarding the market receptivity of programs and financial risks

- The Pepco/DPL plan to bid any additional/shortfall in peak demand available from the programs into RPM 3rd Incremental Auction (Jan 2012) as total savings become more certain for delivery year 2012

Note: this does include DR/ILR DLC activities
Projected Market Earnings Estimates

- The market clearing price of these resources for Pepco was $133.37 per MW Day or approximately $2.2 million for the 2012/2013 PJM planning year.

- The market clearing price of these resources for DPL was $169.63 per MW Day or approximately $0.7 million for the 2012/2013 PJM planning year.

- Overall EE&C spending budgets for both Res and Non-Res is $20 million for Pepco and $7 million DPL.
EE resources are eligible to offer in the 11/12 DY

In addition, an Installation Period of June 07-May 08, Fully Installed for Summer 2008, would also be eligible for 11/12 DY.

<table>
<thead>
<tr>
<th>Installation Period</th>
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<th>Eligible Delivery Years</th>
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Columbia Square (13th & F Associates L.P.)
555 13th Street, NW
Washington DC 20004

- Columbia Square replaced (40) existing motors with (40) new NEMA-rated premium-efficiency electric three-phase motors and installed (40) variable frequency drives (VFDs).

- The combination of new motors and VFD’s created an annual energy savings of over 750,000 kilo-watt hours (KWH).

- Hines’ energy saving efforts earned them a cash incentive of $98,815, which is the largest incentive paid out in DC since the program was launched.
Evening Star  
1101 Pennsylvania Avenue, NW  
Washington, DC 20004

- The building management staff began the application process for a Lighting Retrofit Project in August 2009.

- Total of 1,950 lighting fixtures and ballasts moving from antiquated T-12 to high-performance T-8 lamps. Exit signs were also replaced and upgraded to high efficiency LED technology and occupancy sensors were installed in 100 offices to automatically turn off lights when empty.

- In total, the retrofit will save 353,200 kWh annually and has received a cash incentive of $44,585 from the program.
Snohomish PUD Commercial & Industrial (C&I) Energy Services

DOE Industrial Technologies Program
2010 Webinar Series
March 10, 2010

Tom Hovde, Sr. Executive Accounts Mgr
Business Services
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425.783.1703
PUD Power Supply

Break out of 2009 - 2010 planned power mix
- 10% green energy
- 80% BPA
- 10% open energy market
Focus on Local Renewable Generation

- **Tidal**
  Admiralty Inlet pilot - up to 3 turbines

- **Geothermal**
  detailed resource evaluation under way

- **Low Impact Hydro**
  three existing sites, evaluating others

- **Solar**
  10 kW project on PUD headquarters, offering customer incentives

- **Biomass/Dairy-Digester/ Landfill Gas**
  reliable “base-load” projects
Conservation as a resource

- Lowest cost, lowest risk resource for meeting future demand
- Reduces the need for new generating resources by 50% over the next 20 years
- Aligns with State Initiative 937 - Renewable Portfolio Standard

2009 Conservation Acquired (kWh)

- NEEA, 7,270,800
- Commercial & Industrial Customers, 32,850,000
- Residential Customers, 30,484,800

Snohomish County PUD

Be a Conservation Sensation
C&I Energy Efficiency at the PUD

- Customer education
- Technical and project management support
- Financial incentives

- Historically 70% of projects are lighting, accounting for half of total savings, others include industrial process, commercial HVAC measures
- Completed 245 projects in 2008 and 493 projects in 2009
- Anticipate 550 plus projects in 2010
- Ave project size decreased from 120,000 kWh in 2007 to 54,000 kWh in 2009

New in 2009

- Streamlined programs, Increased incentives
- Resource Conservation Manager program for schools
Commercial and Industrial Programs

Incentives & Contractor Payments
$5.8 million

- Custom Incentives: 50%
- Prescriptive Rebates: 20%
- Regional Programs: 12%
- New Construction: 18%

Impacts
3.75 aMW

- Custom Incentives: 44%
- Prescriptive Rebates: 21%
- Regional Programs: 18%
- New Construction: 17%
2009 Commercial and Industrial Results

By Program

By Measure

- New Construction
- Custom Incentives
- Prescriptive Rebates

- Lighting
- HVAC
- Air Compressor & Motors
- Other
2009 Program Status – PUD Direct Hands On

- Savings Target: 26,280,000 kWh (3.00 aMW) with $5.8 Million Budget
- Number of projects completed: 493
- Achieved Savings: 26,770,000 kWh (102%)
- Commercial: 421 projects, 19.9M kWh; $3.8M incentives/rebates ($0.19/kWh)
- Industrial: 72 projects, 6.3M kWh; $1.3M incentives ($0.20/kWh)
- Additional 6.1M kWh from regional multi-utility programs, third party delivered
C/I Energy & Business Services

- **Coordination w/CI Energy Efficiency**
  - Develop leads, support CI projects
  - Account managers assigned to Top 700 C/I customers
  - Energy Challenge outreach to Top 700 customers

- **Community Outreach**
  - Business Services - geographic assignments to cities, schools, other community groups
  - Helped coordinate w/4 cities/tribes receiving ARRA direct allocations plus with other cities and county; 7 cities received competitive awards

- **2010 ... Continue Outreach**
  - Co-deliver Resource Conservation Manager Program launched in late 2009
  - Three participants; four more to join soon
New Funding Calculation Workbooks

- Single file with all forms included
- Simplified calculations
- Intuitive
- User friendly
- Online at www.snopud.com
# New HVAC Workbook

## Commercial & Industrial Energy Efficiency Services

**HVAC WORKBOOK**

**Funding Calculation Worksheets for HVAC EQUIPMENT, MOTORS, and DRIVES**

> Providing energy efficiency solutions that deliver verifiable energy savings and value to our customers.

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**Forms for PUD Use Only**

- Work Authorization
- Tracking Sheet
- Payment Request
C&I Incentives – Existing Buildings

- For lighting and lighting controls, incentive is 20¢ per kWh estimated annual savings.
- HVAC and other equipment which exceeds code requirements is eligible for incentives of 20¢ to 30¢ per kWh estimated annual savings; Baseline for retrofit is 85% of code value; Electric resistance baseline is allowable.
- Standardized calculations for common HVAC measures like heat pumps, PTAC, PTHP, air conditioners, chillers, ASDs etc.
- Maximum incentive = 70% of project cost.
C&I Incentives - New Construction

- For lighting, variable incentive from 15¢ per kWh to 25¢ per kWh estimated annual savings, 20¢ per kWh for controls.
- HVAC and other equipment, incentives of 20¢ to 30¢ per kWh estimated annual savings.
- Standard calculations for common measures like VFDs, HVAC equipment, etc.
- Custom incentives available for non-standard items.
- Project / equipment must exceed code requirements by at least 10% to qualify.
- Maximum incentive = 50% of material costs or full incremental cost.
Other C&I Incentives

For both Existing Facilities and New Construction

- Process equipment and controls
- Compressed air systems
- Pumping systems
- Refrigeration equipment
- Data center measures
- Other technologies as appropriate
C&I “Rebates”

- Lighting rebates up to $15,000 / 70% of project cost
- PC power management, commercial kitchen equipment, green motor rewind,
- **Increased rebate amounts in 2009** by 30 to 40% for most measures
Industrial Projects

- Focus on Process and System Improvements
- Metering to Inform (MTI) estimates and Metering to Verify (MIV) to document results

- 152 projects
- 32 million kWh, 3.75 aMW
- Aerospace, Biotech, Food Processing, Timber, Pulp and Paper, Glass, Aggregates and Concrete, Manufacturing, Water/wastewater
- Measures included compressed air projects, insulation, lighting, ASDs, M/G set replacements;
- Other process improvements to reduce BHp or runtime

Increasing Focus on Industrial in 2010
Existing: (2) 40 HP Brush rotors (43.44 kW)  
380,534 kWh/Yr

Installed: (1) 50 HP K-Turbo / Sanitaire Diffusers  
(17.12kW)  
Anticipated use is 150,000 kWh/Yr

Est. Min Savings Per Year/ 8760 Hrs Operation  
Projected 230,534 kWh/Yr or 61% of original load

- $.07 Avg rate per kWh for C&I customers  
schedule 20 medium load
- $15,970.70 per year Savings
- Snohomish PUD Incentive $39,171

- Expanded focus on compressed air efficiency in 2000; hired engineer with efficiency expertise
- Completed 167 projects, average size 192,000 kWh
- 32,020,000 kWh, 3.65 aMW, $2,241,398 in avoided utility expense by customers
- Aerospace, Biotech, Food Processing, Printing, Timber, Pulp and Paper, Glass, Aggregates and Concrete, Instrumentation, Manufacturing, Water/wastewater
- Systems approach including VFD’s on compressors; cycling air dryers, adequate storage; recommend leak detection
Concrete and Aggregate Case Study – Smith Island Hot Mix and Recycle Plant

- 5/06 – Install pipe insulation on exposed piping carrying heated oil - 235,000 kWh/yr ($16,500) savings; Three month payback after incentive
- 12/06 – Installation complete on 60 HP VS compressor, 660 gallon storage receiver and 250 SCFM cycling air dryer. 43% reduction of CA power compared to prior system 19.5 kW average pre; 8.4 kW post install
- Installations pre/post metered for verification – combined estimated 396,000 kWh savings/year
- $31,000 Utility incentives; $28,000 annual savings/avoided cost to customer
Measures for Success -- Our Message to Customers

- Contact us early – bring us your ideas, we’ll be glad to work with you; ongoing relationship is key
- Include us in project meetings
- Provide documents that describe your project including bids, submittals, drawings, etc.
- Keep in touch from project development through installation
- Note that Authorization is required prior to project installation

Snohomish County PUD

Public Utility District No. 1

Be a Conservation Sensation
Thank You…….

C&I Contacts

C&I Manager, Jim West

Program Managers:

- Rick Allen, Rebate Programs
  - 425-783-1772
- Alan Budman, New Construction
  - 425-783-8282
- Sinh Tran, Existing Buildings
  - 425-783-8248

Business Services

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  - 425-783-1703

- Field Engineers
  - Jim Conlan
  - Steve Forck
  - Dave Hunt
  - Jewon Kim
  - Ronn Larpenteur
  - Patrice Lundquist
  - Jim McDougal
  - Ken Satre

www.snopud.com
Regional Resource Handbooks

- These handbooks are easy-to-read collections of incentives and resources to help industry improve its energy efficiency.
- Information is available at the national, regional, and local levels.
- Collaborative data collection effort from DOE, resource providers, power administrations, and state energy offices among others.
- Southeast and Midwest are completed, West is in review, and Northeast is in progress.
Locating the Resources

Indexed by:
- Geography
  - Nation, region, state
- Type of Assistance
  - Analysis tools, energy audits, financial assistance, incentive program, rebate program, technical assistance, and training

Sorted by:
- Resource Provider
  - Government
  - Utility
  - Non-profit Organizations
    - Local/Regional Initiatives
    - Clean Energy Application Centers
    - Industrial Assessment Centers
  - Private Programs
Federal and National Programs

A variety of federal and national organizations offer incentives and resources to help industrial manufacturers lower their energy intensity and consumption.

Government

Internal Revenue Service

Biodiesel Income Tax Credit

- Federal Tax Credit
- Compare that you biodiesel fuel into a vehicle or use biomass in your business vehicles are eligible for a tax credit of $1.00 per gallon.

Learn More:
- Energy Tax Credit
- 202-622-3180

Corporate Tax Credit

- Federal Tax Credit
- In addition to using a tax credit for the production of biogas, a non-profit organization or non-industrial manufacturer may receive a tax credit of 10 percent for the production of biogas.

Learn More:
- 598-351-4933

Biorefinery Assistance Loan Guarantee

- Biorefinery Assistance Loan Guarantee
- This program provides grants and loans to small businesses in rural communities that are interested in creating biorefineries.

Learn More:

Business and Industry Guaranteed Loans

- Energy Loan Program
- The loan can be used for the purchase of fuel cells, solar panels, or geothermal systems.

Learn More:
- 598-351-4033

Energy Efficiency Improvements Loan

- Federal Tax Credit
- Loans are available for the purchase of renewable energy systems, energy savings, and energy efficiency projects.

Learn More:
- John H. Augustine
- 413-366-4230
- https://www.energy.gov/energy/loansupport

- EnergyStar Program
- Energy Star is a joint initiative of the U.S. Department of Energy and EPA to increase the implementation of energy efficient office equipment and technologies.

Learn More:
- National Resources
- http://wwwenergystar.gov/energy/loansupport.html

- U.S. Department of Energy
- Loans are available for the purchase of renewable energy systems, energy savings, and energy efficiency projects.

Learn More:
- Charles Johnson
- 598-351-4033

U.S. Environmental Protection Agency (EPA)

- Clean Construction USA Loans
- Loans are available for the purchase of renewable energy systems, energy savings, and energy efficiency projects.

Learn More:
- 598-351-4033
State Chapters

• Each chapter provides an overview of industry including:
  – Percent of GDP
  – Total employment
  – Top industries by value of shipments
  – Energy consumption

• Chapters also provide an overview of state policies pertaining to energy efficiency or renewable energy generation.
Sample Listing

American Public Power Association

Energy Efficiency Resource Central

Technical Assistance

APPA offers technical assistance for its member utilities to help their key industrial customers improve their energy efficiency.

Learn More:
Ursula Schryver
202-467-2980
USchryver@APPAnet.org
http://www.appanet.org/utility/utility.cfm?ItemNumber=27923&navItemNumber=27027
Appendix

• Information on ESCOs

• Information by state on available small financial programs including load management, water heater, and heat pump rebates

• Set up in the same format as main entries.
How to Obtain a Copy of the Handbook

- Individual resource guides with state-specific information are available.
- Each state-specific Handbook will also contain national and regional information.
- E-mail me if you would like a state-specific copy or if you would like an entry to be added or updated.


A repository of nearly 3,000 energy incentives, tools, and resources for industrial managers at the national, state, county, local, utility, and non-profit levels. This database is updated every six months, with the most recent update in March 2010.

http://www1.eere.energy.gov/industry/states/state_activities/incentive_search.aspx
Search Functions

Geography

Resource Type

Energy Type

Program Sponsor

Industrial System

Search
Sample Results

Search Criteria:
You Searched:
Region and/or State: California

287 result(s) found

California:
AMP Solar Rebate Program
Alameda Municipal Power (AMP) is offering $4.2 million in rebates over a 10 year period to customers that install solar photovoltaic (PV) systems. Rebates are available to all residential and commercial customers on a first-come, first-served basis. Participants will be required to undergo a free AMP energy efficiency audit, accept the terms and conditions in the AMP Interconnection and Purchase Agreement, and obtain necessary building permits from the City of Alameda.
Program Sponsor: Alameda Power and Telecom

Business Energy Audits
Alameda Power and Telecom offers free energy audits for business customers and shows ways to reduce electric use.
Program Sponsor: Alameda Power and Telecom

Commercial Air Conditioning Rebates
These air conditioning rebates help Alameda businesses to install high-efficiency, properly sized equipment.
Program Sponsor: Alameda Power and Telecom

Commercial Customer Loans
This collaborative program with a local bank offers business customers low-interest loans for approved electric technologies, including energy efficient lighting and charging equipment for electric vehicles.
Program Sponsor: Alameda Power and Telecom

Commercial Lighting Rebates
Lighting rebates are available for T8 fluorescent lamps and electronic ballasts; compact fluorescent, high-pressure sodium, and metal halide lamps; occupancy sensors; and more energy-saving products.
Program Sponsor: Alameda Power and Telecom

Economic Development Incentive
A discount will be applied to all charges under the standard general service rate schedule for which the customer qualifies, exclusive of state or local taxes, for the purpose of business attraction or facility expansion.
Program Sponsor: Alameda Power and Telecom

Key Account Program
Alameda Power and Telecom commercial customers are eligible for grants of up to $10,000 for energy efficient building design and equipment in new construction or other approved unique energy efficient projects.
Program Sponsor: Alameda Power and Telecom

Meter Lending Program
Commercial customers can borrow a meter reader to analyze how much energy is being consumed by certain pieces of equipment and appliances.
Program Sponsor: Alameda Power and Telecom

Commercial Permit Fee Waiver
Permit fees will be waived up to $5,000 for Anaheim businesses that upgrade buildings with energy efficient equipment.
Program Sponsor: Anaheim Public Utilities

Commercial Solar Energy Program
Anaheim Public Utilities offers businesses an incentive for the installation of commercial photovoltaic (PV) systems. By installing a PV system, businesses can offset utility consumption with emission-free renewable generation.
Program Sponsor: Anaheim Public Utilities
Thank You!

For more information:

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To receive a flyer describing the remaining webinars in this series or for answers to additional questions, please email Ryan Harry at rharry@bcs-hq.com.

Questions?