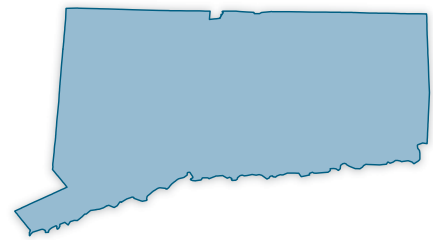




Department of Energy Recovery Act State Memos

Connecticut



For questions about DOE's Recovery Act activities, please contact the DOE Recovery Act Clearinghouse:
1-888-DOE-RCVY (888-363-7289), Monday through Friday, 9 a.m. to 7 p.m. Eastern Time
<https://recoveryclearinghouse.energy.gov/contactUs.htm>.

All numbers and projects listed as of June 1, 2010

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American Recovery and Reinvestment Act



U.S. DEPARTMENT OF ENERGY • CONNECTICUT RECOVERY ACT SNAPSHOT

Funding for selected DOE projects: \$169.5 million

DOE Recovery Act projects in Connecticut: 46

Clean energy tax credits and grants: 148

For total Recovery Act jobs numbers in Connecticut go to www.recovery.gov

The American Recovery & Reinvestment Act (ARRA) is making a meaningful down payment on the nation's energy and environmental future. The Recovery Act investments in Connecticut are supporting a broad range of clean energy projects, from energy efficiency and the smart grid to alternative fuels and geothermal energy. Through these investments, Connecticut's businesses, universities, non-profits, and local governments are creating quality jobs today and positioning Connecticut to play an important role in the new energy economy of the future.

EXAMPLES OF CONNECTICUT FORMULA GRANTS

Program	State Energy Program	Weatherization Assistance Program	Energy Efficiency Conservation Block Grants	Energy Efficiency Appliance Rebate Program
Award (in millions)	\$38.5	\$64.3	\$24.7	\$3.4
	The Connecticut State Office of Policy and Management has received \$38.5 million in State Energy Program funds to invest in state-level energy efficiency and renewable energy priorities.	The State of Connecticut has received \$64.3 million in Weatherization Assistance Program funds to scale-up existing weatherization efforts in the state, creating jobs, reducing carbon emissions, and saving money for Connecticut's low-income families. Over the course of the Recovery Act, Connecticut expects to weatherize approximately 7,500 homes. The program also includes workforce training and education as part of the state's efforts to develop a green workforce.	Twenty-nine communities in Connecticut have received a total of \$24.7 million for Energy Efficiency and Conservation Block Grants (EECBG) to develop, promote, implement, and manage local energy efficiency programs.	The Connecticut State Office of Policy and Management has received \$3.4 million for the Energy Efficient Appliance Rebate Program, which offers consumer rebates for purchasing certain ENERGY STAR® appliances. These energy efficient appliances reduce energy use and save money for families, while helping the environment and supporting the local economy.

EXAMPLES OF CONNECTICUT COMPETITIVE GRANTS AND TAX CREDITS

Award	\$110.4 million	\$13.2 million	\$9.2 million	\$5.3 million	\$6.9 million
	United Technologies Corporation's plant in Middletown was awarded a clean energy manufacturing tax credit for \$110.4 million to produce a more energy-efficient jet engine known as "Pure Power PW 1000G."	Greater New Haven Clean Cities Coalition, Inc. in New Haven was awarded \$13.2 million to deploy CNG and LNG vehicles, develop alternative fueling sites, and install electric chargers, which will reduce dependence on petroleum and limit carbon pollution.	The Connecticut Municipal Electric Energy Cooperative was awarded \$9.2 million under the Smart Grid Investment Grant program to build a regional smart meter network infrastructure that will allow customers to better control their electricity use.	UTC Power Corp. in South Windsor was awarded a clean energy manufacturing tax credit for \$5.3 million . Funds will be used for a new manufacturing facility that will produce a clean, efficient, and reliable fuel-cell power plant.	Connecticut received one hundred and forty-three 1603 payments for renewable energy generation totaling \$6.9 million , which include solar projects. For example, Solaire Development, LLC received \$2.5 million for a solar project.

Funding Allocation Table (Figure 1)

Total dollar amounts in this document are accurate as of June 1, 2010. Please note that Recovery Act Programs are ongoing and the dollar amounts are subject to change. Recipient locations are based on project sites rather than recipients' headquarters locations.

Recovery Act Pillar	Flagship Program Names & Funding Type ¹	Number of Selections	Selected Amount (in millions) ²
Energy Efficiency	<i>Weatherization Assistance Program (F)</i>	1	\$64.3
	<i>State Energy Program (F)</i>	1	\$38.5
	<i>Energy Efficiency and Conservation Block Grant (F)</i>	29	\$24.7
	<i>Energy Efficient Appliance Rebate (F)</i>	1	\$3.4
	<i>Industrial Energy Efficiency (CM)</i>	1	\$1.2
	<i>Additional Programs (CM & C)</i>	1	\$0.1
	TOTAL Energy Efficiency	34	\$132.2
Renewable Energy	<i>Geothermal (CM)</i>	3	\$4.3
	TOTAL Renewable Energy	3	\$4.3
Electric Grid	<i>Smart Grid Investment and Demonstrations Project (CM)³</i>	1	\$9.2
	<i>State and Local Energy Assurance and Regulatory Assistance (F)</i>	3	\$1.6
	TOTAL Electric Grid	4	\$10.8
Transportation	<i>Advanced Battery Manufacturing (CM)</i>	1	\$5.0
	<i>Clean Cities Alternative Fuel and Vehicles Program (CM)</i>	1	\$13.2
	TOTAL Transportation	2	\$18.2
Carbon Capture and Storage	<i>CCS Projects (CM)</i>	1	\$1.6
	TOTAL Carbon Capture and Storage	1	\$1.6
Science and Innovation	<i>Advanced Research Projects Agency - Energy (ARPA-E) (CM)</i>	1	\$2.3
	<i>Small Business Research (SBIR/STTR) (CM)</i>	1	\$0.1
	TOTAL Science and Innovation	2	\$2.4
TOTAL - DOE Programs⁴		46	\$169.5
Tax Credits/ Programs ⁵	<i>Payments for Renewable Energy Generation in Lieu of Tax Credits (1603)</i>	143	\$6.9
	<i>Clean Energy Manufacturing Tax Credits (48C)</i>	5	\$120.9
	TOTAL Tax Incentives	148	\$127.8
TOTAL - DOE/Treasury + DOE		194	\$297.3
¹ F=Formula Grant, CM=Competitive Grant, C=Contract			
² "Selected" indicates DOE has selected a potential funding recipient, which begins the process of negotiating an agreement. This does not necessarily indicate that a final agreement has been reached.			
³ Projects may cross state boundaries, signifies HQ location.			
⁴ Total does not include administrative funds.			
⁵ Jointly administered by DOE and the U.S. Department of Treasury.			

ENERGY EFFICIENCY – 34 projects totaling \$132.2 million

Helping millions of American families cut utility bills by making homes and appliances more energy efficient, expanding the home efficiency industry in sales and manufacturing. For more information, visit <http://www.energy.gov/recovery/energyefficiency.htm>.

Award(s): \$64.3 million, Weatherization Assistance Program (WAP)

Location: Statewide

Connecticut received \$64.3 million in Weatherization Assistance Program funds to scale-up existing weatherization efforts in the state, create jobs, reduce carbon emissions and save money for Connecticut's low-income families. Over the course of the Recovery Act, Connecticut expects to weatherize approximately 7,500 homes. The program also includes workforce training and education as part of the state's efforts to develop a green workforce. Energy audits are performed on each unit to determine the weatherization measures to be installed. Typical measures include health and safety inspections, heating system tune-ups and repairs, attic and side-wall insulation, blower guided air-sealing to reduce drafts and in limited cases, storm windows, window and door repairs or replacement.

Award(s): \$38.5 million, State Energy Program (SEP)

Location: Statewide

The Connecticut State Office of Policy and Management received \$38.5 million in State Energy Program (SEP) funds to invest in state-level energy efficiency and renewable energy priorities. Connecticut is using its Recovery Act SEP funding to create and protect green jobs and initiate energy saving projects such as in-home energy audits and alternative-fuel vehicles. The state is also using funds to support four Clean Cities coalitions: Greater New Haven, Clean Cities of Southwestern Connecticut, Norwich Clean Cities and Capital Clean Cities. These Clean Cities coalitions support efforts to facilitate the adoption of alternate fuels and petroleum-reducing technologies in Connecticut. Connecticut is also launching training programs for building energy code compliance and building operators. The state is establishing a grant program to install fuel cells in combined heat and power applications.

Award(s): 28 totaling \$24.7 million, Energy Efficiency and Conservation Block Grant Program (EECBG)

Locations: Statewide

Recipients: Bridgeport, Bristol, Danbury, East Hartford, Enfield, Greenwich, Hamden, Hartford, Manchester, Mashantucket Pequot Tribal Nation, Meriden, Middletown, Milford, New Britain, New Haven, Norwalk, Norwich, Connecticut State Office Of Policy And Management, Shelton, Southington, Stamford, Stratford, Torrington, Fairfield, Groton, Wallingford, Waterbury, West Hartford, West Haven

Twenty-eight communities in Connecticut received a total of \$24.7 million for the Energy Efficiency and Conservation Block Grants Program (EECBG) to develop, promote, implement and manage local energy efficiency programs.

Connecticut is using its Recovery Act EECBG funding to help communities implement policies and projects that will focus on efficiency, conservation, renewable fuels development and greenhouse gas reductions. These measures are expected to create hundreds of jobs statewide. Connecticut's

funding is being administered by the state energy office, which will pass along 90 percent of the EECBG dollars to local cities and counties that were not eligible for direct formula funding from DOE. The remaining 10 percent of the state's funding will be awarded competitively under a "Regional Projects Energy Grant Program" to support municipalities that choose to partner together at a regional level to reduce fossil fuel emissions and total energy use, improving energy efficiency in key economic sectors.

Award(s): \$3.4 million, Energy Efficient Appliance Rebate Programs

Location: Statewide

The Connecticut State Office of Policy and Management received \$3.4 million for the Energy Efficient Appliance Rebate Program, which offers consumer rebates for purchasing certain ENERGY STAR® appliances. These energy efficient appliances reduce energy use, saving money for families, helping the environment and supporting the local economy. Rebates are available to consumers for qualified appliances installed in Connecticut residences. Appliances qualifying for rebates include refrigerators, clothes washer, freezers, air conditioners and central cooling systems.

Award(s): \$1.2 million, Advanced Materials RD&D in Support of EERE Needs to Advance Clean Energy Technologies and Energy-Intensive Process R&D

Location: Danbury

Fuelcell Energy, Inc., in Danbury received \$1.2 million to develop a micro-channel high-temperature recuperator for fuel cell systems.

Award(s): \$147,000, Ground Source Heat Pumps

Location: West Hartford

The University of Hartford in West Hartford received \$147,000 to develop an integrated system simulation and design model for hybrid Ground Source Heat Pump (GHP) systems designed to effectively balance ground thermal loads.

RENEWABLE ENERGY – 151 projects totaling \$132.1 million

Developing the clean renewable resources in order to double our supply of renewable energy and boost domestic renewable manufacturing capacity. For more information, visit <http://www.energy.gov/recovery/renewableenergy.htm>.

Award(s): 143 payments totaling \$6.9 million from DOE / Treasury, 1603 Payments for Renewable Energy Generation

Location: Statewide

* For current number of 1603 awards, see the weekly update at: <http://www.treas.gov/recovery/1603.shtml>

- **Solaire Development, LLC, Danbury - \$2.6 million**
Solaire Development, LLC, in Danbury received \$2.6 million for a solar electricity project.
- **CT Solar Leasing, LLC, 124 Statewide - \$2.3 million**
CT Solar Leasing, LLC, received \$2.3 million for solar electricity projects.
- **SunE GIL Holdings, LLC, Orange - \$589,000**
SunE GIL Holdings, LLC, in Orange received \$589,000 for a solar electricity project.

- **North Haven Health & Racquet, LLC, North Haven - \$396,000**
North Haven Health & Racquet, LLC, in North Haven received \$396,000 for a solar electricity project.
- **SunE GIL Holdings, LLC, West Hartford - \$210,000**
SunE GIL Holdings, LLC, in West Hartford received \$210,000 for a solar electricity project.
- **Opel, Inc., Plainville - \$179,000**
Opel, Inc., in Plainville received \$179,000 for a solar electricity project.
- **McQuade's Marketplace, Inc., Mystic - \$140,000**
McQuade's Marketplace, Inc., in Mystic received \$140,000 for a solar electricity project.
- **Technology Credit Corporation, Stamford - \$120,000**
Technology Credit Corporation in Stamford received \$120,000 for a solar electricity project.
- **DataComm Services, LLC, 8 Locations Statewide - \$215,000**
DataComm Services, LLC, received \$215,000 for solar electricity projects.
- **C Solar, LLC, Norwalk - \$108,000**
C Solar, LLC, in Norwalk received \$108,000 for a solar electricity project.
- **Abby South, LLC - Southington - \$45,000**
Abby South, LLC, in Southington received \$45,000 for a solar electricity project.
- **Judge's Farm, LLC, Old Lyme - \$33,000**
Judge's Farm, LLC, in Old Lyme received \$33,000 for a solar electricity project.
- **Star Power, LLC, Branford - \$15,000**
Star Power, LLC, in Branford received \$15,000 for a solar electricity project.

Award(s): 5 totaling \$120.9 million from DOE / Treasury, Clean Energy Manufacturing Tax Credit (48C)

Location: Statewide

- **United Technologies Corporation, Middletown - \$110.4 million**
United Technologies Corporation in Middletown received \$110.4 million to re-equip existing Pratt & Whitney manufacturing facilities for the production of a jet engine, the Pure Power PW 1000G. This engine has increased fuel efficiency.
- **UTC Power Corporation, South Windsor - \$5.3 million**
UTC Power Corporation in South Windsor received \$5.3 million to open a new manufacturing focus on the production of clean, efficient and reliable fuel-cell power. This plant will offer more than twice the efficiency of traditional energy sources while maintaining a low sound and emissions profile.

- **Roller Bearing Company of America, Inc., Oxford - \$4.2 million**
Roller Bearing Company of America, Inc., in Oxford received \$4.2 million to produce wind turbine parts, including blade and yaw bearings. The blades are attached to a hub by large pitch bearings which facilitate movement allowing optimal performance in varying wind conditions. Yaw bearings allow the nacelle to be directed into the wind allowing more efficient conversion of wind into electricity. The resulting technologies will aid domestic production of wind turbines and renewable wind energy.
- **STR, Inc., Somers - \$829,000**
STR, Inc., in Somers received \$829,000 to manufacture specially extruded encapsulates that secure solar modules and protect embedded semiconductor circuits. The resulting technologies will aid the domestic solar PV panel manufacturing industry.
- **Acuity Brands, Inc., Wallingford - \$225,000**
Acuity Brands, Inc., in Wallingford received \$225,000 to update a facility with equipment used in the production of energy-saving lighting sensors. Sensors are used to control light levels based on occupancy and are used in day-lighting systems.

Award(s): 3 totaling \$4.3 million, Enhanced Geothermal Systems (EGS) Technology R&D

Locations: East Hartford, Milford

- **United Technologies Research Center, East Hartford - \$1.8 million**
United Technologies Research Center in East Hartford received \$1.8 million to optimize the use of working fluids for binary system power plants, increasing the plant's efficiency and maximizing its output.
- **United Technologies Research Center, East Hartford - \$1.2 million**
United Technologies Research Center in East Hartford received \$1.2 million to optimize a hybrid water / air-cooled condenser in an enhanced turbine geothermal binary system.
- **Gas Equipment Engineering Corporation, Milford - \$1.2 million**
Gas Equipment Engineering Corporation in Milford received \$1.2 million to create an across-the-board analysis of the costs of building and operating a 50 MW EGS power plant. This model will be used to predict future development costs, as well as guide research and financial incentive development.

MODERNIZING THE ELECTRIC GRID – 4 projects totaling \$10.8 million

Harnessing clean energy sources and integrating them onto a modernized electric grid, while giving consumers better choices and more control over their energy use. For more information, visit <http://www.energy.gov/recovery/smartgrid.htm>.

Award(s): \$521,000, Enhancing State and Local Governments' Energy Assurance

Locations: Statewide

The Connecticut Office of Policy and Management received \$521,000 for State Energy Assurance Planning. This project focuses on building regional energy assurance capability by enhancing inter-

and intra- state coordination and cooperation during energy emergencies. The project funds states to update or develop State Energy Assurance Plans incorporating new energy portfolios such as wind, renewables and biofuels. The project also funds cities to update or develop Local Energy Assurance Plans. The two sets of funding are used to hire or retrain staff to build in-house expertise in dealing with Smart Grid technologies, critical energy infrastructure interdependencies and cyber-security.

Award(s): \$9.2 million, Smart Grid Investment Grant Program (EISA 1306)

Location: Statewide

The Connecticut Municipal Electric Energy Cooperative received \$9.2 million to build a regional advanced metering infrastructure (AMI) to enable customers to control electricity use through time-varying rates, advanced two-way meters, control technologies, as well as communications and data management systems.

Award(s): \$839,000, State Assistance on Electricity Policies

Location: New Britain

Connecticut Department of Public Utility Control in New Britain received \$839,000 received to assist in addressing its Recovery Act electricity workload by hiring staff trained to facilitate the review of time-sensitive requests approving electric utility expenditures.

TRANSPORTATION – 2 projects totaling \$18.2 million

Investing in a new generation of advanced fuels and vehicles to reduce our dependence on foreign oil and revitalize domestic manufacturing. For more information, visit <http://www.energy.gov/recovery/vehicles.htm>.

Award(s): \$5 million, Advanced Battery Manufacturing

Location: Waterbury

H&T Waterbury DBA Bouffard Metal Goods in Waterbury received \$5 million to develop a manufacturing process to produce metal outer shell containers for lithium-ion batteries.

Award(s): \$13.2 million, Clean Cities Alternative Fuel and Vehicles (AFV) Grant Program

Locations: New Haven

Greater New Haven Clean Cities Coalition, Inc., in New Haven received \$13.2 million to deploy 163 compressed natural gas (CNG) vehicles and 18 liquid natural gas (LNG) vehicles, develop eight alternative fueling sites and install seven electric chargers.

CARBON CAPTURE AND STORAGE – 1 project totaling \$1.6 million

Developing clean coal technologies so we can utilize America's coal resources sustainably. For more information, visit <http://www.energy.gov/recovery/ccs.htm>.

Award(s): \$1.6 million, Industrial Carbon Capture and Storage Applications

Locations: Danbury

Praxair, Inc., received \$1.6 million to demonstrate capture and sequestration of carbon dioxide emissions from an existing hydrogen-production facility in an oil refinery into underground formations for carbon dioxide enhanced oil recovery. This demonstration will be performed at the BP

refinery, and a lateral pipeline will be built to connect to Danbury's Green Pipeline to transport 1 million tons of carbon dioxide per year.

SCIENCE AND INNOVATION – 2 projects totaling \$2.4 million

Renewing our commitment to science and innovation to ensure global competitiveness in the future. For more information, visit <http://www.energy.gov/recovery/innovation.htm>.

Award(s): \$2.3 million, Advanced Research Projects Agency - Energy (ARPA-E)

Locations: East Hartford

United Technologies Research Center (UTRC) in East Hartford received \$2.3 million to develop membrane technology for separating carbon dioxide from flue gas streams. This process uses synthetic forms of carbonic anhydrase (CA), which natural systems use to manage carbon dioxide.

Award(s): \$150,000, Small Business Innovation Research (SBIR) / Small Business Technology Transfer (STTR) Round 1

Locations: Madison

Magnetic Development, Inc., in Madison received \$150,000 to develop a novel air-conditioning technology that is solar-powered and uses natural refrigerants instead of Freon. The new technology will eliminate ozone depletion and greenhouse gas emissions while reducing electricity use by 90 percent. A residential air conditioner best suited for southern states is being developed first with other applications to follow.

ENERGYEMPOWERS.GOV

Recovery Act Success Stories

Energy Empowers is a U.S. Department of Energy clean energy information service. Our team produces stories featuring the people and businesses that are fueling the energy transformation and economic recovery in America. For more stories from your state, go to energyempowers.gov/Connecticut

WALLINGFORD

Motion and light sensors see boost with manufacturing tax credit

It's a simple concept that's saving thousands of dollars in utility bills each year: when a room is empty, turn off the lights.

This is the basic concept behind Sensor Switch, a Connecticut-based manufacturer of lighting control products. Sensor Switch's occupancy sensor devices turn off lights when spaces are vacant. They also make devices that dim or turn off lights when sufficient daylight is present. Both types of products provide cost effective energy savings in indoor spaces like office buildings and warehouses.

"There's an increasing public demand to save energy, which directly impacts the demand for our products," says Ben Hahn, vice president. "A key part of Sensor Switch's growth plan is increasing its manufacturing capabilities."

Thanks to an Advanced Energy Manufacturing Tax Credit (48C), the company will be expanding its manufacturing capacity sooner by upgrading its electronic automation equipment. These upgrades alone will increase the facility's capacity by up to 30 percent, allowing Sensor Switch to better meet growing customer demands.

With American Reinvestment and Recovery Act funds being used throughout the country for retrofitting buildings and homes, the energy efficient lighting industry—and Sensor Switch itself—has seen significant growth.

Being able to quickly react and serve this increased demand while still keeping our cost down is the formula for capturing more market share," Hahn says.

All Sensor Switch products are designed, engineered, manufactured and assembled at the Wallingford, Conn. facility. Sensor Switch, which was purchased by Acuity Brands in 2009, has been manufacturing in Connecticut since 1987.

"Our whole product line is designed such that it can be cost-effectively manufactured in the U.S. An important part of this strategy relies on using the most advanced equipment available," Hahn says. "Having this equipment allows us to be efficient and stay here in Wallingford."

The Wallingford manufacturing facility currently has several "pick and place" machines that surface mount electronic components onto circuit boards—essentially assembling the populated circuit boards that are used inside all of Sensor Switch's products.

"To reach our next level of capacity, some of our machines need

to be upgraded," Hahn says. "This tax credit allows us to do just that. It's essentially doubling each of the machine's capacity in terms of part placements per hour."

In addition to Sensor Switch components, the Wallingford facility will also be able to manufacture goods for Sensor Switch's parent company, Acuity Brands.

Both Sensor Switch and Acuity are looking forward to the upgrades, says Hahn. "We are an example that manufacturing in America provides a competitive edge; allowing us to remain innovative and meet changing market demands."

KILLINGLY

Internal electrical grid allows Frito-Lay facility to stay online despite outages

A few months ago, the primary electric feed to the Frito-Lay facility in Killingly, Conn., went down. It was the first real-time test for the plant's combined heat and power "grid interconnect" system that had been installed and fully functional since March 2009. So despite the external electric grid failure, the company could keep making its popular snacks.

"We were not connected to the grid at all, but we never went offline," recalls Bob Fitzsimmons, facilities manager at the Killingly plant. "If it hadn't been for the CHP, it would have been eight to 12 hours with no power."

And obviously, for a plant, that would have translated to lost productivity.

The beauty of the CHP system is that it's designed to provide almost 100 percent of the plant's electrical power and over 80 percent of the plant's steam. By independently generating power, the new system helps relieve the heavily burdened electrical power grid in the Northeast region, and it also minimizes the plant's environmental impact by reducing carbon dioxide and nitrous oxide emissions, both harmful greenhouse gases.

The CHP power plant has advantages beyond just the obvious benefits of being able to run independent of the grid. The new system maximizes efficiency by converting waste heat into steam, a useful form of energy that Frito-Lay, a division of PepsiCo, uses to manufacture its snack products onsite.

"What works well for us in the food industry is that we have the right balance of electric and steam load," Al Halvorsen, director of environmental sustainability at Frito-Lay North America, says. "We're producing all the steam for the plant. If we just had a very high electric load and a small steam load, we wouldn't be able to optimize the load on the turbine. We're able to utilize all of the waste steam that the turbine generates."

And using something that would normally be wasted helps companies run a leaner, more efficient business. "Killingly is about 25 percent more efficient than our standard plant," Al says.

The project started in 2006, when the company received a grant

More about 48C

The U.S. Department of Energy and U.S. Department of the Treasury partnered to help fund more than 180 clean energy manufacturing projects through the 48C tax credit. The funds will be used to produce solar panels, wind turbines, geothermal equipment and other clean energy projects—putting the country on track to double capacity to manufacture these components by 2012.

from the state of Connecticut to help make the transition to CHP. The U.S. Department of Energy also aided the project via a contract with the Energy Solutions Center to provide both financial and technical assistance.

The plant, which processes 250,000 pounds of corn and potato snack products per day, is already benefiting from the energy savings. Using the new CHP system, Frito-Lay will reduce overall CO2 emissions by about 5 percent annually.

The energy savings, independence from the grid and avoided environmental costs all supply compelling reasons for other companies to investigate their potential to tap into CHP.

And Al says other facilities within the corporation want to do just that.

“I already have other plants calling me and saying they really want to install a CHP,” he says.