



Department of Energy Recovery Act State Memos

Louisiana



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



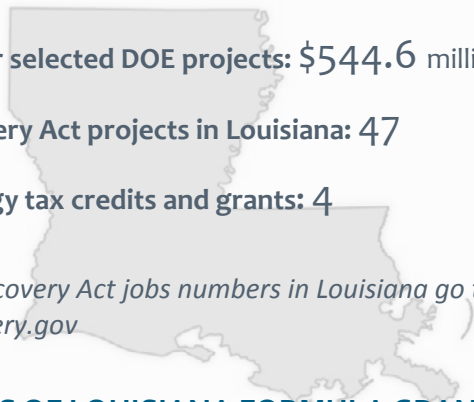
U.S. DEPARTMENT OF ENERGY • LOUISIANA RECOVERY ACT SNAPSHOT

Funding for selected DOE projects: **\$544.6 million**

DOE Recovery Act projects in Louisiana: **47**

Clean energy tax credits and grants: **4**

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



Louisiana has substantial natural resources, including abundant oil, gas, coal, biomass, and hydroelectric power. 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 Louisiana are supporting a broad range of clean energy projects, from energy efficiency and smart grid to solar and geothermal, advanced battery manufacturing and biofuels. Through these investments, Louisiana's businesses, universities, non-profits, and local governments are creating quality jobs today and positioning Louisiana to play an important role in the new energy economy of the future.

EXAMPLES OF LOUISIANA FORMULA GRANTS

Program	State Energy Program	Weatherization Assistance Program	Energy Efficiency Conservation Block Grants	Energy Efficiency Appliance Rebate Program
Award (in millions)	\$71.7	\$50.7	\$34.2	\$4.2
	The Louisiana Department of Natural Resources has received \$71.7 million to invest in state-level energy efficiency and renewable energy priorities.	The Louisiana Housing Finance Agency has received \$50.7 million to scale-up existing weatherization efforts in the state, creating jobs, reducing carbon emissions, and saving money for Louisiana's low-income families. Over the course of the Recovery Act, Louisiana expects to weatherize more than 5,100 homes. The program also includes workforce training and education as part of the state's efforts to develop a green workforce.	Twenty-five communities in Louisiana have received a total of \$34.2 million to develop, promote, implement, and manage local energy efficiency programs.	The Louisiana Department of Natural Resources has received \$4.2 million to offer 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 LOUISIANA COMPETITIVE GRANTS, TAX CREDITS AND LOANS

Award	\$260 million	\$245 million	\$50 million	\$20.6 million	\$20 million
	Leucadia Energy, LLC has been awarded \$260 million to capture and sequester 4.5 million tons of carbon dioxide per year from a new methanol plant in Lake Charles. The carbon dioxide will be delivered via a 12-mile connector pipeline to an existing Denbury interstate carbon dioxide pipeline and sequestered via use for enhanced oil recovery in the West Hastings oilfield.	Red River Environmental Products, LLC was offered a conditional commitment for a \$245 million loan guarantee to build an activated carbon manufacturing facility near Coushatta, Red River Parish, Louisiana. The loan guarantee authority for the project comes from the Energy Policy Act of 2005. The company estimates the project will create just under 600 jobs.	BioEnergy International, LLC in Lake Providence was awarded \$50 million to construct a biorefinery that will produce a key acid through biological processes rather than deriving it from petroleum-based feedstocks.	Novolyte Technologies, Inc. in Zachary was awarded \$20.6 million to manufacture lithium ion electrolyte solutions for use in advanced electric vehicle batteries.	Cleco Power, LLC , in Lake Providence, was awarded a Smart Grid Investment Grant of \$20 million to install a smart metering network for all of the utility's customers – over 275,000 meters – that will enable customer interaction and the automation of the electrical grid's distribution system.

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	\$50.7
	<i>State Energy Program (F)</i>	1	\$71.7
	<i>Energy Efficiency and Conservation Block Grant (F)</i>	25	\$34.2
	<i>Energy Efficient Appliance Rebate (F)</i>	1	\$4.2
	<i>Building Energy Efficiency (CM)</i>	4	\$0.003
	<i>Industrial Energy Efficiency (CM)</i>	2	\$0.7
	TOTAL Energy Efficiency	34	\$161.5
Renewable Energy	<i>Solar (CM)</i>	1	\$0.2
	<i>Geothermal (CM)</i>	1	\$5.0
	TOTAL Renewable Energy	2	\$5.2
Electric Grid	<i>Smart Grid Investment and Demonstrations Project (CM)³</i>	5	\$45.6
	<i>State and Local Energy Assurance and Regulatory Assistance (F)</i>	3	\$1.7
	TOTAL Electric Grid	8	\$47.3
Transportation	<i>Advanced Battery Manufacturing (CM)</i>	1	\$20.6
	<i>Advanced Fuels (CM)</i>	1	\$50.0
	TOTAL Transportation	2	\$70.6
Carbon Capture and Storage	<i>CCS Projects (CM)</i>	1	\$260.0
	TOTAL Carbon Capture and Storage	1	\$260.0
TOTAL - DOE Programs⁴		47	\$544.6
Tax Credits /Payments ⁵	<i>Payments for Renewable Energy Generation in Lieu of Tax Credits (1603)</i>	2	\$0.0
	<i>Clean Energy Manufacturing Tax Credits (48C)</i>	2	\$12.1
	TOTAL Tax Incentives	4	\$12.1
TOTAL - DOE/Treasury + DOE		51	\$556.7
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 \$161.5 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): \$50.7 million, Weatherization Assistance Program (WAP)

Location: Statewide

The Louisiana Housing Finance Agency received \$50.7 million to increase existing weatherization efforts in the state, create jobs, reduce carbon emissions and save money for Louisiana's low-income families. Over the course of the Recovery Act, Louisiana aims to weatherize more than 5,100 homes. The program also includes workforce training and education as part of the state's efforts to develop a green workforce. The Louisiana Housing Finance Agency's (LHFA) mission is to ensure that every resident is granted an opportunity to obtain safe, affordable, energy efficient housing. Considering that high energy costs significantly influence the affordability of housing and often impact the basic subsistence requirement of a household, LHFA is committed to helping decrease the energy burden of low-income households. The Louisiana Annual 2010 Weatherization Assistance Program is being implemented through a partnership between Louisiana Housing Finance Agency and the Louisiana Association of Community Action Partnerships (LACAP). LACAP contracts with local community action agencies and local governmental entities to deliver services to all sixty-four parishes in Louisiana.

Award(s): \$71.7 million, State Energy Program (SEP)

Location: Statewide

The Louisiana Department of Natural Resources received \$71.7 million to invest in State-level energy efficiency and renewable energy priorities. Louisiana encourages business owners to reduce energy consumption by providing rebates for energy efficiency retrofits in commercial buildings. In the residential sector, the program provides incentives to home builders to encourage the construction of new highly energy-efficient homes and provides support for homeowners to improve the efficiency of existing residential properties. Additionally, the state promotes the purchase of new energy-efficient ENERGY STAR® appliances through utility company partners that offer coupons for qualifying appliances. Louisiana is undertaking a "lead-by-example" initiative, which provides funding for energy efficiency retrofits for government buildings, along with funding to encourage the deployment of efficient LED traffic lights and photovoltaic street lighting across the state.

Award: 25 totaling \$34.2 million, Energy Efficiency and Conservation Block Grant Program (EECBG)

Location: Statewide

Recipients: Ascension Parish, Bossier City, Alexandria, Baton Rouge, Shreveport, Jefferson Parish, Jena Band of Choctaw Indians, Kenner, Lafayette City Parish Consolidated Government, Lafourche Parish, Lake Charles, Livingston Parish Council, Monroe, Louisiana Department of Natural Resources, New Iberia, New Orleans, Ouachita Parish, Calcasieu Parish, Rapides Parish, St Landry Parish, St Tammany Parish, Tangipahoa Parish Council, Chitimacha tribe of Louisiana, Tunica-Biloxi Tribe of Louisiana, La Coushatta tribe of Louisiana

Twenty-five communities in Louisiana received a total of \$34.2 million to develop, promote, implement and manage local energy efficiency programs.

Louisiana is using its Recovery Act EECBG funds to advance a wide variety of energy goals, including energy efficient transportation lighting, alternative fuels development, renewable energy and building energy code enforcement in cities and parishes across the state. These projects are leading to substantial energy and cost savings and creating or retaining green jobs statewide. Louisiana initially made a population-based allocation to all parishes, incorporating cities that did not receive a direct DOE allocation. Additionally, Louisiana is developing a funding allocation strategy to equitably distribute funds to all citizens of the state on a per capita basis.

Award(s): \$4.2 million, Energy Efficient Appliance Rebate Programs

Location: Statewide

The Louisiana Department of Natural Resources received \$4.2 million to offer consumer rebates for purchasing certain ENERGY STAR appliances. These energy efficient appliances reduce energy use and save money for families, while supporting the local economy. This funding assists state-level rebate programs by paying up to 50 percent of the administrative costs of establishing and executing these types of programs. Though states and territories determine the appliances which apply, typically those include clothes washers, dishwashers, refrigerators, freezers, air conditioners and water heaters.

Award(s): 4 totaling \$3,200, Buildings and Appliance Market Transformation

Location: Baton Rouge

Shopperschoice.com, LLC, in Baton Rouge, received four grants totaling \$3,200 for Buildings and Appliance Market Transformation. The Buildings and Appliance Market Transformation project expands building codes, accelerates the pace of Appliance Standard test procedure development and improves the efficiency of commercial buildings' operations by training building operators and commissioning agents.

Award(s): 2 totaling \$700,000, Industrial Assessment Centers and Plant Best Practices

Location: Baton Rouge, Lafayette

- **Louisiana Department of Natural Resources, Baton Rouge - \$600,000**

The Louisiana Department of Natural Resources in Baton Rouge received \$600,000 for the Industrial Assessment Centers and Plant Best Practices program. Funds are being used to promote carbon management and reduce environmental impacts by providing plants with access to proven technologies, energy assessments and software tools.

- **University of Louisiana, Lafayette - \$100,000**

The University of Louisiana in Lafayette received \$100,000 for the Industrial Assessment Centers and Plant Best Practices program. Funds are being used to provide eligible small- and medium-sized manufacturers with no-cost energy assessments. The program also serves as a training ground for the next generation of energy-savvy engineers.

RENEWABLE ENERGY – 6 projects totaling \$17.3 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): 2 payments totaling \$25,000 from DOE / Treasury, 1603 Payments for Renewable Energy Tax Credits

Location: Houma, Covington

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

Louisiana received two 1603 payments for renewable energy generation totaling \$25,000 for solar electricity projects.

- **Solar Finance of Louisiana, Houma - \$21,000**
Solar Finance of Louisiana in Houma received \$21,000 for a solar electricity project.
- **Haber Services, Inc., Covington - \$5,000**
Haber Services, Inc., in Covington received \$5,000 for a solar electricity project.

Award(s): 2 totaling \$12.1 million from DOE / Treasury, Clean Energy Manufacturing Tax Credits (48C)

Location: Lake Charles

- **Shaw Modular Solutions, LLC, Lake Charles - \$10.8 million**
Shaw Modular Solutions, LLC, in Lake Charles received a clean energy manufacturing tax credit of \$10.8 million to fabricate modules used in advanced, passively-safe nuclear stations. These stations avoid greenhouse gas (GHG) emissions and the resulting product aids the domestic nuclear energy industry.
- **PPG Industries, Inc., Lake Charles - \$1.3 million**
PPG Industries, Inc., in Lake Charles received a clean energy manufacturing tax credit of \$1.3 million to manufacture Hi Sil 190 G and Hi Sil HDP 320 G highly dispersible silica with the intention of selling it to tire manufacturers. The product, when incorporated into the rubber, creates a tire with reduced rolling resistance which increases vehicle fuel efficiency.

Award(s): \$5 million, Geothermal Demonstrations

Location: Sweet Lake

Louisiana Tank, Inc., in Sweet Lake, received a clean energy manufacturing tax credit of \$5 million for Geothermal Demonstrations to show the feasibility of a geo-pressured power plant in Cameron Parish.

Award(s): \$220,000, High-Penetration Solar Deployment

Location: New Orleans

New Orleans received \$220,000 for High-Penetration Solar Deployment to create guidelines that help public entities and tax-exempt institutions take advantage of the state tax credit via third-party financing. The city is also implementing a sustainable energy financing program, allowing customers

to pay-off solar systems through a long-term assessment on their property tax bills.

MODERNIZING THE ELECTRIC GRID – 8 projects totaling \$47.3 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): \$805,000, Enhancing State and Local Governments' Energy Assurance

Location: Baton Rouge

Baton Rouge is building regional energy assurance capabilities by enhancing inter- and intra-state coordination and cooperation during energy emergencies. This project funds states to update and develop State Energy Assurance Plans that incorporate new energy portfolios such as wind, renewables, biofuels, etc. This program also funds cities updating and developing Energy Assurance Plans within local areas. The two sets of funding are being used to hire or retrain staff in, building in-house expertise in the areas of Smart Grids, critical energy infrastructure interdependencies and cyber-security.

- **Louisiana Department of Natural Resources, Baton Rouge - \$605,000**
The Louisiana Department of Natural Resources in Baton Rouge received \$605,000 for Enhancing State and Local Governments' Energy Assurance to enhance inter- and intra-state coordination and cooperation during energy emergencies.
- **City of Baton Rouge - \$200,000**
City of Baton Rouge received \$200,000 for Enhancing State and Local Governments' Energy Assurance to enhance inter- and intra-state coordination and cooperation during energy emergencies.

Award(s): 5 totaling \$45.6 million, Smart Grid Investment Grant Program (EISA 1306)

Location: Statewide

- **Cleco Power, LLC, Pineville - \$20 million**
Cleco Power, LLC, in Pineville received a Smart Grid Investment Grant of \$20 million to install a smart metering network for all of the utility's customers. This metering network enables customer interaction, the automation of the grid's distribution system and includes the installation of over 275,000 meters.
- **Lafayette Consolidated Government, Lafayette - \$11.6 million**
Lafayette Consolidated Government in Lafayette received a Smart Grid Investment Grant of \$11.6 million. These funds are allocated for an Advanced Metering Infrastructure (AMI) installation, a customer system that includes load control and demand response applications, as well as a distribution and transmission Supervisory Control and Data Acquisition (SCADA) System.
- **Entergy New Orleans, Inc., New Orleans - \$5 million**
Entergy New Orleans, Inc., in New Orleans received a Smart Grid Investment Grant of \$5 million for the installation of 11,500 residential electric AMI meters and 8,250 in-home display devices.
- **Entergy Services, Inc., New Orleans - \$4.6 million**

Entergy New Orleans, Inc., in New Orleans received a Smart Grid Investment Grant of \$4.6 million to provide Phasor Measurement Unit (PMU) infrastructure. This infrastructure is operations-hardened and robust enough to provide mission-critical decision making.

- **City of Ruston - \$4.3 million**

The City of Ruston received a Smart Grid Investment Grant of \$4.3 million for the development of a fully functioning Smart Grid. This is being accomplished by improving customer systems, electricity distribution and the deployment of AMI and MDMS.

Award(s): \$862,000, State Assistance on Electricity Policies

Location: Baton Rouge

The Louisiana Public Service Commission in Baton Rouge received \$862,000 for State Assistance on Electricity Policies. This project funds states and their Public Utility Commissions (PUCs) to hire staff trained to facilitate the review of time-sensitive requests approving electric utility expenditures undertaken as part of the Recovery Act.

TRANSPORTATION – 2 projects totaling \$70.6 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): \$20.6 million, Advanced Battery Manufacturing

Location: Zachary

Novolyte Technologies, Inc., in Zachary received \$20.6 million to manufacture lithium ion electrolyte solutions for use in advanced electric vehicle batteries.

Award(s): \$50 million, Modify Integrated Biorefinery Solicitation Program for Pilot and Demonstration Scale Biorefineries

Location: Lake Providence

BioEnergy International, LLC, in Lake Providence received \$50 million to construct a biorefinery that uses biological processes petroleum-based feedstocks.

CARBON CAPTURE & STORAGE – 1 project totaling \$260 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): \$260 million, Industrial Carbon Capture and Storage Applications

Location: Lake Charles

Leucadia Energy, LLC, in Lake Charles received \$260 million to capture and sequester four and a half million tons of carbon dioxide per year via a new methanol plant in Lake Charles. The carbon dioxide is being delivered via a twelve mile connector pipeline to an existing interstate carbon dioxide pipeline. It is then sequestered for enhanced oil recovery in the West Hastings oilfield.

Award(s): \$245 million from DOE / Treasury, Loan Guarantee Program

Location: Coushatta

Red River Environmental Products, LLC, was offered a conditional commitment for a \$245 million loan guarantee to build an activated carbon manufacturing facility near Coushatta, Red River Parish and Louisiana. The loan guarantee authority for the project comes from the Energy Policy Act of 2005. The company estimates the project will create just under 600 jobs.

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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/Louisiana

NEW ORLEANS

Warren Easton Senior High now home to largest solar panel system in New Orleans

A high school rooftop once used as a refuge for Hurricane Katrina victims and a military staging area is now home to the largest solar panel system in New Orleans.

Thanks to combined efforts from the local utility company, the city, and the U.S. Department of Energy's Solar America Cities program, 208 "thin-film" adhesive solar panel strips occupy about 4,000 square feet of space on Warren Easton Senior High School's roof. Acting as both a renewable energy source and an interactive learning tool, the installations are expected to generate approximately 37,000 kilowatt-hours of solar-powered electricity every year and allow students to monitor its output and the school's energy consumption in real-time.

"The negativity of that particular facility and the positivity of the solar installations are in direct contrast," says energy and environmental policy analyst John Moore, a New Orleans native who returned to the city after Katrina to work on green projects for the Office of Recovery Management. This solar project is especially important, symbolizing a new — and greener — beginning for schools in New Orleans, John says.

Warren Easton, which is located in the hurricane-ravaged 3rd District of Orleans Parish, is the first of four schools to receive solar panel systems as part of the New Orleans Solar Schools Initiative. Installation at Joseph A. Craig Elementary in Tremé, which re-opened in January after massive renovations, is currently underway and should be completed by late March. Two more elementary schools are next on the list: William Frantz Elementary in the Upper 9th Ward and Henry Allen Elementary in Uptown.

The systems, which cost from \$250,000 to \$500,000 to install, are being put in by the local firm South Coast Solar. The panels were manufactured by Uni-Solar, a Michigan-based company that produces durable, thin-film photovoltaic laminates.

Supported by nearly \$2 million in funding from the Entergy Corporation and Nike, and managed by the Louisiana Chapter of the United States Green Building Council, the projects supply power and help students learn about solar energy. Linked software in the classrooms let students monitor how much energy has been generated and consumed by the school.

A visit to the Web site revealed that the panels have already generated about 12,000 kwh, which is enough to power a typical residential home for one year, and prevented over 14,000 pounds of greenhouse gases from being emitted into the atmosphere.

The renewable energy projects don't stop there for John, though. He hopes the five new libraries set for construction throughout New Orleans will be equipped with solar panel systems and "solar-learning kiosks," which would allow people to track energy output.



View of the solar panel system atop Warren Easton Senior High School in New Orleans

He says the libraries, which are funded in part by federal stimulus dollars from the Energy Efficiency and Conservation Block Grant program totaling \$1.3 million, will include motion sensor lights, upgraded heated and cooling systems, and insulation for better energy efficiency.

"We are looking to step our game up with the green buildings [in New Orleans]," John says. "We want to have a more meaningful impact in the community."

HAMMOND

LEDs ready for takeoff at Louisiana airport

Energy efficiency is taking off at the airport in Hammond, La., about 70 miles north of New Orleans.

About 250 lights along the busy taxiway at Hammond Northshore Regional Airport are being replaced with light-emitting diodes (LEDs) with funds from an Energy Efficiency and Conservation Block Grant (EECBG) from the U.S. Department of Energy.

The effort in Tangipahoa Parish's largest city will save the airport between \$10,000 to \$15,000 a year on electric bills, cut down on energy use and solve a lingering problem for aviation officials.

A five year question answered

The airport is replacing inefficient, incandescent lamps on the taxiway. The lights had to be replaced often. To maximize the efficiency of the lights, the airport considered two scenarios: keep the taxiway lights on all night or shut them down and only turn them on for landings.

"It's been the question for the last five years," says airport manager Jason Ball. "Do you choose to pay the electric bill for leaving them on all night, or do you take the chance, shut them off and end up blowing more bulbs when you fire them up again?"

After the LEDs are installed, airport officials won't have to make that choice. LEDs have a greater life expectancy than conventional incandescent lamps, which Ball says were replaced about every six months. The LEDs for the airport can last up to 200,000 hours, about 23 years.

"I don't think we'll change them for a long time—probably not as long as I'm here," Ball says.

Ball says the electric bill for the airport is about \$40,000 a year and hopes to shave about \$10,000 to \$15,000 off of that after the new LEDs are installed. Replacing the transformers with more energy-efficient ones is next on the list and will save the airport even more money, Ball says.

Air traffic consists of mainly corporate jets and small, recreational aircraft. The airport sees about 250 landings and 250 take offs each day.

Parish share

The parish allocated the funds—along with another EECGB award from the Louisiana state energy office worth \$300,000—to its eight municipalities. Most of the energy upgrades will be performed on government buildings.

John Dardis, the grant administrator for Tangipahoa Parish, says the grant is having a positive impact on local communities.

"The money is increasing our capability to deal with it [wasting energy], but the biggest benefit is awareness," Dardis says. "Some of these little towns probably never thought about conservation. Now their level of energy awareness is being increased."

Louisiana non-profit receives boost for weatherization program

Change is in the air at SMILE Community Action Agency. The non-profit received a \$3 million American Reinvestment and Recovery Act grant for its weatherization program. With the needed boost in funding Louisiana-based SMILE can increase its reach.

SMILE targets five unique parishes, helping locals conserve energy and save money. Venice Roberts, who both coordinates and implements SMILE's weatherization program says there's been a surge in interest and applications, "Everything has changed tremendously. There's been an abundance of people calling about weatherization."

SMILE plans to use part of the funding to increase their local outreach. Venice says more frequent town hall forums will help SMILE promote the benefits of weatherization. By increasing awareness SMILE hopes to make experiences like that of client Sheila Sturgis a reality for more residents.

Sheila is one of many local residents who've participated in SMILE's weatherization program. Her home in Scott has been upgraded with insulation, caulking, solar screens on the windows, and low-flow faucets.

"It was a very good experience, they did a good job and were professional" says Sheila of the weatherization work done on her home. Sheila says after the upgrades her energy bill has decreased by 20 percent, "It's really saving us a lot of money." She adds "I would recommend it to others and yes I have passed it along."