U.S. Department of Agriculture
Rural Development

The Impact of the Rural Energy for America Program on Promoting Energy Efficiency and Renewable Energy

March 2012

USDA Rural Development

Committed to the future of rural communities.

Message from the Secretary

America needs and is developing a reliable, sustainable, fuel supply. If we are able to produce more of it here at home – rather than relying on foreign oil – we'll generate good, middle-class jobs and strengthen our economy in the long run. That is why the U.S. Department of Agriculture (USDA) and the Obama administration are working with private industry to pursue an "all-of-the-above" energy strategy to promote American-produced renewable energy, coupled with domestic oil and gas production. The USDA Rural Energy for America Program is an important part of that strategy.

This Administration has helped bring our Nation's reliance on foreign oil to a 13-year low, with domestic oil and gas production that has increased each year since 2009.

Since President Obama took office three years ago, the USDA REAP program has been active in every State:

- Supporting 5,733 renewable energy and energy efficiency projects nationwide;
- Generating or saving enough power to meet the annual needs of 600,000 households;
- Providing $192 million in grants and $165 million in loan guarantees to agricultural producers and rural small business owners for renewable energy systems and energy efficiency improvements.

One of the goals of REAP is to tap into the entrepreneurial spirit of rural America through renewable energy and energy efficiency programs. Through our efforts, these small businesses are creating good-paying, sustainable jobs that will improve the quality of life in rural communities.

I hope you find this report about all the innovative products Americans have developed - with USDA support useful. Through this work, REAP has also been fostering partnerships that have leveraged an estimated $800 million from other sources for these energy projects. We know we can't improve our energy security alone – it takes all of us working together, tackling the long-term problem of building an American energy economy that will ensure that families don't fall victim to skyrocketing gas prices while creating jobs to strengthen the middle class.

Sincerely,

Thomas J. Vilsack
Secretary

Message from the Under Secretary

Last year, President Obama released a comprehensive, long-term vision to build a clean energy economy that will move the Nation towards energy independence and create high-paying jobs in the United States. In response to the President's call, the U. S. Department of Agriculture (USDA) emerged as a leader in promoting the creation and expansion of renewable energy in rural areas.

Within USDA, the Rural Development's Rural Business-Cooperative program administers four programs specific to energy that promote a cleaner and more sustainable future through investments in advanced biofuels, renewable energy, and energy efficiency. Since 2009, USDA Rural Development has invested $800 million in biorefineries, renewable energy and energy efficiency through the Rural Energy for America Program (REAP), the Biorefinery Assistance Program, the Repowering Assistance Program, and the Advanced Biofuel Payment Program.

REAP is Rural Development's renewable energy program with the most diversification – technologically as well as geographically. In 2011, grants and loan guarantees funded projects in all 50 States and territories for renewable energy systems, energy efficiency improvements, feasibility studies, energy audits, and renewable energy development assistance. The REAP program partners with agricultural producers and rural small businesses to facilitate access to renewable energy systems (such as solar panels or anaerobic digesters), make energy efficiency improvements (such as installing irrigation pumps or replacing ventilation systems), and conduct energy audits and feasibility studies.

At a time when every dollar counts, these investments enable farmers, ranchers and rural small businesses to adjust to fluctuations in energy prices. By doing so, it keeps their operations viable, as well as maintaining and creating jobs.

Rural Development employees work alongside farmers, ranchers, and businesses to strengthen local economies. They are members of the communities they serve and possess expert knowledge of the challenges and opportunities that exist in their regions. Through them, USDA remains committed to building on the progress we have made over the past three years to make rural America more energy secure moving forward.

Sincerely,

Dallas Tonsager
Under Secretary for Rural Development

Message from the Administrator

As Administrator for USDA Rural Development's Rural Business and Cooperative Program, I am proud to present this report which highlights the accomplishments of the Rural Energy for America Program (REAP) and its contribution to the Administration's goal of increased energy independence and energy efficiency.

Since its inception in 2003, REAP and other USDA programs, have helped about 13,000 rural small businesses, farmers, and ranchers save energy and improve their bottom line by installing renewable energy systems and energy efficiency solutions that will save enough energy to power nearly 600,000 American homes for a year. Since 2003, REAP has funded more than 1,000 solar projects and over 560 wind projects. In addition, a first-of-its-kind rule from the Rural Utilities Program will soon be finalized and provide new opportunities for loan and loan guarantees in energy efficiency. This program will attract new businesses and create new jobs in rural areas, encourage the use of renewable energy fuels, and support residential and commercial energy audits.

These successes are possible thanks to the dedicated professionals at our 47 USDA Rural Development State Offices, along with our trained energy coordinators and program specialists who work with our federal, state and local governments, commercial lenders, and partnering organizations to deliver this important program.

Sincerely,

Judith Canales

Judith A. Canales
Administrator

Rural Energy for America (REAP) Overview

USDA contributes to the realization the President's vision for a new era in American energy, with an economy built to last and fueled by homegrown, alternative energy sources. Already, thanks in part to the Obama Administration's investments, the United States has nearly doubled renewable energy generation from wind, solar and geothermal sources since 2008.

For nearly a decade, USDA has focused on increasing access to energy for rural areas. As directed in Section 9006, Title IX, of the Farm Security and Rural Investment Act of 2002, USDA Rural Development established the Renewable Energy Systems and Energy Efficiency Improvements Program to help farmers, ranchers and rural small businesses purchase renewable energy systems and make energy efficiency improvements. In 2008, Congress amended Section 9006 by expanding the agency's authorities and renaming the program the Rural Energy for America Program (REAP).

USDA Rural Development has an important role in helping to build a cleaner, more secure and a more sustainable domestic energy sector for future generations. Through REAP and other programs, USDA has helped about 13,000 rural small businesses, farmers, and ranchers, save energy and improve their bottom line by installing renewable energy systems and energy efficiency solutions.

Specifically, REAP helps agricultural producers and rural small businesses build renewable energy systems and make energy efficiency improvements. At the same time, through other programs, USDA is encouraging a national advanced bio-based economy that creates or retains jobs in rural communities where economic opportunities can be limited.

Since Fiscal Year 2009, USDA Rural Development has funded 5,733 REAP projects in all 50 states, Puerto Rico and the Western Pacific. The financial assistance provided through the program helps improve access and diversity in rural energy and has created an additional 6.5 million MWh for consumers. REAP helps promote economic development and job growth by supporting a wide range of energy-related projects to reduce consumption and costs for agricultural producers and rural small businesses and increases access to local energy generated within the United States.

REAP provides grants, loan guarantees, and a combination of grants and loan guarantees to rural small businesses and agricultural producers to purchase renewable energy systems and to make energy efficiency improvements. REAP also provides grants for feasibility studies for renewable systems, energy audits, and renewable energy development assistance for agricultural producers and rural small businesses.

Components of REAP:

1. The Renewable Energy System and Energy Efficiency Improvement Guaranteed Loans and Grants provide financial assistance to agricultural producers and rural small businesses to purchase, install and construct renewable energy systems and make energy efficiency improvements.

2. Feasibility Grant Studies provide funds to applicants that need to complete a feasibility study, which are required in applications for many Department of Agriculture and other government energy programs.

3. Energy Audit and Renewable Energy Development Assistance Grants provide funds to entities that will assist agriculture producers and rural small businesses by conducting energy audits and providing information on renewable energy development assistance.

To get additional information or to apply for REAP funding, contact your Rural Development State Office or the State Rural Energy Coordinator. A list of the offices is located at the end of this report.

"We're not going to be able to just drill our way out of the problem of high gas prices…If we are going to control our energy future, then we've got to have an all-of-the-above strategy. We've got to develop every source of American energy—not just oil and gas, but wind power and solar power, nuclear power, biofuels."

- President Barack Obama, North Carolina, March 7, 2012

USDA Rural Development's REAP program is an important component of President Obama's Blueprint for Energy Strategy. With less than 2 percent of the world's proven oil reserves, the United States and its territories need to find new ways to produce energy.

In 2011, the United States relied less on foreign oil than in any of the last 16 years, in part because of the investments made by USDA Rural Development. REAP projects throughout rural America have made use of clean renewable energy and supported energy efficiencies and technologies.

REAP – A Sound Investment in Clean Energy

REAP is not only a sound investment in clean energy and productivity, but the program also reduces demand for existing utilities by investing in energy efficiency. REAP invests mostly in projects that produce renewable energy for use on site – otherwise known as distributed generation. Although some projects do produce energy for the grid, most relieve utility congestion. REAP also helps utilities to manage their demand by lowering costs for everyone by deferring demand for additional power facilities. From 2003 through 2011, REAP invested an average of 11.3 cents for every kilowatt-hour of energy generated or saved by the program.

Technology	2009 – 2011 Investments $/kWh
SOLAR	$0.405
HYBRID	$0.200
GEOTHERMAL	$0.092
HYDROPOWER	$0.083
BIOMASS	$0.080
WIND	$0.041
ENERGY EFFICIENCY	$0.029

REAP RES/EEI State Accomplishments (FY 2009 – FY 2011)

States	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Alabama	33	$2,065,255	$593,791	4,491
Alaska	44	$1,105,149	-	7,241
Arizona	31	$1,194,206	-	1,142
Arkansas	93	$1,895,894	$ 132,423	25,744
California	74	$ 3,122,218	$1,886,000	15,306
Colorado	41	$1,735,665	$695,000	6,876
Connecticut	13	$765,181	$454,810	3,527
Delaware	13	$282,716	-	794
Florida	14	$1,166,622	-	27,849
Georgia	217	$6,215,193	$2,902,073	124,779
Hawaii	20	$708,413	$422,200	3,073
Idaho	97	$3,164,592	$1,500,000	64,707
Illinois	287	$8,924,982	$5,438,034	124,237
Indiana	214	$6,640,226	$2,138,714	105,607
Iowa	1,128	$38,431,390	$46,358,749	871,286
Kansas	113	$2,649,590	$1,031,198	70,512
Kentucky	122	$ 3,431,112	$1,777,447	21,710
Louisiana	26	$1,566,755	$1,000,000	556,144
Maine	29	$1,215,064	$1,667,781	47,757
Maryland	30	$1,298,752	-	2,056
Massachusetts	44	$2,265,884	$4,109,251	4,033
Michigan	170	$5,918,164	$923,596	47,144
Minnesota	512	$12,548,264	$5,136,337	994,724
Mississippi	80	$2,035,805	-	32,168
Missouri	113	$3,523,055	$5,985,916	293,211
Montana	24	$951,281	$163,431	11,271
Nebraska	408	$6,693,800	$5,756,579	583,172
Nevada	11	$469,189	-	1,302
New Hampshire	21	$572,093	$509,497	3,742
New Jersey	39	$3,462,317	$1,883,937	2,097
New Mexico	26	$904,740	$850,000	117,971
New York	189	$4,061,747	$1,695,086	24,800
North Carolina	277	$6,136,221	$10,342,500	303,045
North Dakota	45	$1,616,242	$ 730,523	29,875
Ohio	169	$12,264,217	$24,446,326	392,397
Oklahoma	40	$1,313,785	$393,325	12,096
Oregon	119	$3,852,141	$13,158,233	73,331
Pennsylvania	79	$4,776,196	$867,065	136,119

States	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Puerto Rico	10	$602,436	-	103,173
Rhode Island	3	$55,615	-	268
South Carolina	53	$2,110,962	$963,521	27,845
South Dakota	97	$3,545,909	$2,758,772	26,716
Tennessee	98	$4,097,409	$2,500,383	633,936
Texas	94	$4,731,073	-	46,441
Utah	19	$1,952,275	$287,000	30,129
Vermont	97	$3,586,483	$5,422,749	28,857
Virginia	50	$2,603,960	$435,271	32,485
Washington	29	$2,051,796	$ 3,786,500	33,930
West Virginia	25	$802,492	$573,408	1,611
Western Pacific (WP)	2	$53,757	-	269
Wisconsin	142	$4,639,650	$2,852,923	392,932
Wyoming	9	$157,651	-	1,832
Grand Total	5,733	$191,935,584	$ 164,530,349	6,507,759

RES/EEI – Renewable Energy Systems/Energy Efficiency Improvements
1 kilowatt (kW) = 1 thousand watts
1 megawatt (MW) = 1 million watts

Renewable energy is a growing part of our energy sector through a variety of technologies. REAP has funded many projects, as follows:

Renewable Energy Technologies Funded through REAP

Solar Energy Technology				
	Projects	**Grants**	**Loans Guarantees**	**Annual Energy Generation MWh (1,000)**
FY 2011	477	$14,417,465	$6,077,500	31
FY 2009-2011	937	$33,709,107	$17,832,930	162

Wind Power				
	Projects	**Grants**	**Loans Guarantees**	**Annual Energy Generation MWh (1,000)**
FY 2011	55	$2,988,644	$883,483	30
FY 2009-2011	318	$21,252,628	$39,668,057	133

Anaerobic Digester				
	Projects	**Grants**	**Loans Guarantees**	**Annual Energy Generation MWh (1,000)**
FY 2011	19	$7,798,189	$13,102,890	140
FY 2009-2011	52	$17,958,233	$33,732,709	267

Energy Efficiency Improvements				
	Projects	**Grant**	**Loan Amount**	**Annual Energy Generation MWh (1,000)**
FY 2011	1,141	$ 21,842,568	$ 1,317,649	343
FY 2009-2011	4,070	$ 97,393,055	$ 41,850,622	3,287

REAP also invested in the following Energy Efficiency Improvement technologies in 2011:

Energy Efficiency Technology				
Technology	**Number of Projects**	**Grant Amount**	**Loan Guarantee Amount**	**Annual Energy Generation MWh (1,000)**
Poultry Operations	193	$3,673,431	$134,110	8
Grain Dryers	488	$11,712,540	$748,986	13
Lighting Efficiencies	59	586,009	$0	6
Reverse Osmosis Systems	43	$300,811	$ 0	7
Irrigation Systems	217	$2,638,248	$0	9
Building Efficiencies	559	$21,609,252	$1,317,649	15

Flexible Fuel				
	Projects	**Grants**	**Loans Guarantees**	**Annual Energy Generation MWh (1,000)**
FY 2011	66	$4,284,342	0	353

Geothermal Heating and Cooling				
	Projects	**Grants**	**Loans Guarantees**	**Annual Energy Generation MWh (1,000)**
FY 2011	59	$1,288,172	$124,388	31
FY 2009-2011	146	$3,264,002	$645,987	41

Biofuel and Biodiesel				
	Projects	**Grants**	**Loans Guarantees**	**Annual Energy Generation MWh (1,000)**
FY 2011	10	$1,686,861	$ 0	665
FY 2009-2011	24	$3,691,665	$4,826,692	1,161

State Success Stories

Alabama	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	33	$2,023,009	$593,791	4,491
Biomass	6	$717,594	-	1,162
Energy Efficiency	26	$1,162,107	$593,791	3,329
Solar	1	$143,308	-	-

Southern Wholesale Fibers and Recycling

In June 2010, Southern Wholesale Fibers and Recycling of Bryant, Alabama, received a REAP energy efficiency grant and a loan guarantee to purchase and install energy efficiency equipment. The improvements helped the company save 335,000 kWh each year, a 22 percent energy reduction, and save 13 jobs.

Gary Griffin Poultry House

In June 2010, Gary E. Griffin, a poultry grower in Enterprise, Alabama, received a REAP energy efficiency grant to make improvements to six poultry houses. The improvements resulted in a projected annual energy savings of $18,850, or 36.8 percent.

Alaska	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	44	$1,105,149	-	7,241
Biomass	2	$485,316	-	6,332
Energy Efficiency	15	$174,380	-	629
Geothermal	1	$50,000	-	2
Solar	5	$62,920	-	31
Wind	21	$332,533	-	248

D.J. Subdivision

In June 2011, Dorwin Smith (D.J. Subdivision), in Wasilla, Alaska received a REAP grant to upgrade the lights on each of his commercial properties. The energy efficiency project resulted in a 67 percent annual electrical savings.

Alpine Holdings

Alpine Holdings, in Chicken, Alaska, was in need of alternative ways to power its business. In June 2011, the owner used two REAP grants for energy efficiency and solar power improvements. The improvement will help the company save an estimated $10,000 per year and allow the company to retain all of its employees.

Arizona	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	31	$1,194,206	-	1,142
Solar	30	$1,140,706	-	993
Wind	1	$53,500	-	150

Allen's Well Service

In August 2010, Rural Development provided a REAP grant to Allen's Wells Service of Elfrida, Arizona, to install a photovoltaic water pumps at a ranch. The new solar water pumps helped the company cut its utilities costs in half.

Silver Creek Farms

In July 2011, with help from a REAP grant, the owners of Silver Creek Farms near Taylor, Arizona, installed a 155,000 kW wind turbine to power the pump for its irrigation well. The turbine provides all of the electricity needed for the pumping operation. In addition, the ranch owners have a contract with the local utility company to "net meter" or feed power into the utility grid during production months and use power as needed in the off-wind summer months.

Arkansas	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	93	$1,895,894	$132,423	25,744
Biomass	3	$27,830	-	387
Energy Efficiency	84	$1,691,214	$132,423	16,695
Flexible Fuel Pump	1	$39,500	-	8,588
Solar	5	$137,350	-	74

Frost Oil Company

In June 2011, Frost Oil Company of Ozark, Arkansas, received a REAP grant to offset 25 percent of the equipment and installation cost for two flex-fuel pumps. The new gasoline station and convenience store will be located in a travel plaza near Interstate 40. Once the travel plaza is complete, an E85 dispenser and a biofuel dispenser will be available to the public. The plaza will provide 40 new jobs in a city with a population of less than 20,000.

Green Technologies, Inc.

In September 2009, Green Technologies, Inc., in West Fork, Arkansas received a REAP grant to offset the cost of the equipment and installation of a photovoltaic solar panel system. Green Technologies is an engineering and fabrication business specializing in wheelchair fabrication and general machine work.

California	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	74	$3,122,218	$1,886,000	15,306
Biomass	1	$500,000	-	669
Energy Efficiency	3	$31,159	-	185
Flexible Fuel Pump	4	$135,000	-	10,720
Geothermal	1	$18,500	-	5
Solar	61	$2,317,545	$1,816,000	3,429
Wind	4	$120,014	$70,000	298

Lyall Enterprises, Inc.

In July 2010, Lyall Enterprises, Inc. of Pauma Valley, California, received a REAP loan guarantee and a REAP grant to purchase and install a 106.8 KW-AC solar energy system. The new solar system produces approximately 220,000 kWh which is eight percent above estimates. The 1,257,310 kWh of electricity generated from this project is sufficient to provide the annual electricity needs of the ranch's nine irrigation pumps.

Roberti Ranch

Roberti Ranch raises 400 head of beef cattle and produces hay on 5,800 acres in Sierra Valley, California. The company used REAP grant and guarantee loan to finance development of a solar PV system that will help the ranch reduce an electricity bill. The company has also entered into a Power Purchase Agreement with the local electrical cooperative to sell the extra electricity produced by the new solar system. The electricity generated from this project is sufficient to run the ranch's nine irrigation pumps, or enough electricity for 70 homes.

Colorado	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	41	$1,735,665	$695,000	6,876
Energy Efficiency	10	$176,965	-	2,912
Geothermal	3	$350,875	-	344
Hydropower	3	$369,009	$600,000	2,973
Solar	23	$821,875	$95,000	633
Wind	2	$16,941	-	13

Wagon Wheel Associates, Inc. - Hydro Project

In 2011, this 310-kilowatt new hydropower production facility, near Monte Vista Colorado, used a REAP grant and a loan guarantee for a renewable energy project that incorporates the facility with an existing dam to provide power to the grid.

High Country Orchards

Ninety percent of High County Orchard's locally grown fruits and vegetables are sold in Colorado and can be in the consumer's hands within 24 hours of harvest. A big part of the credit for both the product quality and delivery speed goes to the Palisade orchard's state-of-the-art, digitized peach-packing system. In 2011, High Country Orchards used a REAP grant to purchase a solar energy system to power the packing facility.

The solar project will create 49,806 kilowatts annually and reduce the Orchard's energy cost at their fruit packing facility.

Connecticut	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	13	$765,181	$454,810	3,527
Energy Efficiency	3	$260,868	$391,310	2,793
Hydroelectric	1	$275,000	-	585
Solar	9	$229,313	$63,500	148

Grower Direct Farms

Grower Direct Farms, in Somers, Connecticut received a REAP grant and loan guarantee to install a biomass system to heat its green houses. The system reduces annual heating oil consumption by 450,000 gallons. The new system can heat up to 375,000 gallons of water. The company expects the system to pay for itself in five years. By switching to a biomass system fed by wood chips, the annual fuel costs dropped by nearly 70 percent.

Delaware	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	13	$282,716	-	794
Energy Efficiency	5	$96,852	-	587
Solar	8	$185,864	-	207

Clothes 2 You Cleaners

In 2011, Clothes 2 You Cleaners, a minority/veteran owned small business in Rehoboth Beach, Delaware used a REAP grant to install an energy efficient wet cleaning system, washers and dryers that use state-of-the-art technology.

Gambler's Choice Equestrian Center

Gambler's Choice, on 55 acres west of Dover, Delaware, is a full service Equestrian Center and boarding facility. Rural Development provided a REAP grant which enables the business to offset electricity usage with the installation of a 28.52 kw solar array that was roof mounted on a barn in January 2012.

Florida	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	14	$,166,622	-	27,849
Biomass	4	$716,668	-	24,181
Energy Efficiency	5	$109,354	-	1,354
Flexible Fuel Pump	1	$24,650	-	2,031
Solar	4	$315,950	-	283

Nanosonic Products, Inc. – Solar Energy System

Nanosonic Products, Inc., in Alachua, Florida, uses Cyclodextrin chemistries to research unique commercial applications for food, nutritional, environmental, and pharmaceuticals. In 2011, the company used a REAP grant to purchase and install a solar photovoltaic system that will generate 149 percent of the energy needed for the business. The surplus energy generated by the solar panel system will be sold to the City of Alachua. The project helped save seven jobs.

Wendell's Hardware, Inc.

In July 2011, Wendell's Hardware, in Brunson, Florida, used a REAP grant to purchase and install a solar photovoltaic system. This system will generate 106 percent of energy needs. The remaining energy produced will be sold to a local utility company. The store employs nine workers.

Georgia	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	217	$6,215,193	$2,902,073	124,779
Biomass	7	$512,157	$500,000	78,493
Energy Efficiency	166	$2,027,940	-	28,141
Flexible Fuel Pump	1	$189,416	-	16,059
Geothermal	1	$6,553	-	19
Hybrid	1	$227,500	-	211
Hydropower	1	$19,950	-	87
Solar	39	$3,200,068	$2,338,873	1,649
Wind	1	$31,609	$63,200	120

Cantsink Manufacturing Solar Energy Project

In September of 2010, Cantsink Manufacturing of Winder, Georgia received a REAP grant and a loan guarantee to install a solar pv system. The new system generates 58,033 kWh each year. The solar panels are expected to create 63,000 kWh of electricity yearly and create six jobs.

M&C Farms, Inc. - Diesel to Electric Irrigation Motor

In 2011, M&C Farms Inc., of Dodge County, Georgia used a REAP grant to install a 75 horsepower electric irrigation motor to replace a 20-year- old diesel motor that was used to water crops. The new motor generated a 90 percent savings and helped save one job.

Hawaii	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	20	$708,413	$422,200	3,073
Energy Efficiency	1	$ 5,448	-	18
Flexible Fuel Pump	1	$47,420	-	2,434
Hybrid	1	$19,500	-	7
Solar	17	$636,045	$422,200	614

Surfing Goat Dairy

Surfing Goat Dairy in Hawaii received a REAP grant to support building a 43 kW photovoltaic array. When completed, the system will provide 100 percent of dairy's energy needs. The photovoltaic system was installed on a barn and parking structure and is anticipated to generate 67,529 kWh or 104 percent of the energy needs.

Lalamilo Farm Partners

The Lalamilo Farm Partners of Hawaii received a REAP grant help offset the costs to install a photovoltaic system to reduce electricity costs in its ice cream operation. When complete, the system will provide 100 percent of its energy needs.

Idaho	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	97	$3,164,592	$1,500,000	64,707
Biomass	7	$2,270,734	$1,500,000	60,457
Energy Efficiency	67	$565,406	-	3,635
Flexible Fuel Pump	1	$16,250	-	0
Geothermal	2	$51,018	-	120
Hydropower	2	$16,567	-	7
Solar	15	$199,427	-	449
Wind	3	$45,190	-	39

Whiteside Dairy

Whiteside Dairy's reliance on propane to heat the water required to clean milking barns and dairy cows not only contributed to greenhouse gas creation, but also was expensive and was subject to price spikes resulting from price fluctuations. Rural Development awarded the dairy a REAP grant for the installation of a 30 solar-thermal panel array.

The farm's system will be converted from propane-heated water to a solar thermal water-heating system that uses vacuum tubes to produce about 1,000 gallons of 165-degree water per day. The system is expected to pay for itself within the first year, resulting in an estimated $500,000 in energy cost savings.

AgPower Jerome, LLC

USDA Rural Development awarded AgPower Jerome, LLC, a REAP grant for the installation of a 4.5-megawatt anaerobic digester to use manure waste to generate electricity to be sold commercially to Idaho Power.

Converting from an expensive manual manure management system to a flush system where waste moves through a gravity flow system to the digester, creates substantial economic benefit. The new system recycles and reuses 100 percent of the previous waste, turning a liability into an asset. In addition to significantly reducing costs associated with fuel and wear and tear on the equipment, the dairy also saves money on fertilizer and bedding. When the digester separates the solids from the liquid, it provides a valuable fiber material which gets used for bedding. The remaining solid material is an excellent, organic fertilizer material. These benefits

pale in comparison to the primary economic benefit results from the liquid methane utilized in the production of electricity. The system recently went into operation so actual sales are not yet known, but is expected to be substantial.

Illinois	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	287	$8,924,982	$5,438,034	124,237
Biomass	1	$375,000	$750,000	19
Energy Efficiency	277	$8,382,271	4,688,034	118,717
Flexible Fuel Pump	2	$48,388	-	4,565
Geothermal	4	$56,537	-	895
Solar	1	$18,439	-	14
Wind	2	$44,347	-	28

Jeff and Sheila Koester

Jeff and Sheila Koester's family-owned, certified organic dairy farm in northern Illinois received a REAP grant in 2011 to install a 10.75 kW photovoltaic solar system. The power generated from these panels will be used for lighting the milking barn, powering the vacuum pump, milk cooler, and fans. It will offset about 49 percent of the annual farm energy consumption.

Pals Electric

Pals Electric is a small electrical contractor in rural Teutopolis, IL. Rural Development provided a REAP grant to install a 10 kW wind turbine to power the shop. This project will produce enough wind electricity to offset nearly 70 percent of the facility's annual energy consumption.

Indiana	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	214	$6,640,226	$2,138,714	105,607
Biomass	2	$25,047	-	50
Energy Efficiency	198	$6,350,212	$2,138,714	101,327
Flexible Fuel Pump	3	$104,851	-	3,718
Geothermal	1	$19,956	-	291
Solar	8	$108,656	-	174
Wind	2	$31,504	-	48

Pleasant Home Farm

In 2011, Pleasant Home Farm in Indiana received a REAP grant from USDA Rural Development to install a wind turbine to produce renewable energy to offset energy costs. The project should create an energy savings of 21,000 kWh.

Linneweber Brothers

Indiana's Linneweber Brothers received a REAP grant to offset the equipment and installation costs for a GSI Top Dry System that allows grain filling, drying and dumping operations to be run automatically for efficiency, and reduce grain spoilage. This project saved four jobs and the new energy-efficient dryer will reduce the amount of energy used and emissions.

Iowa	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	1,128	$38,431,390	$46,358,749	871,286
Biomass	8	$1,355,071	$763,250	16,674
Energy Efficiency	963	$25,427,223	$14,781,380	722,697
Flexible Fuel Pump	8	$350,477	-	41,701
Geothermal	48	$846,761	$97,388	2,824
Hybrid	2	$47,689	-	102
Solar	3	$72,279	$49,975	641
Wind	96	$10,331,890	$30,666,756	86,647

Country Kennels

Jim and Emily Robidoux, owners of Country Kennels near Polk City, Iowa, used a REAP grant to install a geothermal heating and cooling system when converting an existing outbuilding to dog kennels. In the first full year operating the geothermal system the business was able to save more than $800 in heating and cooling costs.

City of Woodbine - 503 Walker LLC

Across Iowa, rural towns are renovating their downtown areas to keep communities vibrant. The City of Woodbine has recently undergone significant upgrades thanks, in part, to the Main Street Iowa program, and assistance of USDA Rural Development and local developers. After receiving a REAP grant, the developer installed an energy-saving geothermal heating and cooling system in the two Walker buildings. These buildings will now host a restaurant, renovated commercial and retail space and six apartments.

Kansas	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	113	$2,649,590	1,031,198	70,512
Biomass	1	$20,358	-	-
Energy Efficiency	90	$1,498,146	$491,488	52,433
Flexible Fuel Pump	5	$190,525	-	9,265
Geothermal	4	$87,062	-	5,768
Solar	6	$146,684	$59,710	236
Wind	7	$706,815	$480,000	2,809

Kansas Hardwoods

Kansas Hardwoods sells local and domestic woods and wood products. The REAP grant funds were used to install a geothermal heat pump and wood-gasification unit to heat and cool the new Kansas Hardwoods building

in Belvue. The REAP program provided the small business with capital, which allowed it to increase production by building a climate controlled, energy efficient facility.

Fire Stables, LLC

Fire Stables, LLC used the REAP program to install solar panels on horse stables in Lenexa. The solar array is comprised of 504 panels that total 118 kilowatts, and will create yearly energy savings of about 160,000 kilowatt hours. Estimated energy savings for the business is $16,000. Fire Stables has one of the largest solar arrays in Kansas.

Kentucky	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	122	$3,431,112	$1,777,447	21,710
Biomass	1	$30,943	-	917
Energy Efficiency	108	$2,973,177	$1,777,447	20,574
Hybrid	1	$8,442	-	12
Solar	12	$418,550	-	207

Whitaker Food Stores

Whitakers Food Stores is a family-owned business located in a rural community in a persistent poverty county in far Eastern Kentucky. The store had an outdated lighting system and inefficient refrigeration and freezer equipment. REAP funds were used to increase energy efficiencies and will provide a total energy savings of 564,671 kWh per year, a 63 percent energy savings.

Inside-Out Design

Inside Out Design is a small family-owned landscape and hardscape design and building firm that works to create sustainable, individualized outdoor spaces. Owners Andrea and Michael Mueller provide services to both residential and small business commercial accounts and have a found a niche in creating outdoor rooms and specialty themed eco-ethical gardens. With Rural Development funding, Inside Out Design plans to build a facility and offices that feature several sustainable elements, including partial earth-berm construction, geothermal heating and cooling, geothermal domestic water heating, solar thermal radiant floor heating in shop, vegetative green roof and open cell foam insulation.

These elements will help significantly reduce the energy use in the building. This project will create jobs in the local community and the company's plans to add three full-time crews by 2012 and another designer or design assistant by 2013.

Louisiana	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	26	$1,566,755	$1,000,000	556,144
Biomass	6	$931,213	$1,000,000	536,578
Energy Efficiency	15	$488,458	-	4,356
Flexible Fuel Pump	1	$41,250	-	13,090
Solar	4	$105,834	-	2,119

Durand Grocery

Durand Grocery Store has been in existence for at least 50 years. The equipment was old and in need of repair or replacement. The businesses received a REAP grant to install new refrigeration and cooling units for meat and produce cases, new energy efficient lighting, a tankless water heater, new heating, ventilation, and an air conditioning system. Since completion, Durand Grocery cut electrical consumption by about $1,600 per month.

Durand Ponds and Farm, Inc.

Rural Development assisted Durand Ponds and Farm with retrofitting three irrigation power units. Durand Ponds will save money by converting from diesel to electric pumps. The project will result in a 69 percent reduction of energy use for an annual savings of $16,000.

Maine	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	29	$1,215,064	$1,667,781	47,757
Biomass	2	$520,000	$1,667,781	46,394
Energy Efficiency	6	$106,020	-	507
Geothermal	1	$ 9,675	-	70
Solar	19	$565,022	-	775
Wind	1	$4,347	-	10

Lamey-Wellehan

REAP funds were used to install a photovoltaic system for Lamey-Wellehan in Auburn, Maine. This project is providing 58 percent of electrical needs for the business at that location. The owner is pleased with the results and indicates interest in applying for additional funds for a large solar photovoltaic system at the business' Bangor, Maine location. This project helped save 105 jobs at Lamey-Wellehan.

Haulks Maple

Haulks Maple, a small maple syrup producer in rural Maine, received a REAP grant to purchase and install a new evaporator for maple syrup production. During sap season, Haulks collects syrup from about 1,000 taps on maple trees. The new evaporator produces distilled hot water, which would normally have to be heated on a gas stove. The new evaporator uses less wood and less time, allowing the business to produce more syrup. Haulks estimates it can now make 46 gallons of maple syrup in six hours versus 24 hours.

Maryland	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	30	$1,298,752	-	2,056
Energy Efficiency	11	$212,527	-	643
Geothermal	2	$332,500	-	168
Solar	14	$698,534	-	692
Wind	3	$55,191	-	553

Sunnyside Farms

Sunnyside Farms is an egg producer in Westminster, Maryland that gathers 29,000 dozen eggs each day. It received a REAP grant to purchase and install a 940,220-watt solar panel array that will supply an anticipated 25 percent of its energy needs. Sunnyside hopes their REAP projects produce 245,000 kWh of electricity.

Berrywine Plantations, Inc

Berrywine Plantations received REAP funds to offset the costs for the equipment and installation of a 5 kw ground mount solar array used by two electric vehicle charging stations for visitors at the winery. The new system is anticipated to save 6,000 kWh per year.

Massachusetts	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	44	$2,265,884	$4,109,251	4,033
Biomass	3	$371,368	$1,451,638	2,303
Energy Efficiency	9	$211,027	-	96
Solar	31	$1,683,489	$1,069,000	1,268
Wind	1	-	$1,588,613	367

Morning Glory

Morning Glory Farm grows 55 acres of vegetables and fruits on the island of Martha's Vineyard. It produces organic foods, including strawberry jam and zucchini bread, spinach salads and seasonal homemade pies.

The company also provides employment opportunities to islanders. REAP funds supported the construction of a wind turbine that has so far produced 148,896 kWh. The wind turbine provides 100 percent of current operational needs.

Real Pickles

Real Pickles is a small, independent business producing pickled products that are raw, vinegar-free, and 100 percent organic. They have developed a green initiative approach to help sustain operations. The Rural Development REAP grant helped reduce energy cost by 31 percent at one facility.

Michigan	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	170	$5,918,164	$923,596	47,144
Biomass	5	$1,229,716	-	9,647
Energy Efficiency	83	$2,333,417	$739,096	30,374
Flexible Fuel Pump	1	$500,000	-	5,214
Geothermal	11	$154,997	-	406
Hybrid	2	$55,724	-	31
Solar	59	$1,412,090	$184,500	1,298
Wind	9	$232,220	-	175

McDonald's Food and Family Center

McDonald's Food & Family Center LLC is a family-owned grocery store located in Huron County, Michigan. The company started operations in 1953 and has evolved into a one-stop shopping center offering groceries, catering, gardening, floral and pharmaceutical services.

The Center used its REAP grant to replace two natural gas-fired roof-top units to efficiently heat, cool and ventilate its store's central and meat areas. The old heating system ran 18 hours a day, 7 days a week because refrigerated cases lowered the ambient store temperature.

Through REAP, the Center financed a Heat Reclaim Coil System designed to receive waste heat from the stores' existing medium-temperature refrigeration system. The new cooling unit continues to operate on electricity as backup to the new system, but helps reduce store humidity and lower the load on existing refrigeration systems. Combined, this new system is expected to reduce energy usage by an equal or greater amount.

Their first year after installing the Heat Reclaim Coil System, the owners documented an annual savings of $13,114.

Country Mill Farms, LLC

Country Mill Farms, LLC in Charlotte, Michigan received a REAP grant to purchase and install a biomass boiler gasification unit, heating system and canola press. The project replaces 95 percent of its propane consumption by using wood scraps as feed stock for the boiler gasification unit. This renewable energy project will allow Country Mill Farms to stay open longer, which will increase overall sales.

Minnesota	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Projects	512	$12,548,264	$5,136,337	994,724
Biomass	4	$54,917	-	1,587
Energy Efficiency	440	$11,194,646	$4,875,720	966,395
Flexible Fuel Pump	4	$105,781	-	23,640
Geothermal	29	$355,888	-	1,930
Solar	9	$163,807	-	154
Wind	26	$ 673,225	$260,617	1,019

Longmire Foods

In 2011, Longmire Foods used a REAP grant to install new, efficient doors on the store's coolers and freezers. The company now saves about $500 per month on energy costs. The owner originally planned to replace all of the coolers and freezers in the store. However, when he learned about the REAP program, he decided to add doors to the existing coolers instead. The total cost of the replacement door is the same as the cost to replace one cooler.

Root River Hardwoods, Inc.

In 2009, Root River Hardwoods was looking for ways to operate more efficiently. The company used a REAP grant to purchase and install a furnace that burns hardwood scraps as its feed source and is the sole source of heat for a 2,000-square-foot pallet mill and 7,200-square-foot saw mill. The feedstock was already owned by

Root River, adding no additional cost to the project, which offsets $14,500 in annual heating costs and saves 8,800 gallons of gas.

Mississippi	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	80	$2,035,805	$8,479,858	32,168
Energy Efficiency	75	1,718,931	$6,963,579	31,808
Flexible Fuel Pump	1	$21,393	$85,573	-
Solar	4	$295,481	$1,430,706	360

Synergetics

Synergetics DCS, Inc., an IT company located in Starkville, Mississippi, encompass a wide range of technology solutions including hardware and software sales and service, structured cabling, IP telephone and security systems, network maintenance, and technology training. Synergetics currently has 67 employees at its headquarters. In August 2011, the company used its REAP grant to purchase and install a 200 KW solar array system, the largest solar array in the state. Project funds, which were leveraged by the local bank and Mississippi Development Authority Energy Division, would not have been available without the REAP grant.

The facility uses about 508,800 kWh of electricity per year. However, the new solar system will produce about 267,471 kWh annually, resulting in 52.9 percent of energy replaced and 109 percent of energy savings. The project helps the company increase profits , save and create jobs. Income from the system is projected to be $63,000.

Tucker Poultry

For the past 14 years, Beverly Tucker has operated a poultry growing business in Bay Springs, Mississippi. The 80-acre operation consists of four poultry broiler houses and support facilities.

Tucker's poultry houses were in need of repair and upgrade to offset rising energy costs. She obtained a REAP grant that was leveraged with funds from a local bank. The improvements to the facility helped Tucker reduce her energy use by 223,000 kWh in 2011, or $12,500 in savings. Without the REAP grant, Tucker probably would not have been able to obtain the funds necessary to complete the energy upgrades.

Missouri	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	113	$3,523,055	$5,985,916	293,211
Biomass	6	$681,412	$5,502,000	178,105
Energy Efficiency	73	$2,036,337	$418,916	15,255
Flexible Fuel Pump	6	$290,591	-	99,357
Geothermal	5	$115,704	$65,000	121
Hybrid	2	$31,427	-	45
Solar	19	$337,984	-	297
Wind	2	$29,600	-	31

Town and Country Butcher Shop

Town and Country Butcher Shop in Missouri is a small, locally-owned butcher providing fresh meat to consumers in Palmyra, Missouri and the surrounding area. The existing freezer unit was inefficient, costly and needed to be replaced. In 2011, owner Ed Dent used REAP funds to offset costs associated with installing a new freezer unit. The new freezer reduced the business' energy consumption. The upgraded equipment reduced electricity use by about by 30,000 kilowatts annually.

Hampton Feed Lot

The Hampton Feed Lot anaerobic digester project is expected to be fully operational later this year. The system uses biomass (cow manure) to generate electricity.

The electricity will be sold to Kansas City Power and Light to provide additional income for the feedlot operator. Environmental benefits include reduced odor and pathogen content in wastewater; less pollution by capturing and burning large amounts of methane; and helping the feed lot meet environmental compliance standards as it relates to animal waste.

Montana	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	24	$951,281	$163,431	11,271
Biomass	3	$88,823	-	10,254
Energy Efficiency	7	$154,526	$78,525	599
Geothermal	4	$71,544	-	265
Hybrid	1	$39,945	$79,906	62
Hydropower	1	$500,000	$5,000	2
Solar	7	$81,443	-	72
Wind	1	$15,000	-	18

Turnbull Hydroelectric

Turnbull Hydroelectric, which provides hydroelectric generation on an irrigation drop, received a Business & Industry loan guarantee and a REAP grant in 2010. The project was built on the existing system of an irrigation district, which is selling the power to the electric utility.

Simms Fishing

REAP funds were used to place a solar array on a new manufacturing plant and headquarters for Simms Fishing, a fly fishing gear manufacturer in Bozeman, Montana, in 2011. The company makes waders, boots, vests, and other equipment for outdoor recreation. This manufacturing business is growing and adding jobs.

Nebraska	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	408	$6,693,800	$5,756,579	583,172
Biomass	1	$3,957	-	95
Energy Efficiency	393	$5,612,729	$3,767,329	519,328
Flexible Fuel Pump	2	$428,632	-	62,500
Geothermal	5	$45,735	-	77

Hybrid	1	$20,000	-	21
Wind	6	$582,747	$1,989,250	1,150

Main Street Floral, LLC

Main Street Floral, LLC is a floral and gift shop located in Superior, Nebraska. The flower shop needed energy efficient doors, windows, and lighting system. Rural Development provided a REAP grant to offset equipment and installation expenses. As a result, the store will reduce its original energy use by 48 percent and reduce its BTU consumption by 20 million units.

Y7, Inc.

REAP funds were used to help finance wind powered electricity for irrigation on the Y7, Inc. farming operation in western Nebraska. The turbines are validation that wind power can reduce rising electricity costs for irrigation and other farm operations.

Nevada	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	11	$469,189	-	1,302
Biomass	1	$14,094	-	2
Energy Efficiency	2	$13,940	-	73
Hydroelectric	1	$19,700	-	276
Hydropower	3	$270,272	-	665
Solar	1	$17,575	-	13
Wind	3	$133,608	-	272

Young Brothers Ranch

Young Brothers Ranch, in Big Smoky Valley (a very remote area of Lander County in central Nevada) needed to reduce power costs to run an irrigation system. The owners farm 780 acres of alfalfa and small grain hay. The ranch had been one of the first in the valley to develop power back in the 1940s, and they wanted to look at using alternative energy.

REAP funding was used to purchase a 93 kW hydro-turbine generator that will replace 79 percent of the energy needed for hay production. Rural Development provided a second REAP grant to replace a portion of the pipeline to further increase efficiency. The electricity generated by the hydro turbine replaces some of the electricity that the farmer was purchasing.

The hydro-turbine generator will use existing water sources to produce electricity reducing their current energy costs by an estimated $37,000 per year.

Van Norman Ranch

Rural Development provided a REAP grant for hydroelectric production on the Van Norman Ranch in the northeast corner of Nevada. The ranch grows hay and has a cow calf operation. Through the REAP program, the owners have acquired 35 kw and 17 kw turbines that were placed on spring-fed streams. The ranch accrues power credits and uses them during irrigation season to run the pumps for their pivot irrigation system.

New Hampshire	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	21	$572,093	$509,497	3,742
Energy Efficiency	12	$249,330	$80,000	3,476
Geothermal	1	$13,059	-	6
Solar	8	$309,704	$429,497	260

Pleasant View Gardens

Pleasant View Gardens, in Pembroke, New Hampshire, was looking for ways to improve business efficiency and reduce dependence on foreign oil. It developed a plan to install a 400 kW biomass wood-fired boiler system to heat its commercial greenhouses.

Rural Development provided a REAP grant and a loan guarantee to First Pioneer Farm Credit to offset the costs to install the biomass boiler system. The project will help Pleasant View Gardens displace the use of about 242,000 gallons of heating oil - a savings of more than $700,000 annually. The new biomass system will consume 4,200 tons of locally produced wood chips.

DS Cole Growers

DS Cole Growers of Loudon, New Hampshire is a 150,000-square-foot commercial greenhouse complex. It is a leading provider of wholesale annual plants to the nursery trade and supports 28 jobs in a rural area. Cole distributes throughout New England and the United States. It used the REAP program to reduce dependence on fossil fuel (natural gas) and to reduce heating costs. The REAP grant helped DS Cole purchase and install energy curtains on the grow houses. The project will save more than 2.2 million BTUs annually—or $30,000.

New Jersey	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	39	$3,462,317	$1,883,937	2,097
Energy Efficiency	1	$49,560	-	164
Solar	35	$3,324,056	$1,883,937	1,870
Wind	3	$88,701	-	63

Fulper Farms LLC

In 2010, Fulper Farms used a REAP grant and a loan guarantee to build a 134 kW ground-mounted solar energy system on the farm.

Plagido's Winery LLC

In 2011, Plagido Winery used a REAP grant to build a 11.96 kW roof-mounted solar energy system at the winery. The new system helped reduce the company's operating costs.

New Mexico	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	26	$904,740	$850,000	117,971
Energy Efficiency	5	$72,074	-	556

Flexible Fuel Pump	2	$17,183	-	2,493
Solar	18	$776,914	$850,000	114,879
Wind	1	$38,569	-	43

PFI, LLC

PFI, LLC owns and operates a 114-acre farm in Roswell, New Mexico. The farm grows cereal grains and corn silage, primarily for dairy cows. The owners received a grant and guaranteed loan through REAP for the purchase and installation of a 99.5 kW solar voltaic array to provide electricity to power the center pivot and irrigation well pump.

Southwest Technical Service, Inc.

In June 2011, Southwest Technical Service, Inc. received a REAP grant to offset the cost of developing a solar array for its business. Southwest Technical Service is a small rural business in the foothills of the Sandia Mountains in Placitas, New Mexico, 20 miles north of Albuquerque. The business, which supports the owner and two additional employees, produces machined parts on contract to national scientific laboratories and other private companies. The grant provided a fourth of the cost of purchasing and installing 7.1 kW solar voltaic array, which provides electricity for the business's administrative and manufacturing facility. The solar array covers about 2,750 square feet of the facility's roof and comprises 30 panels of 235 watts each. The electricity offsets about 50 percent of fossil fuel costs and saves approximately $250 per month.

New York	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	189	$4,061,747	$1,695,086	24,800
Biomass	2	$235,091	$450,000	9,425
Energy Efficiency	90	$1,077,465	$769,487	13,133
Flexible Fuel Pump	1	$21,688	-	270
Geothermal	1	$203,700	$229,599	827
Hybrid	1	$19,860	-	6
Solar	68	$1,978,619	$246,000	890
Wind	26	$525,324	-	250

The Berry Farm

The Berry Farm in New York is a 22-acre fruit and vegetable farm, greenhouse, and market with bakery and fresh meat products. In 2011, The Berry Farm received a REAP grant to offset 25 percent of the equipment and installation costs for a 29 kW pole-mounted solar photovoltaic system. The system will produce an estimated 35,791 kWh of electricity, which will offset 88 percent of The Berry Farm's power usage.

Schwab Dairy

Schwab Dairy Farm, in Delevan, New York, is a 700-cow dairy which had been using sawdust for bedding of the dairy herd. The farm proposed changing to sand bedding to improve cow comfort and performance and to reduce the high cost of buying and disposing of sawdust bedding materials.

In June 2010, Schwab Dairy Farm LLC received a grant and a loan guarantee to install a bedding-sand recovery system. REAP funds were used to install a sand separator to recover sand from the manure slurry and reuse it. Over a five-year period, this project is expected to save 5,700 BTUs – the equivalent of 44,100 gallons of diesel fuel.

North Carolina	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	277	$ 6,136,221	$ 10,342,500	303,045
Biomass	9	$574,047	$5,367,000	214,951
Energy Efficiency	241	$4,341,077	$49,500	54,418
Flexible Fuel Pump	1	$36,750	-	342
Geothermal	2	$53,670	-	26,472
Hydroelectric	1	$146,281	-	2,884
Solar	23	$984,396	$4,926,000	3,979

Metrolina Greenhouses

Metrolina is a large-scale greenhouse operation in Huntersville, North Carolina. The REAP-funded project consisted of construction of a wood boiler heating system that would supplement, and at times replace the use of natural gas and/or fuel oil at the facility. By using wood chips to heat their greenhouses they would be using a renewable source, providing an additional market for local lumber mills, and logging operations. The project also now saves up to 172,800 mmbtu per year of energy and uses about 35,000 tons of wood chips per year.

Mayberry Solar, LLC

Mayberry Solar, LLC used a land lease from the Town of Mount Airy, North Carolina to install the ground mounted solar system near a waste water treatment facility. The land used could not serve other purposes due to the proximity of the treatment spray fields. Thus, the town and community are able to benefit from the lease agreement and have a large solar project installed that will provide a source of renewable energy to the local power company. The 1.2 mW solar array will generate enough energy to power 200 homes a year.

North Dakota	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	45	$1,616,242	$730,523	29,875
Energy Efficiency	28	$1,123,472	$630,523	13,426
Flexible Fuel Pump	4	$228,849	-	16,026
Geothermal	2	$23,194	-	113
Hybrid	1	$19,787	-	43
Solar	3	$74,297	-	51
Wind	7	$146,643	$100,000	216

Chad Brandt

Chad Brandt of Oakes, North Dakota, dries about 225,000 bushels of grain per season, using propane. He replaced his 30-year-old cross-flow screen dryer with a 10-tier mixed-flow dryer. An energy audit projected that new system would be 20 percent more efficient than his existing system. The moisture content in his corn had been ranging from 26-29 percent, driving the need to improve his grain-drying system. The REAP program provided grant and guaranteed loan funds to help offset the costs of the project.

Ohio	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	169	$12,264,217	$24,446,326	392,397
Biomass	15	$5,483,476	$21,990,310	347,148
Energy Efficiency	111	$2,906,833	$1,306,243	34,187
Flexible Fuel Pump	3	$141,088	-	4,111
Geothermal	2	$40,000	-	160
Solar	17	$799,997	$95,922	636
Wind	21	$2,892,823	$1,053,851	6,156

First Choice Package

REAP funds were used to replace existing lighting in First Choice Package's facility, in Fremont, Ohio, with high-efficiency lighting to improve energy efficiency and work-place lighting. The project has saved over 1,000,000 kWh of electricity since installation.

Webb Perennials

The Webb Perennials project involves the installation of a small wood-fired boiler system for a small greenhouse in southeastern Ohio that allowed the owner to offset nearly 100 percent of the propane use for the greenhouse. The project saves Webb Perennials about $8,000 a year.

Oklahoma	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	40	$1,313,785	$393,325	12,096
Biomass	6	$310,174	-	4,353
Energy Efficiency	16	$429,856	$268,575	5,638
Flexible Fuel Pump	1	$16,125	-	1,106
Hybrid	1	$19,650	-	4
Solar	5	$352,476	-	779
Wind	11	$185,504	$124,750	215

Jensen International, Inc.

Jensen International, Inc. used a combination of REAP grant and guaranteed loan funding to complete a furnace upgrade. In the first year after the upgrade was completed, the firm reduced its energy consumption by 1,038,000 kilowatt hours, saving about $300,000 in energy cost.

Rollingstone Stables

REAP funding was used to purchase a 10 kilowatt wind turbine for Rollingstone Stables, a recreational guest ranch. The project will save the ranch about $6,500 in annual energy costs.

Oregon	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	119	$3,852,141	$13,158,233	73,331
Biomass	5	$ 658,794	$3,650,000	53,070

Energy Efficiency	24	$728,493	-	3,833
Hydroelectric	2	$19,695	$7,200,000	13,688
Solar	74	$1,685,209	$81,093	1,107
Wind	14	$759,950	$2,227,140	1,633

SPS of Oregon, (Wallowa County)

SPS of Oregon received the state's first micro hydro REAP grant. The project directs irrigation water through a dual-nozzle pelton wheel to power an 11 kW generator. It will produce about 75,000 kilowatt hours of power annually.

Tillamook, LLC (Farm Power Northwest)

REAP funds were used to construct an Anaerobic Digester that will use manure to generate about 7.4 megawatts of electricity annually that will be sold to the Tillamook People's Utility District. That's enough energy to heat about 1,500 homes.

The community digester, expected to go online this year, will capture methane gas from the manure from 1,800 dairy cows. Rather than being released into the atmosphere as greenhouse gas, the methane will be burned to generate electricity for the local utility district.

In addition to producing renewable energy and reducing greenhouse gas emissions by thousands of tons per year, the project will improve handling of animal waste, improve water quality, and reduce labor for dairy farmers. After it undergoes anaerobic digestion, the processed manure leaves the facility as a pathogen- and odor-free organic compost.

Pennsylvania	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	79	$4,776,196	$867,065	136,119
Biomass	11	$2,721,594	$577,340	59,502
Energy Efficiency	23	$517,470	$100,000	63,894
Flexible Fuel Pump	1	$24,675	-	761
Geothermal	1	$20,000	-	116
Solar	43	$1,492,457	$189,725	11,847

Pennwood Farms

Pennwood Farms in Somerset County, Pennsylvania, is a 600-cow dairy farm. With the increasing cost of energy, small farmers are finding innovative ways to maintain viability and competitiveness. In April, the owners installed a digester by using a REAP loan and a grant. The digester produces biogas to power a 180-kilowatt engine-generator, which in turn produces enough electricity to meet the farm's needs. In addition to electricity, the digester also produces fertilizer and cow bedding.

Molnar Farms

Molnar Farms received REAP funds to install computer-controlled radiant heaters and ceiling vents to modernize a 40,000 chicken house to keep the chickens from being exposed to temperature fluctuations.

Puerto Rico	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	10	$602,436	-	103,173
Biomass	1	$14,062	-	102,192
Energy Efficiency	1	$39,800	-	509
Solar	8	$548,574	-	472

Vaqueria La Maraton

Vaqueria La Maraton is a farm located in San Lorenzo, Puerto Rico, where an on-grid photovoltaic panel system was installed to produce clean, renewable and cost-effective energy for the dairy operation. Dealing with the high electricity costs became a main concern for the financial stability of the operation. In 2010, the owners received a Rural Energy for America Program grant from USDA Rural Development. The funds will offset 25 percent of the equipment and installation costs for 117 PV panels (120W). The dairy farm owners anticipate a reduction in over 50 percent of current energy needs, a savings of more than $12,000 annually.

Rhode Island	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	3	$55,615	-	268
Biomass	1	$20,000	-	232
Solar	2	$35,615	-	36

Rhode Island Resource Conservation and Development Area Council

The Rhode Island Resource Conservation and Development Area Council will use REAP funds to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy-efficiency improvements.

South Carolina	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	53	$2,110,962	$963,521	27,845
Biomass	4	$598,760	$838,521	2,624
Energy Efficiency	46	$1,152,016	$125,000	14,260
Flexible Fuel Pump	2	$97,686	-	10,897
Solar	1	$262,500	-	64

Champion Wood Pellet, LLCs

Champion Wood Pellets received REAP funds to produce approximately 10,400 tons of finished and palletized wood pellets per yearwhich replace propane and other fuels, also creating seven new jobs. The project will help to meet the Federal and State objectives of providing more energy from renewable resources. The energy that is derived from biomass is considered carbon neutral and sustainable.

Carr Farms, Inc.

Carr Farms, Inc. received REAP funds to convert two diesel irrigation pumps to electric powered pumps to spray 308 acres of irrigated peach trees. In addition to the pump conversion, the project consisted of removing the

existing Freon hydro-cooler lines, converting them to use the existing ammonia compressors for the other hydro-cooler lines. This conversion allows the full use of the ammonia system, and helps to phase out the use of Freon, an ozone pollutant. The conversions allow for 33 percent energy savings.

South Dakota	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	97	$3,545,909	$2,758,772	26,716
Biomass	1	$17,035	-	100
Energy Efficiency	79	$3,158,316	$2,448,772	19,601
Flexible Fuel Pump	3	$61,040	-	4,300
Geothermal	10	$137,171	-	530
Hybrid	1	$19,178	-	0
Wind	3	$153,169	$310,000	2,184

N-K Properties

John Keys, owner of N-K Properties in Yankton, South Dakota, used Rural Development grant funds to purchase and install a geothermal heating system, which has increased his revenue, and saved costs for his car wash operation.

Legend Seeds

Glen Davis, president of Legend Seeds, Inc. in Kingsbury, South Dakota, used Rural Development funds to help install a corn-burning boiler.

Tennessee	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	98	$4,097,409	$2,500,383	633,936
Biomass	7	$1,102,854	$1,103,942	628,325
Energy Efficiency	20	$512,852	$165,856	3,334
Geothermal	1	$11,250	-	2
Hybrid	1	$19,999	-	28
Solar	69	$2,450,454	$1,230,585	2,247

Wampler's Farm Sausage

Wampler's Farm Sausage Company is a third-generation agriculture company that understands the importance of taking care of the environment. The business accomplishes this by making their sausage in the most sustainable way possible. In 2009, Wampler's received a REAP grant to install a 28 kW photovoltaic system on the roof. The company owner was very pleased with the success of this system and in 2010 decided to significantly increase the system capabilities by installing a 2,240-panel, 500 kW array. To assist in this the company received a REAP guaranteed loan and a REAP grant. This system should displace 12-15 percent of the company's electricity consumption.

Greater Growth, LLC

Greater Growth, LLC, in Lenoir City, Tennessee, received REAP funds to support solar power production. The facility relies on solar power and filtered rain water for a production concept called Aquaponics, which combines traditional aquaculture, where fish are raised in tanks, with hydroponics, where plants are cultivated in water. This business is one of the first commercial aquaponics businesses in east Tennessee.

Texas	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	94	$4,731,073	-	46,441
Biomass	1	$461,625	-	13,201
Energy Efficiency	48	$1,795,581	-	11,189
Flexible Fuel Pump	1	$11,829	-	1,020
Hybrid	2	$30,827	-	28
Solar	32	$800,464	-	970
Wind	10	$1,630,747	-	20,032

X Bar Ranch, LTD

In 2009, X Bar Ranch, LTD of Eldorado, Texas used a REAP grant to install new insulation, a 3.5 ton heat pump, water heater, blackout curtain, and energy-efficient windows. The improvements will save the ranch an estimated $1,000 each year in energy costs.

Red Caboose, LLC

In 2009, Red Caboose, LLC, a winery in Meridan, Texas, used a REAP grant to make energy efficiency improvements. Once completed, the project will save the winery $2,000 annually in energy costs.

Utah	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	19	$1,952,275	$287,000	30,129
Biomass	1	$496,750	-	20,652
Energy Efficiency	5	$247,660	-	4,458
Flexible Fuel Pump	1	$500,000	-	0
Hydroelectric	1	$500,000	$287,000	4,709
Solar	9	$176,164	-	298
Wind	2	$31,701	-	13

Hell's LLC - Hell's Backbone Grill

Hell's Backbone Grill is a locally owned and operated restaurant in Boulder, Utah. The restaurant grows much of its own produce in a greenhouse. In 2010, the company used a REAP grant to install a system of solar panels that produced power for their greenhouse. The new system allowed the company to extend the useful growing season for the restaurant's produce. Boulder has a population of 190 and Hell's Backbone Grill provides 30 full and part-time positions.

Washakie Renewable Energy, LLC

Located in rural Plymouth, Utah, Washakie Renewable Energy, LLC is the only large-scale advanced biofuel producer in the state and provides the community of about 300 with 65 jobs. The plant produces 10 million gallons of biodiesel and converts grease, animal fat and wastewater into clean biofuel. Their REAP grant will help reduce America's dependence on foreign oil by financing the construction and installation of a pretreatment of biofuels and advanced biofuel production plant with two blender pumps.

Vermont	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	97	$3,586,483	$5,422,749	28,857
Biomass	7	$2,285,861	$3,252,703	12,828
Energy Efficiency	73	$884,236	$403,633	14,657
Hydroelectric	1	$49,325	-	346
Solar	15	$351,061	$1,766,413	1,016
Wind	1	$16,000	-	11

Addison Solar, LLC

Rural Development provided a loan guarantee for Addison Solar, LLC to install a 1-megawatt solar energy project. The project will consist of 3,800 solar panels on a 16-acre tract of land.

Trackside Depot LLC

Owners of the historic Middlebury, Vermont train depot used REAP funds to change their building into a modern, energy-efficient space suitable for business offices. The owners wanted to maintain the historic character of the 1891 structure while updating the lighting, building, and mechanical systems to modern standards.

Virginia	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	50	$2,603,960	$435,271	32,485
Biomass	6	$1,347,556	$435,271	17,713
Energy Efficiency	26	$803,274	-	10,274
Flexible Fuel Pump	1	$49,605	-	2,278
Geothermal	1	$43,343	-	103
Hybrid	1	$64,675	-	14
Solar	15	$295,507	-	2,104

UNAKA Forest Products, Inc.

In 2009, UNAKA Forest Products, Inc. used a REAP loan and grant to purchase machinery and equipment so the owners could establish a chip mill capable of producing a renewable biomass fuel (wood pellets) for sale to area industries.

Cooper Vineyards

In 2009, Cooper Vineyards in Louisa, Virginia, wanted to expand a wine-tasting room. Rural Development was able to assist the business with a REAP grant to help with installation of four renewable energy systems.

Washington	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	29	$2,051,796	$3,786,500	33,930
Biomass	3	$1,200,000	$3,786,500	23,979
Energy Efficiency	8	$265,508	-	2,390
Flexible Fuel Pump	1	$66,218	-	6,807
Solar	13	$254,935	-	651
Wind	4	$265,135	-	103

The Farmers Market

The Farmers Market in Olympia, Washington attracts about 500,000 visitors during its nine-month season and generates about $5 million in sales. The Farmers Market Community Solar Project LLC, received a REAP grant to help purchase solar roof panels to be installed on the market.

In June 2011, 192 solar panels, manufactured in the state, were installed at the Farmers Market. The panels are capable of producing 30 to 50 percent of the market's electricity needs and reduce the electrical costs of the individual venders. Investors in the LLC are also eligible for a 30 percent federal tax credit on their contribution to the project.

Montesano Thiftway

The Montesano Thriftway in Grays Harbor County wanted to replace 50-year-old store lighting. The owners were looking for a newer and more energy efficient lighting system.

Rural Development provided a REAP grant to offset the costs associated with replacing the inefficient lighting in the grocery store. The Thriftway Store will save $4,600 annually on energy and maintenance costs. In addition, about 95,000 kilowatt hours are now saved annually, which is enough electricity to power seven homes for one year.

West Virginia	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	25	$802,492	$ 573,408	1,611
Biomass	1	$130,592	$319,408	3
Energy Efficiency	9	$232,100	-	1,188
Geothermal	3	$145,310	$ 254,000	155
Solar	12	$294,490	-	265

Caperton FurnitureWorks, LLC

In 2009, Caperton FurnitureWorks, LLC., a hardwood furniture manufacturer located in Morgan County, West Virginia, used a REAP grant to reduce energy costs and solve wood waste problems. The company installed a new, wood-fired, closed-loop boiler heating system and a 4,415-cubic-foot storage silo with transfer system. The new system will reduce energy consumption by 90 percent, reduce operating costs, and help maintain a workforce of 125 employees.

B&B Mart, Inc.

B&B Mart, Inc. is a small, family-owned grocery store in Rock Cave, West Virginia, that needed to be more energy efficient to remain competitive. The market is a trading center for rural communities in Webster, Lewis, Braxton and Randolph counties. The facility is a full-service grocery store, which sells locally grown produce and numerous regional brands of groceries in their product line. In 2010, B&B Mart, Inc. used a REAP grant to replace the heating and cooling system, coolers, freezers, produce cases, water heaters, improved lighting, and signage at the store. The energy efficiency renovations resulted in a savings of 121,000 kWh, or $8,500 annually.

Wisconsin	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	142	$4,639,650	$2,852,923	392,932
Biomass	3	$525,246	$1,321,187	18,072
Energy Efficiency	64	$1,694,951	$628,860	366,262
Flexible Fuel Pump	2	$477,482	-	-
Hybrid	1	$77,063	$133,996	159
Solar	49	$823,604	$35,000	675
Wind	23	$1,041,304	$733,880	7,764

Helene's Hilltop Orchard

Helene's Hilltop Orchard, LLC, of Merrill, Wisconsin, a REAP grant to purchase and install a 13.3 kW photovoltaic solar power system that will produce 16,226 kWh annually, providing 40 percent of the company energy needs.

Pagel's Ponderosa Dairy, LLC

Pagel's Ponderosa Dairy, LLC has 4,200 head of cattle. The company used a REAP grant to build an anaerobic digester that generates about 1,050 kilowatts per hour, enough energy to power more than 800 homes. In 2011, the system generated over 5,700,000 kWh.

Wyoming	Number of Projects	Grant Amount	Loan Amount	kWh (1,000)
Total	9	$157,651		1,832
Energy Efficiency	5	$53,605	-	995
Hybrid	1	$9,650	-	8
Solar	2	$67,619	-	782
Wind	1	$ 26,777	-	47

Powder River Energy Corporation

Ranches in northeastern Wyoming needed a cost-effective way to deliver water to livestock pasturing in remote locations. The ranchers worked with Powder River Energy Corporation, the local electric provider, to identify ways to provide electricity to the remote locations. Powder River Energy received a REAP grant, which it used to purchase solar-powered stock pump units and tanks. Thanks to REAP, 47 ranchers can now provide water to their livestock year-round.

Woods Landing, LLC

In 2011, Wood Landing, LLC used a REAP grant to make thermal insulation improvements to the roofing system of a rustic log building that is on the National Register of Historic Places.. The facility is located in an extremely rural area and used as the local gathering place.

USDA Rural Development
State Directors and Rural Energy Coordinators

Alabama
Ronald Davis, State Director
(334) 279-3400
Marcia Johnson, Energy Coordinator
(334) 279-3453
www.rurdev.usda/gov/al/

Alaska
Jim Nordlund, State Director
(907) 761-7707
Chad Stoval, Energy Coordinator
(907) 761-7718
www.rurdev.usda.gov/ak/

Arizona
Alan J. Stephens, State Director
(602) 280-8701
Brian Smith, Energy Coordinator
(602) 280-8757
www.rurdev.usda.gov/az/

Arkansas
Lawrence McCollough, State Director
(501) 301-3200
Laura Tucker, Energy Coordinator
(501) 301-3280
www.rurdev.usda.gov/ar/

California
Glenda Humiston, State Director
(530) 792-5800
Philip Brown, Energy Coordinator
(530) 792-5811
www.rurdev.usda.gov/ca/

Colorado
Jim R. Isgar, State Director
(720) 544-2903
Janice Pond, Energy Coordinator
(720) 544-2907
www.rurdev.usda.gov/co/

Delaware – Maryland
John Tarburton, State Director
(302) 857-3580
Bruce Weaver, Energy Coordinator
(302) 857-3629
www.rurdev.usda.gov/de/
www.rurdev.usda.gov/md/

Florida – Virgin Islands
Richard Machek
(352) 338-3402
Angela Prioleau, Energy Coordinator
(352) 338-3412
www.rurdev.usda.gov/fl/

Georgia
Quinton Robinson, Acting State Director
(706) 546-2162
J. Craig Scroggs, Energy Coordinator
(770) 267-1413 ext 113
www.rurdev.usda.gov/ga/

Hawaii
Chris Kanazawa, State Director
(808) 933-8380
Tim O'Connell, Energy Coordinator
(808) 933-8313
www.rurdev.usda.gov/hi/

Idaho
Wallace Hedrick, State Director
1(800) 632-5991 or (208) 378-5600
Brian Buch, Energy Coordinator
(208) 378-5623
www.rurdev.usda.gov/id/

Illinois
Colleen Callahan, State Director
(217) 403-6200
Mary Warren, Energy Coordinator
(217) 403-6218
www.rurdev.usda.gov/il/

Indiana
Philip Lehmkuhler, State Director
(317) 290-3100 ext. 4
Jerry Hay, Energy Coordinator
(812) 346-3411 ext 126
www.rurdev.usda.gov/in/

Iowa
William Joseph Menner, State Director
(515) 284-4663
Kate Sand, Energy Coordinator
(515) 961-5365 ext 130
www.rurdev.usda.gov/ia/

Kansas
Patricia Clark, State Director
(785) 271-2700
David Kramer, Energy Coordinator
(785) 271-2730
www.rurdev.usda.gov/ks/

Kentucky
Thomas G. Fern, State Director
(859) 224-7300
Scott Maas, Energy Coordinator
(859) 224-7435
www.rurdev.usda.gov/ky/

Louisiana
Clarence Hawkins, State Director
(318) 473-7920
Kevin Boone, Energy Coordinator
(337) 262-6601 ext 133
www.rurdev.usda.gov/la/

Maine
Virginia Manuel, State Director
(207) 990-9160
Beverly Stone, Energy Coordinator
(207) 990-9125
www.rurdev.usda.gov/me/

Massachusetts – Rhode Island – Connecticut
Jonathan Healy, State Director
1(800) 352-8015 or (413) 253-4300
Charles W. Dubuc, Energy Coordinator
(401) 826-0842 ext 1867
www.rurdev.usda.gov/ma/

Michigan
James Turner, State Director
(517) 324-5190
Rick Vanderbeek, Energy Coordinator
(517) 324-5157
www.rurdev.usda.gov/mi/

Minnesota
Mary Colleen Landkamer, State Director
(651) 602-7800
Ron Oman, Energy Coordinator
(651) 602-7796
www.rurdev.usda.gov/mn/

Mississippi
Trina George, State Director
(601) 965-4316
G. Gary Jones, Energy Coordinator
(601) 965-5457
www.rurdev.usda.gov/ia/

Missouri
Anita “Janie” Dunning, State Director
(573)876-0976
Matt Moore, Energy Coordinator
(573) 876-9321
www.rurdev.usda.gov/mo/

Montana
Matthew Jones, State Director
(406) 585-2580
John Guthmiller, Energy Coordinator
(406) 585-2540
www.rurdev.usda.gov/mt/

Nebraska
Maxine B. Moul, State Director
(402) 437-5551
Debra Yocum, Energy Coordinator
(402) 437-5554
www.rurdev.usda.gov/ne/

Nevada
Sarah Jose Mersereau-Adler, State Director
(775) 887-1222
Mark Williams, Energy Coordinator
(775) 887-1222 Ext 116
www.rurdev.usda.gov/nv/

New Jersey
Howard Henderson, State Director
(856) 787-7700
Victoria Fekete, Energy Coordinator
(856) 787-7752
www.rurdev.usda.gov/nj/

New Mexico
Terrence Brunner, State Director
(505) 761-4950
Jesse Bopp, Energy Coordinator
(505) 761-4952
www.rurdev.usda.gov/nm/

New York
Jill Harvey, State Director
(315) 477-6400
Scott Collins, Energy Coordinator
(315) 736-3316 Ext 4
www.rurdev.usda.gov/ny/

North Carolina
Randall A. Gore, State Director
(919) 873-2000
David Thigpen, Energy Coordinator
(919) 873-2065
www.rurdev.usda.gov/nc/

North Dakota
Jasper Schneider, State Director
(701) 530-2037
Dennis Rodkin, Energy Coordinator
(701) 530-2068
www.rurdev.usda.gov/nd/

Ohio
Tony Logan, State Director
(614) 255-2400
Randy Monhemius, Energy Coordinator
(614) 255-2424
www.rurdev.usda.gov/oh/

Oklahoma
David Ryan McMullen, State Director
(405) 742-1000
Jody Harris, Energy Coordinator
(405) 742-1036
www.rurdev.usda.gov/ok/

Oregon
Vicki L. Walker, State Director
1(866) 923-5626 ext 1 or (503) 414-3300
Don Hollis, Energy Coordinator
(541) 278-8049 Ext 129
www.rurdev.usda.gov/or/

Pennsylvania
Thomas P. Williams, State Director
(717) 237-2289
Amanda Krugh, Energy Coordinator
(717) 237-2299
www.rurdev.usda.gov/pa/

Puerto Rico
Jose Otero, State Director
(787) 766-5095
Luis Garcia, Energy Coordinator
(787) 766-5091 Ext 251
www.rurdev.usda.gov/pr/

South Carolina
Vernita Dore, State Director
(803) 765-5163
Shannon Legree, Energy Coordinator
(803) 253-3150
www.rurdev.usda.gov/ny/

South Dakota
Elsie May Meeks, State Director
1(800) 670-6553 or (605) 352-1100
Kenneth Lynch, Energy Coordinator
(605) 352-1120
www.rurdev.usda.gov/sd/

Tennessee
Bobby Mack Goode, State Director
(615) 783-1300
Will Dodson, Energy Coordinator
(615) 783-1350
www.rurdev.usda.gov/tn/

Texas
Francisco Valentin, Jr., State Director
(254) 742-9700
Billy Curb, Energy Coordinator
(254) 742-9775
www.rurdev.usda.gov/tx/

Utah
Wilson "David" Conine, State Director
(801) 524-4321
Roger Koon, Energy Coordinator
(801) 524-4301
www.rurdev.usda.gov/ut/

Vermont – New Hampshire
Molly Lambert, State Director
(802) 828-6080
Cheryl Ducharme, Energy Coordinator
(802) 828-6083
www.rurdev.usda.gov/vt/

Virginia
Ellen Matthews Davis, State Director
(804) 287-1550
Laurette Tucker, Energy Coordinator
(804) 287-1594 or (434) 392-4906 Ext 125
www.rurdev.usda.gov/va/

Washington
Mario Villanueva, State Director
(360) 704-7740
Mary Traxler, Energy Coordinator
(360) 704-7762
www.rurdev.usda.gov/wa/

West Virginia
Robert Lewis, State Director
1(800) 295-8228 or (304) 284-4860
Lisa Sharp, Energy Coordinator
(304) 284-4871
www.rurdev.usda.gov/wv/

Wisconsin
Stan Gruszynski, State Director
(715) 345-7600
Brenda Heinen, Energy Coordinator
(715) 345-7615 Ext 139
www.rurdev.usda.gov/wi/

Wyoming
Derrel Carruth, State Director
(307) 233-6700
Jon Crabtree, Energy Coordinator
(307) 233-6719
www.rurdev.usda.gov/wy/

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U.S. Department of Agriculture
Rural Development
Rural Business and Cooperative Service
1400 Independence Avenue, SW
Washington, DC 20250
Telephone: 202-690-4730
Website: www.rurdev.usda.gov

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