

THE FARM BILL ENERGY TITLE'S RECORD OF SUCCESS

Farm Bill Energy Title programs enable rural communities to contribute to the nation's energy renaissance. Working with these programs, farms, ranches and businesses are able to invest in innovative renewable energy and energy efficiency technologies, create jobs and build prosperity. The following stories represent just a handful of the successful outcomes from the full array of energy title programs.

BIOBASED MARKETS PROGRAM (SEC. 9002)

More than 1.5 million American workers produce biobased products, generating over \$127 billion in sales.

- ❖ Cortec Corp. in Saint Paul, MN, lists 34 biobased lubricant and anti-corrosion products in the BioPreferred® catalog.
- ❖ Ambertech in Paris, TX, produces certified 99 percent biobased, biodegradable lubricants that are used in energy, manufacturing, transportation, construction and agriculture.
- ❖ Renewable Lubricants in Hartville, OH, produces a biobased lubricant approved for military tactical applications.
- ❖ Laurel BioComposite in Laurel, NE, produces a biobased resin enhancer – made from distillers' grain – for thermoplastics.

THE BIOPREFERRED® PROGRAM SETS A PURCHASING PREFERENCE FOR FEDERAL AGENCIES AND CONTRACTORS ON MORE THAN 15,000 BIOBASED PRODUCTS IN 97 PRODUCT CATEGORIES. THE PROGRAM ALSO PROVIDES A VOLUNTARY USDA CERTIFIED BIOBASED LABEL TO MANUFACTURERS NATIONWIDE.

BIOREFINERY, RENEWABLE CHEMICAL, AND BIOBASED PRODUCT MANUFACTURING ASSISTANCE PROGRAM (SEC. 9003)

- ❖ Ryze Renewables Reno, with a loan from Jefferson Financial Federal Credit Union, is building a 40 million gallon per year biorefinery in Storey County, NV, to convert distillers' corn oil from ethanol plants into renewable diesel.
- ❖ Sapphire Energy built a commercial algae farm in Columbus, NM, creating more than 600 jobs during construction. After Sapphire received equity from private investors in 2013, it repaid its loan in full. Eventually, Sapphire sold the plant to Qualitas Health, based in Texas, to produce algae for human and animal nutrition.
- ❖ Multiple companies, working with rural lenders, are poised to finalize loans in the near future for commercial projects in California, Georgia, Texas, and other locations across the country.

THE SECTION 9003 PROGRAM WORKS WITH RURAL LENDERS TO SECURE FINANCING FOR COMPANIES BUILDING BIOREFINERIES. THIS PROGRAM UNIQUELY FOCUSES ON PROJECTS THAT COMBINE FIRST-OF-A-KIND TECHNOLOGIES AND AGRICULTURAL RAW MATERIALS TO PRODUCE RENEWABLE CHEMICALS, BIOBASED PRODUCTS AND ADVANCED BIOFUELS.

RURAL ENERGY FOR AMERICA PROGRAM (SEC. 9007)

More than 13,000 projects in all 50 states have received REAP awards since 2009, leveraging more than \$5 billion in private investment.

- ❖ The University of Georgia's energy audit program has helped 50 farms across the state lower energy costs through efficiency upgrades on more than 1,000 poultry houses.
- ❖ The Gary Balder Farm in Hamilton, MI, installed a solar system to offset 80 percent of electricity usage.
- ❖ Reed's Food Center in Arnold, NE, upgraded their freezer case and refrigeration compressors, decreasing energy use by 55 percent and lowering energy bills by \$20,000 annually.
- ❖ Reinford Farms in Mifflintown, PA, built a biodigester that processes manure from 630 dairy cows. The farm earns revenue by selling biogas and saves money by using the biodigester's heat to pasteurize milk, dry feed corn and heat its buildings and hot water.
- ❖ On his cattle ranch in Caputa, SD, Haven Stuck installed a solar system that produces almost half his annual electricity usage, for the water system, calving facilities, sheds, and heated shops.
- ❖ The Aspen Inn, in Fort Klamath, OR, generates 96 percent of its electricity from a rooftop solar energy system, saving up to \$700 a month on utility bills during the peak summer season.
- ❖ Athens Energy, in Maine, is building a new facility that will use wood waste from logging and timberland thinning to generate enough electricity to power 5,409 homes.

REAP PROVIDES GRANTS AND LOAN GUARANTEES TO THE BROADEST SPECTRUM OF ENERGY EFFICIENCY AND RENEWABLE ENERGY TECHNOLOGIES, BUILDING INFRASTRUCTURE FOR WIND, SOLAR, GEOTHERMAL, BIOENERGY, BIOGAS, BIOFUELS.

BIOMASS CROP ASSISTANCE PROGRAM (SEC. 9010)

BCAP has helped nearly 1,000 growers establish dedicated, non-food energy crops on nearly 49,000 acres.

- ❖ Aloterra works with 125 farmers in Ohio and Pennsylvania to harvest 4,000 acres of miscanthus. The company secured \$25 million in funds to build two manufacturing facilities in Ashtabula County, OH, creating more than 70 full-time jobs.
- ❖ Mt. Taylor Manufacturing is a partner in forest restoration and hazardous fuels reduction in the Cibola National Forest in New Mexico. Mt. Taylor employs 42 people, including local Navajo tribe members, and creates 18 more logging jobs.
- ❖ ReEnergy Holdings has purchased more than 8,500 tons of shrub willow for its facilities, under an 11-year contract with New York farmers. All energy from ReEnergy's Black River plant at Fort Drum Army Base comes from biomass.
- ❖ Rather than plow corn stover back into the field, Emmetsburg, IA, farmer Jay Gunderson now bales it and delivers it to the Project Liberty cellulosic ethanol plant.

BCAP PROVIDES MATCHING PAYMENTS TO FARMERS WHO PRODUCE AND DELIVER DEDICATED ENERGY CROPS TO NEXT-GENERATION BIOREFINERIES THAT GENERATE HEAT, POWER, RENEWABLE CHEMICALS, BIOBASED PRODUCTS, AND ADVANCED BIOFUELS. IMPORTANTLY, BCAP ALSO SUPPORTS HAZARDOUS FUELS REMOVAL FROM FORESTS TO REDUCE THE THREAT OF CATASTROPHIC WILDFIRES.