

# Rural Development Energy Programs

October 7, 2020



#### Background

- □Rural Development's First Energy Program, Section 9006, was authorized in 2002 Farm Bill (Title IX, Section 9006)
- ■2008 Farm Bill 9006 was reauthorized under Section 9007 and titled: Rural Energy for America Program (REAP)
- 2008 Farm Bill also created new energy programs
  - ☐Biorefinery Assistance (9003)
  - □Repowering Assistance (9004)
  - □Bioenergy Program for Advanced Biofuels (9005)
- 2014 Farm Bill reauthorized the energy programs
- 2018 Farm Bill reauthorized 3 of the 4, letting the Repowering Assistance program expire



Home

About RD

#### **Programs & Services**

All Programs

Browse by State

**Business Programs** 

Community Facilities Programs

Cooperative Services

**Electric Programs** 

#### **Energy Programs**

Single Family Housing Programs

Telecommunications Programs

Water & Environmental Programs

Multi-Family Housing Programs

**USDA LINC Training** 

HOME > PROGRAMS & SERVICES > ENERGY PROGRAMS

#### **Energy Programs**

Our programs, authorized by the Agricultural Act of 2014, offer funding to complete energy audits, provide renewable energy development assistance, make energy efficiency improvements and install renewable energy systems. We have programs that help convert older heating sources to cleaner technologies, produce advanced biofuels, install solar panels, build biorefineries, and much more. USDA Rural Development is at the forefront of renewable energy financing, with options including grants, guaranteed loans and payments.

#### **Rural Development Energy Programs**

- Advanced Biofuel Payment Program
- · Biorefinery, Renewable Chemical, and Biobased Product Manufacturing Assistance Program
- Higher Blends Infrastructure Incentive Program
- Rural Energy for America Program Energy Audits & Renewable Energy Development Grants
- Rural Energy for America Program Renewable Energy Systems & Energy Efficiency Improvement Loans & Grants

#### Other Resources

- USDA Energy Investment Map
- USDA Energy Matrix

### **Section 9007 - Rural Energy for America Program**

Rural Energy for American Program (REAP) provides
Grants and Guaranteed Loan funding for installation of
Renewable Energy Systems and
Energy Efficiency Improvements for Agriculture
Producers and Rural Small Businesses

#### **Agricultural Producer**



 Individual or entity that receives 51 percent or more of their gross income from agricultural production – crops, livestock, aquaculture, forestry operations, nurseries, dairies

## **Eligible Applicants**







 For-profit small business as defined by the Small Business Administration (SBA)

https://www.sba.gov/size-standards/

• Rural area or non-metro community of ≤ 50,000

#### **REAP Grant Assistance\***

Renewable Energy Systems			iency Improvements
Minimum Grant Request	<b>\$2,500</b> Total eligible project costs ≥ \$10,000	Minimum Grant Request	<b>\$1,500</b> Total eligible project costs ≥ \$6,000
Maximum Grant Request	<b>\$500,000</b> Total eligible project costs ≥ \$2 million	Maximum Grant Request	<b>\$250,000</b> Total eligible project costs ≥ \$1 million

<sup>\*</sup>Up to 25% of Total Eligible Project Costs

#### **REAP Guaranteed Loan Assistance\***

Minimum Loan Amount	<b>\$5,000</b> Total eligible project costs ≥ \$6,667
Maximum Loan Amount	<b>\$25 million</b> Total eligible project costs ≥ \$33.4 million
Details	<ul> <li>USDA guarantees a commercial loan; applicant must have a willing lender</li> <li>Terms are negotiated between the lender and borrower</li> <li>Fees, appraisals, equity &amp; collateral requirements apply</li> </ul>

<sup>\*</sup>Up to 75% of Total Eligible Project Costs

# **Eligible Technologies**

Energy I	Efficiency	Renewal	ble Energy
	Lighting	$\Diamond$	Solar
<b>€</b>	Heating	11.	Wind
*=	Cooling	•	Small Hydroelectric
111	Ventilation	¥	Anaerobic Digesters
	Fans	0	Biomass
	Automated Controls	<u> </u>	Geothermal
<b>◎</b> ੈ	Insulation		Wave/Ocean Power

#### **Project Cost Considerations**

#### **✓** Eligible Project Costs

- Equipment:
  - Purchase & installation
  - New or refurbished
- Post-application construction & facility improvements
- Retrofitting
- Professional service fees
- Permits & license fees
- Working capital, land acquisition (Guarantee loan ONLY with restrictions)

#### **○** Ineligible Project Costs

- Residential energy projects
- Equipment:
  - Farm tillage equipment
  - Used equipment
  - Vehicles
- Pre-application construction & facility improvements
- Application preparation or grant writer fees
- Line of credit
- Lease payments
- Payment to the applicant/business owner, beneficiary, or relative



# Project Examples

Rural Energy for America Program





# Renewable Energy System: Wind Turbine

- \$20,000 REAP Grant
- 90 kW wind turbine
- Generates 1.95 times farm's annual energy usage
- Excess production helps supports the energy grid





# Renewable Energy System: Anaerobic Digester

- \$100,000 REAP Grant & \$2.65 million REAP Guarantee
- 1 MW Anaerobic Digester
- Processes 600,000 gallons of animal waste into electricity
- Generates enough electricity to power 700 homes per year





Energy Efficiency Improvement: Refrigeration Units

- \$15,873 REAP Grant
- Energy efficient refrigeration
- Reduce annual energy usage by 71%
- Lower overhead costs in rural grocery store allows higher access to healthy foods at lower prices

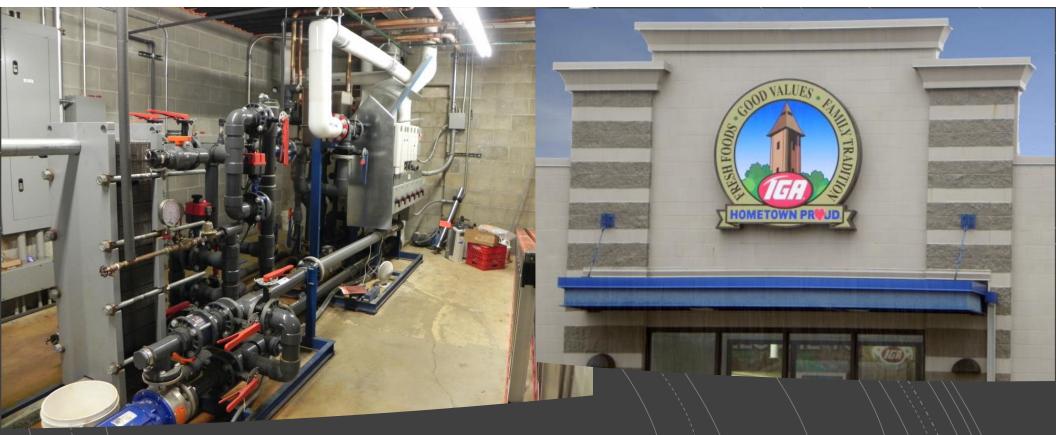




Energy Efficiency Improvement: Lighting

- \$6,126 REAP Grant
- High efficiency LED bulb upgrade
- Reduce annual energy usage 87%
- Save 169,000 kWh of electricity per year, or enough electricity to power 15 homes





Geothermal & Energy Efficiency Improvements

- \$49,650 REAP Grant
- Geothermal heat, energy efficient coolers & lighting
- 40% reduction in annual energy usage

# Section 9007 – Energy Audit & Renewable Energy Development Assistance Grants

Energy Audit & Renewable Energy Development
Assistance Grants (EA/REDA) assists rural small
businesses and agricultural producers by conducting and
promoting Energy Audits and providing Renewable
Energy Development Assistance

# **EA/REDA Eligibility**

What does this program do?	Who may apply?
Grantees assist rural small businesses and	State and local governments
agricultural producers by conducting and promoting:	<ul> <li>Federally-recognized Tribes</li> </ul>
1. Energy Audits (EA)	<ul> <li>A land-grant college or university, or other Institutions of Higher Education</li> </ul>
2. Renewable Energy Development Assistance (REDA)	Rural electric cooperatives
Improve energy efficiency	<ul> <li>Public power entities</li> </ul>
<ul> <li>Implement Renewable Energy technologies</li> </ul>	<ul> <li>An Instrumentality of a state, tribal, or local government</li> </ul>

# **EA/REDA Grant Assistance**

Maximum Grant Assistance	\$100,000
Details	A grantee that conducts Energy Audits requires recipient to cost share a minimum of 25% of the Energy Audit cost
Recipient	Assistance must be provided to an Agricultural Producer or Rural Small Business
Eligible Rural Area	Rural Small Businesses must be located in an eligible rural area

#### **Project Cost Considerations**

#### **✓** Eligible Project Costs

- Salaries directly related to the project
- Travel directly related to conducing energy audits or renewable energy development assistance
- Office Supplies
- Administrative Expenses up to a max of 5% of the grant
  - Utilities
  - Office Space
  - Operation Expenses

#### **○** Ineligible Project Costs

- Payment for construction-related activities
- Purchase or lease of equipment
- Payment of judgments or debt owed to the government
- Good or services provided by a person or entity who has a conflict of interest
- Costs incurred in preparing the application package
- Funding political or lobbying activities

## **REAP Application Deadlines**

November 2, 2020	> Set Aside Fund Competition-Grant Request \$20,000 or less
February 1, 2021	➤ EA/REDA Grant applications
March 31, 2021	<ul> <li>➤ Set Aside Fund Competition-Grant Request \$20,000 or less</li> <li>➤ Grant Request &gt; \$20,000</li> <li>➤ Combination Grant/Loan Request</li> </ul>
Continuous Application Cycle	➤ Guaranteed Loans

### Section 9005 – Advanced Biofuel Producer Payment Program

Advanced Biofuel Producer Payment Program (9005) supports the increased production of advanced biofuels through payments to eligible advanced biofuel producers

## 9005 Eligibility

What does this program do?	Who may apply?
Quarterly payments for actual quantity of	<ul> <li>Advanced Biofuel Producer*</li> </ul>
advanced biofuel produced	<ul> <li>Definition of advanced biofuel in 7 CFR Part 4288.102</li> </ul>
No minimum or maximum payment	<ul><li>Liquid, gas, or solid</li></ul>
Application deadline October 31, 2020	<ul> <li>Derived from renewable biomass, other than corn kernel starch</li> </ul>
	Final product
	<ul> <li>Produced in the United States</li> </ul>

<sup>\*</sup> An entity that blends advanced biofuels into a blended biofuel is not considered eligible under 9005

# Section 9003 – Biorefinery, Renewable Chemical, and Biobased Product Manufacturing Assistance Program

Biorefinery, Renewable Chemical, and Biobased Product
Manufacturing Assistance Program (9003) provides
Guaranteed Loan funding to assist in the development,
construction, and retrofitting of new and emerging
technologies in the areas of: advanced biofuels,
renewable chemicals, and biobased products

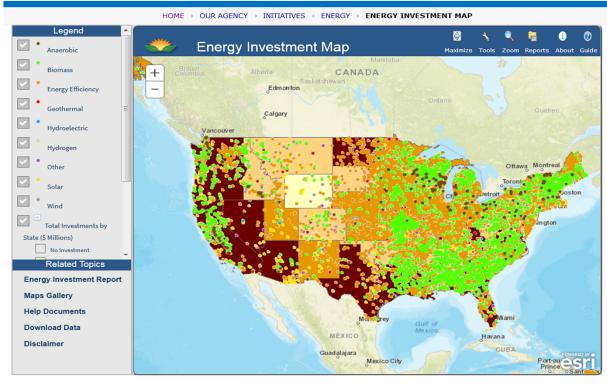
#### 9003 Guaranteed Loan Assistance

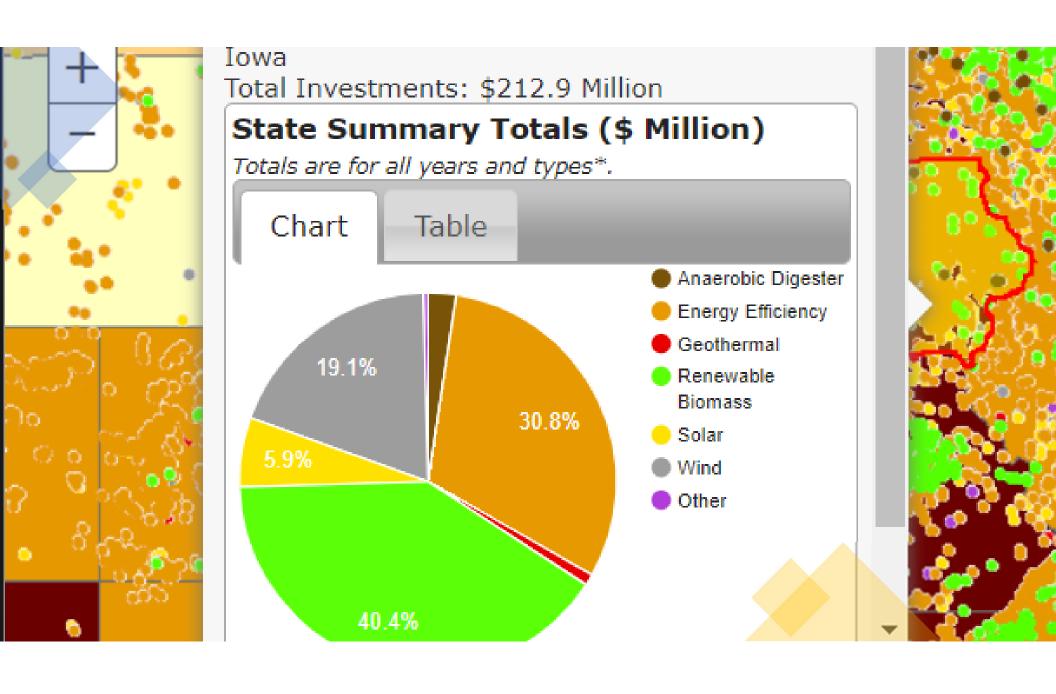
Maximum Loan Amount	<b>\$250 million</b> Up to 80% of Total Eligible Project Costs
Details	<ul> <li>USDA guarantees a commercial loan; applicant must have a willing lender</li> <li>Terms are negotiated between the lender and borrower</li> <li>Fees, appraisals, equity &amp; collateral requirements apply</li> </ul>
Eligible Projects	<ul> <li>Fund the development, construction and retrofitting of:</li> <li>Commercial-Scale Biorefineries using Eligible Technology</li> <li>Biobased Product Manufacturing facilities that use Technologically New Commercial-Scale processing and manufacturing equipment to convert Renewable Chemicals and other biobased outputs of Biorefineries into end-user products on a commercial scale</li> </ul>
Application Deadline	<ul> <li>Letter of Intent to apply due no later than 30 days prior to October 1, 2020 and April 1, 2021</li> <li><a href="https://www.rd.usda.gov/programs-services/biorefinery-renewable-chemical-and-biobased-product-manufacturing-assistance">https://www.rd.usda.gov/programs-services/biorefinery-renewable-chemical-and-biobased-product-manufacturing-assistance</a></li> <li>Contact Aaron Morris at (202) 720-0410 or <a href="maintain-aaron.morris@usda.gov">aaron.morris@usda.gov</a></li> </ul>

# **USDA Energy Investment Map**

https://www.usda.gov/energy/maps/maps/Investment.htm

- Provides information on USDA programs that support renewable energy and energy efficiency projects.
- The map displays investment location, type of energy, assistance provided and the associated USDA program.
- by state, county and congressional districts by total number of investments and total dollar amounts.





#### **How to Apply**

 Contact the USDA Rural Development Energy Coordinator in your state for application materials and resources

https://www.rd.usda.gov/files/RBS\_StateEnergyCoordinators.pdf

#### **Iowa - REAP Contact**

#### Khristan Kaufman

Iowa Energy Coordinator

**USDA Rural Development** 

210 Walnut Street, Room 873

Des Moines, IA 50309

(515) 284-4447

khristan.kaufman@usda.gov

www.rd.usda.gov/REAP





USDA is an equal opportunity provider, employer, and lender.