Rural Energy for America Program (REAP)



Committed to the future of rural communities.

03-07-2012



Purpose

Program is designed to promote energy efficiency and renewable energy development for agricultural producers and rural small businesses.



Applicant Eligibility

Applicant:

- must be an agricultural producer (Greater than 50% of income from farming operation).
- rural small business as defined by the SBA
 http://www.sba.gov/content/table-small-business-size-standards
- must be citizens of the U.S.
- must not have federal judgments or delinquent federal taxes



Project Eligibility

Project:

- Must be for the purchase of a renewable energy system
- Must be to purchase *energy efficiency improvements*.
- Must be for commercially available and replicable technology
- Must have technical merit
- Rural Small Business Projects must be located in a rural area. To check, go to:

http://eligibility.sc.egov.usda.gov/eligibility/welcomeAction.do

- Agricultural Producer projects have no rural limitations.
- Cannot be used for residential improvements.
- Cannot be used for ag. tillage equipment, used equipment, & vehicles.



Types of Eligible Projects

Energy Efficiency Improvements

- Freezers & Coolers
- Lighting Improvements, Window & Plumbing Upgrades, Insulation
- Replacement Grain Dryers
- Replacement Irrigation Units (diesel to electric, high presser to low presser, traveler to pivots)
- Greenhouse heating, lighting, and cooling improvements
- High efficiency motors, pumps, fans, blowers, compressors
- Upgrading / Replacing HVAC equipment
- Documented efficiency improvements per energy audit



Energy Efficiency Improvements **Cooler Upgrades**

Energy Curtains



Irrigation



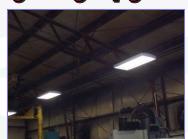
Motor Upgrades



Grain Dryer Replacement



Lighting Upgrades



Window & Door Upgrades



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Types of Eligible Projects

- Renewable Energy Systems
 - Wind
 - Solar
 - Biomass / Biofuel
 - Anaerobic Digester
 - Geothermal
 - Hydropower
 - Flex Fuel Pumps



Renewable Energy Systems

Solar



Wind



Bio-Energy



Anaerobic Digesters



Geo Thermal



Renewable Biomass



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Eligible Project Costs

- Post-application purchase and installation of equipment
- Post-application construction or project improvements
- Permit Fees
- Retrofitting (Post- Application)
- Professional Service Fees, except application preparation
- Feasibility Studies (required prior to application submission)
- Business Plans (required prior to application submission)
- Energy Audits (required prior to application submission)

Program funds cannot be used for projects already installed.



Rural Energy for America Program (REAP) Grants

Grant Request	Up to 25% of eligible project costs Annual funding cycle State and Nationally competitive Grants > \$20,000 & Grant \$20,000 or less		
Grant Amounts	Depends on project type		
•Energy Efficiency	Minimum: \$1,500 Maximum: \$250,000		
•Renewable Energy	Minimum: \$2,500 Maximum: \$500,000		
Grant Uses	Purchase and installation of renewable energy systems or energy efficiency improvements		
Applicant Types	Ag Producers and Rural Small Businesses		
Community size	Population up to 50,000 for Rural Small Business No Limitations for Agricultural Producer		

Grant Applications

Simplified Application

- Projects with Eligible Costs \$200,000 or less
- More streamlined technical report required.
- Examples can be provided.

Full Application

- Projects with Eligible Costs over \$200,000
- Requires additional documentation for the technical report
- Additional Financial Documentation required.



Rural Energy for America Program (REAP)

Loan Guarantees

% of Loan Guaranteed	Up to 85% guaranteed Guaranteed loan up to 75% of total eligible project costs
Loan Amounts	Minimum: \$5,000 Maximum: \$25 Million
Loan Terms	Real Estate – 30 yrs Machinery & Equipment – 20 yrs Term Working Capital – 7 yrs
Fees	One-time guarantee fee of 1%. Annual renewal fee of 0.25% on outstanding balance
Loan Uses	Purchase and installation of renewable energy systems or energy efficiency improvements
Borrower Types	Ag Producers and Rural Small Businesses
Community size	Population up to 50,000 for Rural Small Business No Limitations for Agricultural Producer

REAP Grant/Loan Guarantee "Combination"

Maximum of 25% GRANT	Grant regulations apply.
Maximum of 50% LOAN GUARANTEE	Loan Guarantee regulations apply.
Fees	Loan Guarantee fee applies.
Uses of Funds	Purchase and installation of renewable energy systems or energy efficiency improvements
Borrower Types	Ag Producers and Rural Small Businesses
Community size	Population up to 50,000 for Rural Small Business No limitations for Agricultural Producers
BENEFITS	Combination projects <u>may</u> receive funding priority over grant only requests.

Rural Energy For America Program (REAP) Feasibility Study

For Renewable Energy Systems

 Grant funding available to conduct feasibility study for renewable energy systems.

(Feasibility Study required for any REAP Application in excess of \$200,000)

- Applicant Eligibility Agricultural Producer or Rural Small Business
- Maximum grant amount is \$50,000 or up to 25% of total eligible costs, which ever is less
- Funds held at national level Competitive selection



Rural Energy for America Program (REAP)

Energy Audits and Renewable Energy Development Assistance – EA/REDA

- Grant funding to assist with cost of performing energy audits or technical assistance for renewable energy projects (site selection, resource assessments)
- Applicant Eligibility Colleges and Universities, units of State or Local Government, Rural Electric Cooperatives, Public Power Entities
- Maximum grant amount is \$100,000
- Funds held at national level Competitive selection



RURAL DEVELOPMENT TOOLS

- FACT SHEET ON PROGRAM
- SAMPLE APPLICATION OF SIMPLIFIED PROJECTS (<\$200,000)
- COMPUTER TEMPLATES GRANTS & GUARANTEED LOANS
- SCORING SHEET WITH SUGGESTIONS
- TECHNICAL REPORT WORKSHEET FOR SIMPLIFIED PROJECTS
- TECHNICAL REPORT TIDBITS / SUGGESTIONS



Michigan REAP — Last 3 Years 2009 2010 2011 MI Grant Allocation \$518,895 \$1,879,450 \$1,306,991

Grant Apps. Received 53 76 202

Selected for Funding 33 67 83

% Selected 62% 88% 41%

Funds Obligated \$1,646,642 \$2,372,414 \$2,374,354



HISTORICAL REAP ACTIVITY - MI (2002-2011)

Туре	Grant (\$)	Loan (\$)	Projects
Renewable Energy			
Wind	\$271,397	\$0	13
Geothermal	\$193,942	\$0	12
Anaerobic Digester	\$2,748,683	\$0	6
Biomass / Biofuel	\$2,091,823	\$700,750	16
Solar Hybrid (Geothermal & Solar)	\$1,412,090 \$55,724	\$154,500 \$0	59 2
Total Renewable	\$6,773,659	\$855,250	108
Energy Efficiency			
General	\$603,036	\$0	30
Grain Dryer Replacement	\$2,128,540	\$811,720	64
Energy Curtain	\$208,660	\$0	7
Total EE	\$2,940,236	\$811,720	101
REAP Feasibility	\$225,246	N/A	11
REAP Energy Audit	\$300,000	N/A	3
TOTAL REAP	\$10,239,141	\$1,696,970	223

Program Levels - Fiscal Year 2012

- \$12,500,000 Million for Grants
- \$48,500,000 Million for Loan Guarantees
- \$880,000 Million for Energy Audits
- \$500,000 Feasibility Studies



Michigan REAP Allocations – FY2012

• Grants \$20,000 or less

\$140,000

• Grant greater than \$20,000

\$146,000

Guaranteed Loans

\$1,382,206



Case Study - Irrigation System Improvements





- 2010 REAP Grant
- Total Project Cost \$46,835
- Project to replace existing diesel engine with electric motor and variable frequency drive to power the crop irrigation well pump.
- Energy Audit projected annual savings of 115,823 kWH or \$5,176 – Payback est. 9 years
- Actuals for 2010 73,750 kWH
 2011 –140,606 kWH

Case Study – Grain Dryer Replacement



- 2010 REAP Grant
- Total Project Cost \$127,746
- Project is to replace existing inbin dryer with a Brock SQ 36A Grain Dryer.
- Energy Audit projected annual savings of 44%, which is
 1,289.39 MBTUs or \$17,860 Payback est. 7.2 years



Case Study - Anaerobic Digester



- 2005 REAP grant
- Total Project Cost \$2,145,038
- Project is to purchase and install a complete mix, two stage Anaerobic Digester on 2300 head dairy. Goal is to make farm self sufficient & sell excess to utility. Payback 8.7yrs
- Actuals for 2007 3,748 MW

2008 – 3,681MW

2009 - 3,402 MW

2010 - 4,931 MW

2011 - 5,169 MW

Application Time Lines

• Grants March 30,2012

• Guaranteed Loans June 29, 2012

• Combinations March 30,2012

(Grant / Guaranteed Loan)

• Feasibility Study Grant March 30, 2012

• Energy Audit Grant February 21, 2012



Business Programs

Business and Industry Guaranteed Loans Rural Energy for America Program Grants & Loans Rural Business Enterprise Grants

Value Added Producer Grants

Renewable Energy Program Loans & Grants Intermediary Re-lending Program Loans

Rural Economic Development Loans and Grants

Cooperative Development Assistance

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USDA – Rural Development Jim Turner, State Director



