

Welcome!

Solar Panels & Your Farm

Local Educational Event

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United States Department of Agriculture

USDA Rural Development

Business ProgramFunding Opportunity





Rural Business Programs

- Business & Industry Guaranteed Loans (B&I)
- Rural Energy for America Program (REAP)
- Rural Economic Development Loans/Grants (REDLG)
- Intermediary Relending Program (IRP)
- Rural Business Development Grants (RBDG)
- Value Added Producer Grants (VAPG)

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Rural Energy for America Program (REAP)

- Farmers and rural small businesses eligible
- Purchase renewable energy system or make energy efficiency improvements
- 25% grant eligible project costs
- Guaranteed Loans available

FCS Financial

Grant Funding

 Grants may be made for up to 25% of eligible project costs

Renewable energy max grant: \$500,000

- Minimum: \$2,500

• Energy efficiency max grant: \$250,000

- Minimum: \$1,500

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REAP Guaranteed Loans

- · Normally 80% guarantee
 - 85% for loans \$600,000 or less
 - 70% for loans greater than \$5 million
- Loan amount limited to 75% of total eligible project costs
- Maximum guaranteed loan amount: \$25 million

FCS FINANCIAL



- Grain dryer replacement
- Solar
- Biomass furnaces (thermal conversion)
- Small wind
- Geothermal (heat pump) HVAC
- Biomass pelletizer (mfg pellet fuel)
- Anaerobic digesters
- Energy Efficiency building improvements (lights, insulation, windows, HVAC)

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Rural Energy for America Program (REAP)

- · Ineligible uses
 - Residential
 - · Agricultural equipment
 - Used equipment
 - Vehicles
 - · Expenses incurred before application is received





Application deadlines:

October 31, 2018 for grant requests of \$20,000 or less April 1, 2019 for over and under \$20,000 grant requests

Open application cycle

Apply before you start project

Application templates

Competition for funds – 2 or 5 times Growing Relationships. Creating Opportunities.™





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Rural Energy for America Program (REAP)

Funding:

FY '17 – Allocation \$824,000

FY '17 - Obligated \$962,000 on 49 projects

FY '17 – most REAP grants in the country

FY '18 -- \$832,000 allocation

FY '18 -- \$866,797 obligated - 52 projects





Applicants will need to obtain a DUNS (Data Universal Numbering System) number and register that number in the System for Awards Management (SAM.gov) <u>prior</u> to submitting an application.

Obtain a <u>free</u> DUNS number by calling 1-800-234-3867 or go to: <u>http://fedgov.dnb.com/webform</u>

SAM Registration Cage Code, register at <u>no charge</u> at: <u>https://www.sam.gov</u> or call 1-866-705-5711

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Rural Energy for America Program (REAP) Energy Audit Assistance

https://reap.missouri.edu/

(573) 882-2731

mufsbreap@missouri.edu

Grant writers are available upon request





Scoring:

- 1.) Quantity of Energy Generated, Replaced or Saved 25 points per grant or loan dollar requested
- 2.) Percent energy replaced or saved -- 15 points
- 3.) Environmental benefits 5 points
- 4.) Commitment of funds 20 points
- 5.) Size of REAP request 10 points EEI grant request of less than \$125,000 RES grant request of less than \$250,000
- 6.) Previous grantee or borrower 15 points
- 7.) Simple payback 15 points
- 8.) State Director/Administrator 10 points

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Websites

Missouri USDA Rural Development:

http://www.rd.usda.gov/mo

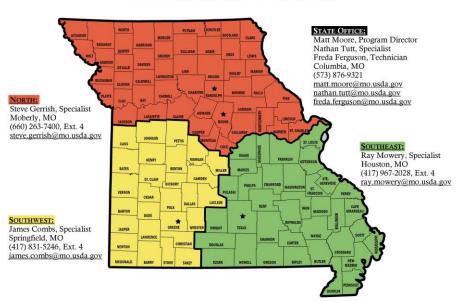
Missouri Business Webpage:

https://www.rd.usda.gov/programs-services/all-programs/business-programs

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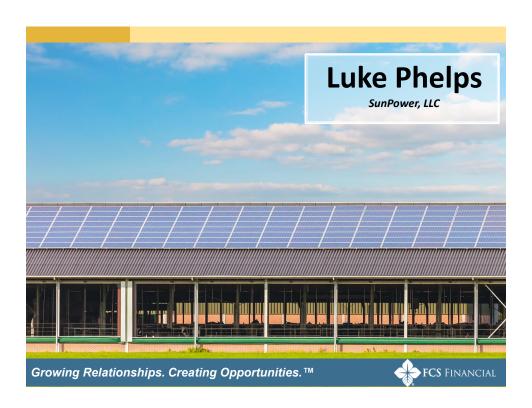
USDA RURAL DEVELOPMENT — MISSOURI BUSINESS PROGRAM CONTACTS



Questions?













Sun Power LLC

Our Commitment

- -Clean Affordable Energy
- -Dependable Service
- -Jobsite Excellence





General Terminology and Equipment

- Solar Module/Panel
- Inverter
- Racking
- Ground Mount v. Roof Mount
- Grid vs. Off-Grid
- Annual vs. Monthly Net Metering





Solar System Basics



- -No moving parts
- -No input cost for fuel
- -Long warranties
- -Proven technology
- -Production guaranteed (Backed by Van Meter Inc.)





How Does The System Work

- Solar modules convert sunlight to electricity
- Inverter converts DC to AC
- AC power from the solar system supplies power to your hog barn, etc.
- The grid supplies power to cover your remaining needs
- When the grid is down, the inverter shuts down the solar system
- Your transfer switch engages and your generator backs up your power
- Generator is your backup supply in emergencies
- Our goal is to offset 65-90% of your electricity needs.
- Grid supplies the rest



Net Metering

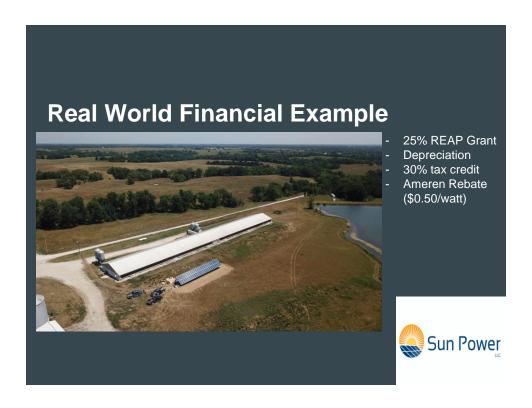
Your total power usage

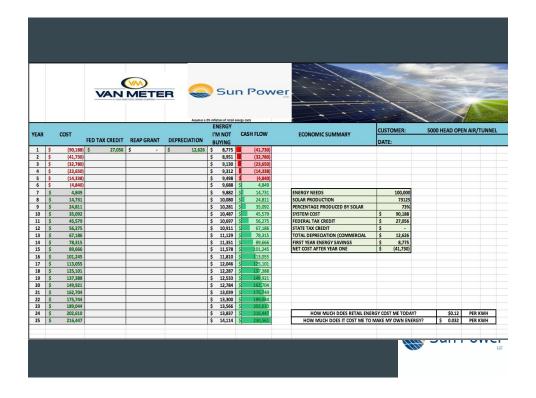
Your total solar production

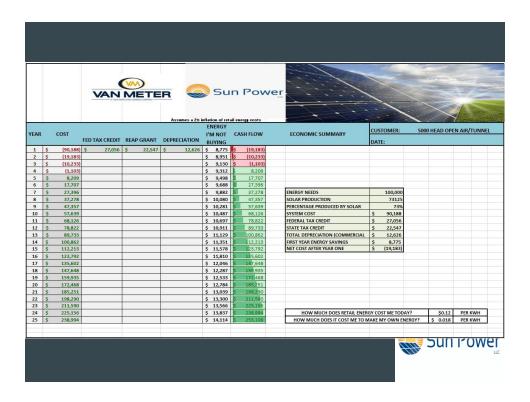
You pay the difference

(or goal is to produce 65-90% of your needs)





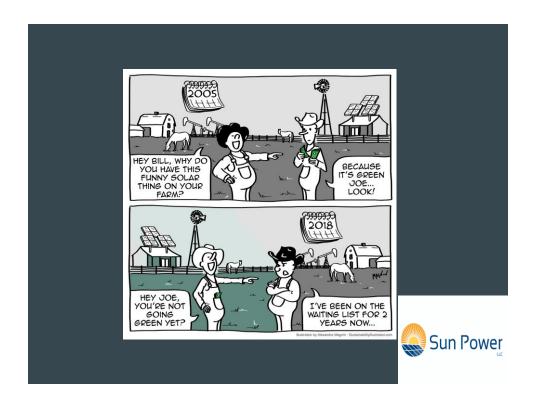




Steps To Get Started

- Gather 1-2 year of electric bills so we can analyze your needs
- Get a site evaluation done by one us
- Start the REAP grant application
- Get a DUNS number
- SAM number
- We start your permit process with electric company







Loan Options

• Term: 1-10 year loan

Interest Rate: Fixed or adjustable rate

Payment Frequency: Monthly or annual,

payment matched to income

Collateral: Real estate, equipment

Loan Process: Application, gather

financials (balance sheet,

tax returns, scope of operation and cash flow)

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Lease Options: Farm Credit Leasing

Term: Typically 36-84 months

• Interest Rate*: 5.95%*

Payment Frequency: Monthly or annual

• Collateral: Equipment

*As of 10/15/18





