REAPing
Energy Project Success throughout the Southeast

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Tara Adams, a single-mom, poultry producer, Haleyville, AL-
Energy cost of $14.13 per 1000 pounds broilers was consuming 30 cents of every dollar she was getting for her birds.

Results of $20,000 REAP Grant:
Annual Energy Use Reduction – 31%
Payback Period – 3 years
Survey of 40 Mississippi REAP Grant Recipients (poultry)

- Annually Saving 6% on Electricity and 41% on Propane
- Annual Value of $12,000 per Producer
- Combined Annual Savings of 28.7 Billion BTUs, equal to 314,000 gallons of propane

Great American Shrimp, Port St. Joe, FL:

300 freshwater acres producing 200 tons of Pacific White Shrimp annually

REAP Project ($9,700 grant):
Solar oxygen monitoring system with Computer Controller for Pond Aerators

Annual Energy Reduction: 36%
Payback Period: 5.6 years
$6,700 REAP grant for solar powered oxygen monitoring units with computer controller for pond aerators

21% annual energy savings
6 year payback period

Jubilee Farms, catfish producer, Sunflower County, MS:
Installed 1600-ft. deep well to extract 82º water for fish hatchery. Eliminates the need to heat 60 million gallons per year.

“The system is performing above projections, both in temperature of water we’re getting up and the volume. It’s saving me $30,000 a year in energy costs.” - Leigh Holland, Jubilee Farms, July 2011
Spring Hill Farm, Pork Producer, Halifax County, VA: $3,300 REAP grant for more efficient fans and water heaters in farrowing houses.
Annual Energy Savings: 9%
Payback Period: 2.7 years
South Alabama Grocers, Ozark, AL, a small, independent, family-owned grocery employing 28 …

… replaced old inefficient refrigerated display cases.
Annual energy cost savings: $53,000
Payback period: 6.4 years.
200 KW solar array designed for drip irrigation system of a Georgia pecan orchard.

$800,000 project installed with help of a REAP grant.

"REAP is important and helps rural, small businesses and ag producers jump-start solar energy projects that serve as excellent sources for long term electrical power sources in rural areas. Using REAP grants to help drought-proof orchards and croplands is becoming vital to farmers. Not only does solar driven irrigation work well, it increases property value. Solar panels lower operating costs and improve farmers' bottom line. That translates right into our kitchens."

Robert E. Green, CEO
Greenavations Power, LLC
rgreen@greenavations.com
Beasley Forest Products, Georgia

- Hardwood sawmill
- Expansion plans for on-site dry kiln were stymied by high fossil fuel costs
- Grant helped biomass compete: capital costs on par with gas boiler.
- Using wood residues.
- Less waste, more jobs and income.

Wood-Burning Heating System in AR to heat 2 broiler houses ...

Annual reduction in propane consumption: 90%
Payback Period: 3.3 years
## Trend in REAP Applications

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<thead>
<tr>
<th>State</th>
<th>REAP Applications Received (number)</th>
<th>$ REAP Funds Requested</th>
<th>$ REAP Funds Available</th>
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<td>TOTAL</td>
<td>314 501 $17.3 million $3.5 million</td>
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## Partners Promoting REAP Participation

- State Commodity Groups
- Farm Bureau
- Extension Service
- USDA-Rural Development
- Resource Conservation & Development Councils (RC&Ds)
REAP Mandates Private Investment…

$3 in private funds for every $1 in REAP grant funds.

REAP Creates Jobs

18.45 jobs are created from each $1 million invested in Energy Efficiency Improvements by small businesses and agricultural producers.

($54,200 per job)
