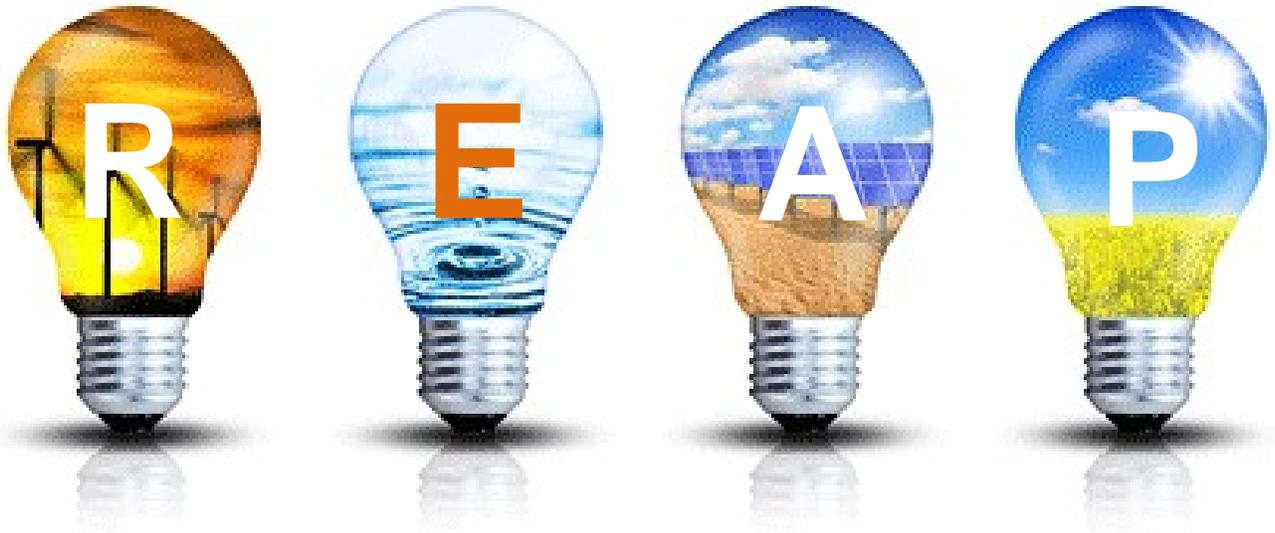




Rural Development

United States Department of Agriculture



# Rural Energy for America Program

## MN REAP Awards Summary

Fiscal Year 2015

# Table of Contents

<b>PROGRAM SUMMARY .....</b>	<b>1</b>
<b>APPLICATION AND COMPETITION ANALYSIS .....</b>	<b>3</b>
<b>Under \$20,000 Grant Set-aside .....</b>	<b>3</b>
<b>Competition 1 – State Allocation .....</b>	<b>3</b>
<b>Competition 2 – National Office Pool .....</b>	<b>3</b>
<b>Unrestricted Funding .....</b>	<b>4</b>
<b>Competition 3 – State Allocation Round 1 .....</b>	<b>4</b>
<b>Competition 4 – State Allocation Round 2 .....</b>	<b>5</b>
<b>Competition 5 – National Office Reserve .....</b>	<b>5</b>
<b>GEOGRAPHIC LOCATION OF AWARDEES .....</b>	<b>7</b>
<b>LIST OF AWARDEES .....</b>	<b>9</b>

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## PROGRAM SUMMARY

The following table represents a summary of REAP investments in FY 2015 including the overall success, distribution of technologies amongst the total awards, and the estimated energy savings or generation.

**Table 1. General Summary**

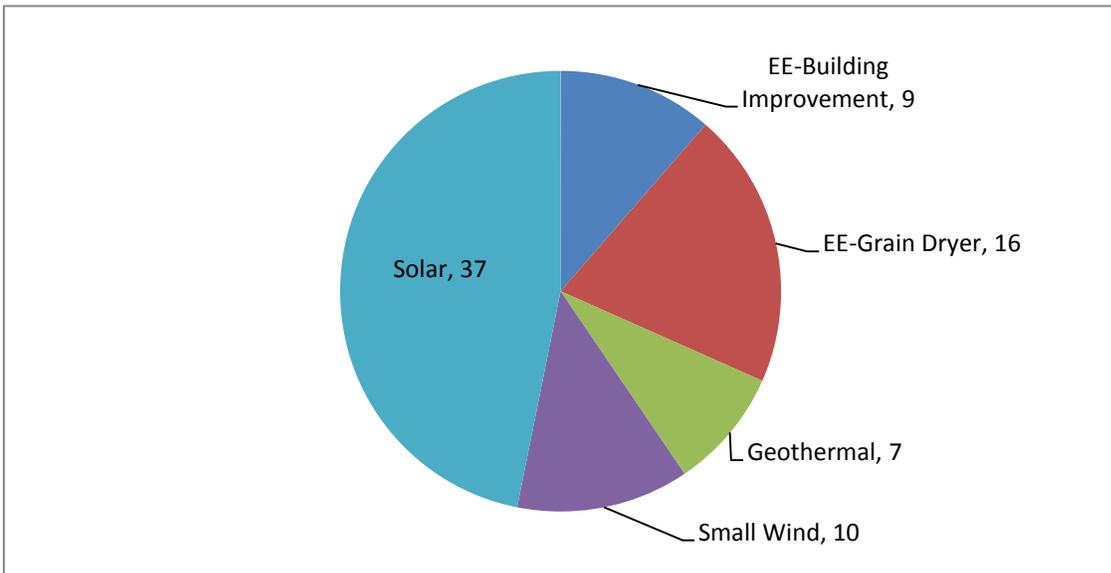
<b>Total 2015 Grants Awarded:</b>	<b>79</b>
<b>Total 2015 Applications Received:</b>	<b>247</b>
<b>Percentage Awarded:</b>	<b>32%</b>
<b>Total 2015 Grant Amount Awarded:</b>	<b>\$2,221,929</b>
<b>Total 2015 Grant Amount Requested:</b>	<b>\$7,885,586</b>
<b>Average Grant per Project:</b>	<b>\$28,117</b>

**Table 2. Awards by Technology**

	<b>#</b>	<b>%</b>	<b>\$ Amount</b>
<b>Renewable Energy: Solar</b>	<b>37</b>	<b>47</b>	<b>\$1,236,414</b>
<b>Energy Efficiency: Grain Drying Systems</b>	<b>16</b>	<b>20</b>	<b>\$435,074</b>
<b>Renewable Energy: Wind</b>	<b>10</b>	<b>13</b>	<b>\$335,358</b>
<b>Energy Efficiency: Building Improvements</b>	<b>9</b>	<b>11</b>	<b>\$149,003</b>
<b>Renewable Energy: Geothermal</b>	<b>7</b>	<b>9</b>	<b>\$73,984</b>



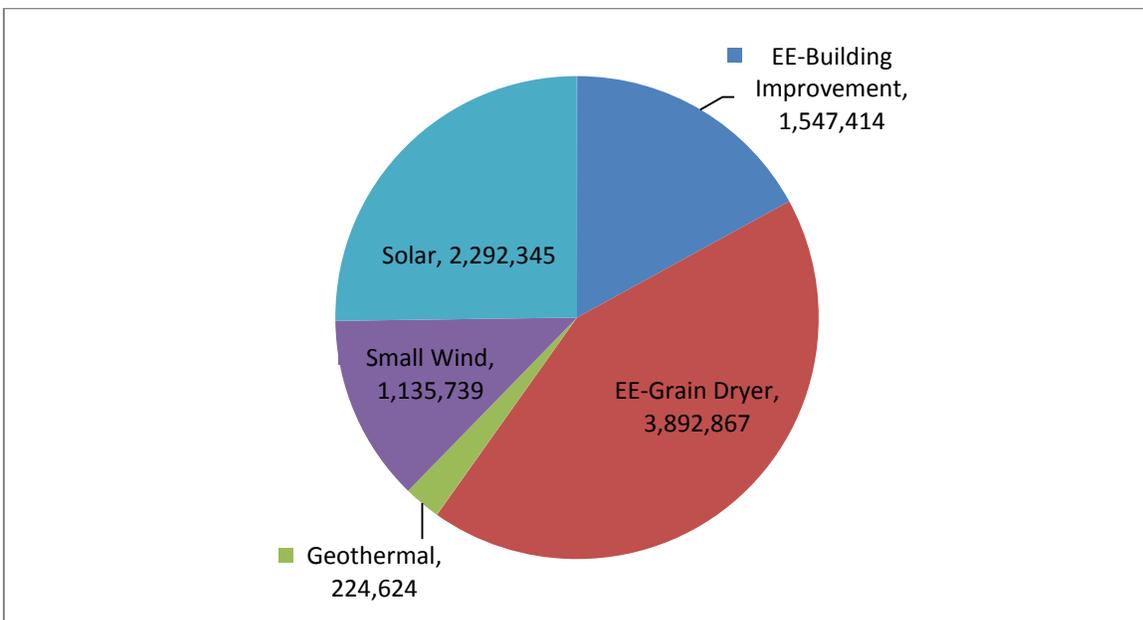
**Chart 1. Technology Distribution**



**Table 3. Project Energy Savings/Generation**

<b>Potential Annual Energy Savings for Energy Efficiency Projects:</b>	<b>5,493,285 kwh</b>
<b>Equivalent Households (EE):</b>	<b>506</b>
<b>Potential Annual Energy Generated From Renewable Energy:</b>	<b>3,599,705 kwh</b>
<b>Equivalent Households (RE):</b>	<b>332</b>
<b>Total Equivalent Households (EE+RE):</b>	<b>838</b>

**Chart 2. Projected Energy Saved or Generated per Technology (kWh)**



# APPLICATION AND COMPETITION ANALYSIS

## UNDER \$20,000 GRANT REQUEST SET-ASIDE

### Competition 1 – State Allocation – Projects Requesting less than \$20,000 Grant

At the time of the April 30, 2015 deadline, the Minnesota office had seen 102 applicants requesting \$20,000 or less in grant funds. The total amount of requests for these projects was \$1,167,348.

The Minnesota allocation for projects requesting less than \$20,000 was \$187,000. The funds were spent on 16 projects which included 10 Solar PV systems, 4 energy efficient building improvements such as LED retrofits and 2 energy efficient grain drying system. Of the total selected, 12 projects

received 5 State Director points and the cut-off score was 71.61.

There were 5 State Director points assigned to solar projects and to applicants located in a poverty area; were considered a member of a under or unserved group; or a manufacturing business. Up to 10 points were awarded if the applicant and project met 2 of the criteria.

**Figure 1. Under \$20,000 Awards Funded with State Allocation**

Technology	Number of Projects	Sum of Grant
EE-Building Improvement	4	33,286
EE-Grain Dryer	2	35,607
Solar	10	116,293
<b>Grand Total</b>	<b>16</b>	<b>185,186</b>

### Competition 2 – National Office Pool – Project Requesting less than \$20,000 Grant

The remaining 86 projects then competed in the National Office Pool which consisted primarily of unused funds by other states. There were 29 projects selected to receive funds from the National Office pool totaling \$430,623. In total the National Office competition had \$3.4 million in funds available and awarded grants to 236 projects, including the 29 in Minnesota. These consisted of 10 energy efficient grain drying systems, 9 Solar PV systems, 6 geothermal systems for direct use, 3 small wind turbines and one energy efficient building improvement project.

Because the source of the funds was from the National Office, the RBS Administrator was responsible for assigning points in this competition. The points were given for geothermal, wind and anaerobic digester systems (5) and projects located in high poverty areas and Strike force counties (10). Out of the 29 funded projects, 9 received Administrator points. The lowest scoring project which received funds had a score of 64.9 and the cut-off nationally was 64.66.

**Figure 2. Under \$20,000 Awards Funded from National Office**

Technology	Number of Projects	Sum of Grant
EE-Building Improvement	1	\$20,000
EE-Grain Dryer	10	\$165,262
Geothermal	6	\$69,594
Small Wind	3	\$59,250
Solar	9	\$116,517
<b>Grand Total</b>	<b>29</b>	<b>\$430,623</b>

**Summary – Under \$20,000 request set aside competitions.**

Overall, of the 102 project competing for the under \$20,000 set aside, 45 projects were awarded funds of \$615,809.

The overall success rate of projects requesting under \$20,000 was 44%. Individual technology success rates can be seen below.

**Figure 3. Under \$20,000 Set-aside Summary**

Technology	Applications Received	Projects Awarded	Percentage Success	Sum of Grant
EE-Building Improvement	5	5	100%	\$53,286
EE-Grain Dryer	56	12	27%	\$200,869
Geothermal	11	6	55%	\$69,594
Small Wind	3	3	100%	\$59,250
Solar	27	19	70%	\$232,811
<b>Grand Total</b>	<b>102</b>	<b>45</b>	<b>44%</b>	<b>\$615,810</b>

**UNRESTRICTED GRANT APPLICATIONS**

**Competition 3 – State Allocation – Unrestricted – Project requests received on or prior to April 30, 2015**

This competition consisted of 94 projects requesting greater than \$20,000 and 57 projects requesting less than \$20,000 not selected in the previous competition for a total of 151 projects requesting \$5,494,800. The state allocation was \$640,500 and was awarded to 8 projects for a total amount of \$620,639. The remaining funds were to be used in the next competition.

The project receiving funding consisted of 5 Solar PV systems, 2 energy efficient building projects and 1 small wind turbine.

The entire project list awarded received some State Director points and the funds awarded projects scoring at least 76.12 points.

**Figure 4. Unrestricted Awards Funded with State Allocation**

Technology	Number of Projects	Sum of Grant
EE-Building Improvement	2	\$68,331
Small Wind	1	\$35,750
Solar	5	\$516,558
<b>Grand Total</b>	<b>8</b>	<b>\$620,639</b>

**Competition 4 – State Allocation – Unrestricted – Project requests received on or prior to June 30, 2015**

Between May 1 and June 30, another 45 applications were submitted so a total of 188 applications requesting \$6,499,779 were competing for the second round of state allocated funds. There were 19 projects funded for \$656,979. The projects consisted of 13 solar projects, 2 energy

efficient building improvements, 2 energy efficient grain drying system, 1 small wind turbine and 1 geothermal system.

Of the 19 projects awarded funds, 15 projects were awarded State Director points. Projects needed to receive a score of 72.89 to be awarded funds in this round.

**Figure 5. Unrestricted Awards Funded with State Allocation**

Technology	Number of Projects	Sum of Grant
EE-Building Improvement	2	\$27,386
EE-Grain Dryer	2	\$96,907
Geothermal	1	\$4,390
Small Wind	1	\$41,250
Solar	13	\$487,046
<b>Grand Total</b>	<b>19</b>	<b>\$656,979</b>

**Competition 5 – National Office Reserve – Unrestricted – Project requests received on or prior to June 30, 2015**

The remaining 169 projects then competed in the final competition of the fiscal year, the national office reserve. Minnesota received awards for 7 projects out of the 62 selected. The projects consisting of 5 wind turbines and 2 energy efficient grain drying systems. The total awards were \$336,406 for those projects out of the \$9.6 million available.

The minimum score needed to be awarded funds was 72.02. The RBS Administrator’s points were given to areas in high poverty and Strike force counties. No projects awarded in the National Office reserve received any additional points.

**Figure 6. Unrestricted Project Award from National Office**

Technology	Number of Projects	Sum of Grant
EE-Grain Dryer	2	\$137,298
Small Wind	5	\$199,108
<b>Grand Total</b>	<b>7</b>	<b>\$336,406</b>

**Summary – Unrestricted Competitions**

Overall, 188 projects competed in three Unrestricted grant request competitions. There were two state competitions and 1

National office reserve competition. The figure below represents the success of each technology.

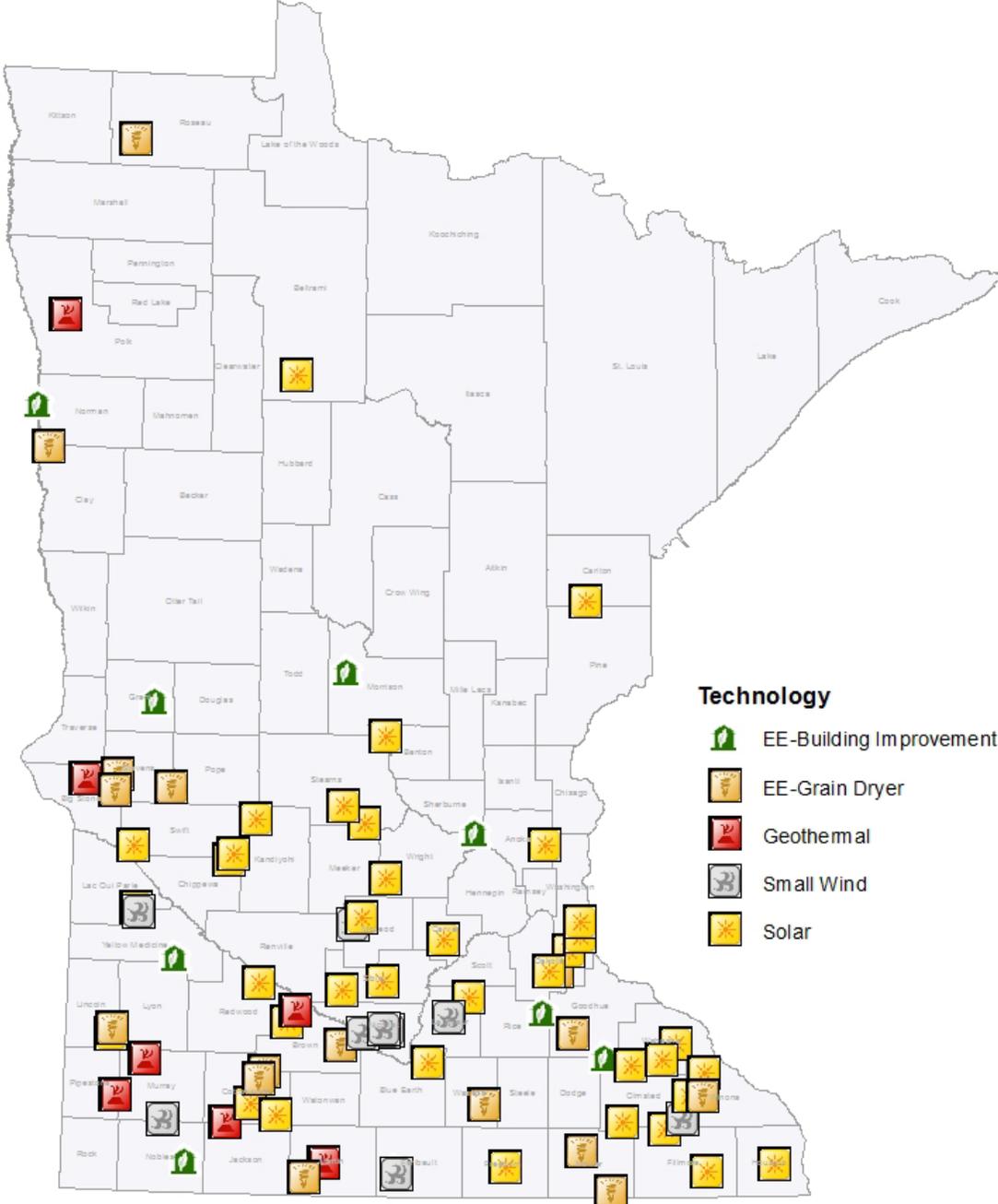
**Figure 7. Summary of Unrestricted competition success by technology**

Row Labels	Applications Received	Projects Awarded	Percentage Success	Sum of Grant
Biomass	1	0	0%	0
EE-Building Improvement	11	4	36%	95,717
EE-Grain Dryer	104	4	4%	234,205
Geothermal	10	1	10%	4390
Small Wind	16	6	44%	276,108
Solar	53	18	34%	1,003,604
<b>Grand Total</b>	<b>188</b>	<b>34</b>	<b>18%</b>	<b>1,614,024</b>

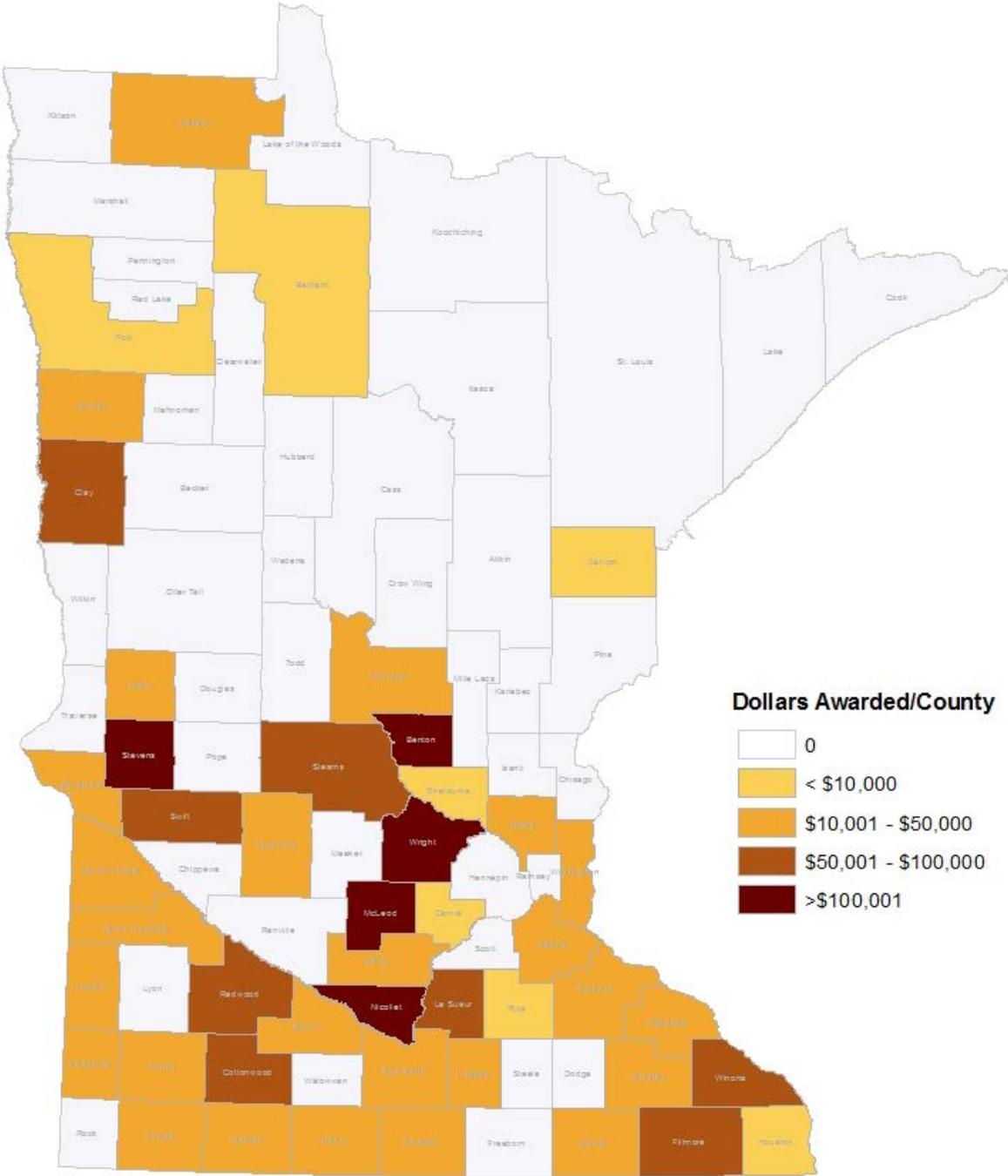
# GEOGRAPHIC LOCATION OF AWARDEES

The following maps indicates the geographic location of the 2015 REAP Awardees in Minnesota. An interactive map detailing the project locations is available here: [USDA RD REAP Awardees 2015 - Minnesota](#)

Map 1. Location of Individual Awards by Technology.



Map 2. Distribution of REAP Grant Funds by County



## LIST OF 2015 AWARDEES (ALPHABETICAL ORDER)

Recipient Name	County	Grant	Project Description
Alpha Foods, LLP	Yellow Medicine	\$15,245	Energy Efficiency - Building Improvement
Alternative Energy Solutions LLC	Winona	\$10,000	Solar
Barrett Care Center, Inc.	Grant	\$19,881	Energy Efficiency - Building Improvement
Behrends, Timothy R.	Washington	\$10,809	Solar
Blaine Borgen Farms	Clay	\$87,500	Energy Efficiency - Grain Dryer
Blue Line Travel Center, Inc.	Nobles	\$47,097	Energy Efficiency - Building Improvement
Bollinger Farms LLC	Winona	\$49,798	Energy Efficiency - Grain Dryer
Brent Krohn Wind Power LLC	Nicollet	\$39,500	Wind
Broin, Lowell	Goodhue	\$28,407	Energy Efficiency - Grain Dryer
Bryce Krohn Wind Power LLC	Nicollet	\$39,500	Wind
Carver County Commercial Properties, LLC	Carver	\$9,250	Solar
CE Murphy Properties LLC	Sherburne	\$4,095	Energy Efficiency - Building Improvement
Christensen, Mike	Redwood	\$19,370	Solar
Christians, Douglas E	Stevens	\$14,890	Energy Efficiency - Grain Dryer
Coorain, Inc	Murray	\$4,390	Geothermal
Cuperus, Burend	Murray	\$19,750	Wind
Donnay, Kevin H	Stearns	\$18,507	Solar
Eggert, Ernest	Lac qui Parle	\$14,812	Solar
Gartzke's Blue Earth Greenhouse	Faribault	\$7,505	Energy Efficiency - Building Improvement
Gosch's Properties, LLC	Morrison	\$20,000	Energy Efficiency - Building Improvement
Graves, Teresa	Carlton	\$9,875	Solar
Haas, Jason	Sibley	\$37,125	Solar

<b>Recipient Name</b>	<b>County</b>	<b>Grant</b>	<b>Project Description</b>
Hall, Richard	Wabasha	\$10,293	Solar
Harmony Cooperative Grocery, Inc.	Beltrami	\$5,250	Solar
Haugen, Darren	Cottonwood	\$19,994	Energy Efficiency - Grain Dryer
Hughes Automotive Inc.	Blue Earth	\$43,613	Solar
Hutchinson Medical Properties	McLeod	\$82,000	Solar
Island Market, Inc.	Goodhue	\$4,806	Energy Efficiency - Building Improvement
James, Christopher	Washington	\$9,875	Solar
Jesco Services Inc.	Anoka	\$31,050	Solar
Kaehler, Ralph	Winona	\$16,555	Solar
Kampmeier, Reed	Stevens	\$19,250	Energy Efficiency - Grain Dryer
Kas, Brian	Pipestone	\$15,017	Geothermal
Kilen, Shane	Roseau	\$20,000	Energy Efficiency - Grain Dryer
Klassen, Wendell	Cottonwood	\$43,440	Solar
Lundstrom, Mark	Sibley	\$5,750	Solar
Lyon-Lincoln Electric Coop	Lincoln	\$5,840	Solar
M & J Bauer Farms LLC	Dakota	\$19,902	Energy Efficiency - Grain Dryer
Madsen, Michael	Jackson	\$10,147	Geothermal
Maud Borup, Inc	Le Sueur	\$43,108	Wind
McCormick, Kevin J	Houston	\$6,788	Solar
Meyers Cozy Corner Campground Inc.	Stearns	\$32,500	Solar
Moeller, Doyle	Martin	\$13,850	Energy Efficiency - Grain Dryer
Next Chapter Winery LLC	Le Sueur	\$20,412	Solar
Niagara Cave Inc.	Fillmore	\$29,066	Solar
Nuest Partnership	Stevens	\$68,500	Energy Efficiency - Grain Dryer

<b>Recipient Name</b>	<b>County</b>	<b>Grant</b>	<b>Project Description</b>
Olson Mfg LLC	Fillmore	\$34,000	Solar
Osterbauer, William	Swift	\$15,592	Solar
P & J Products Co.	Rice	\$9,140	Energy Efficiency - Building Improvement
Pastures A Plenty Company	Swift	\$29,280	Solar
Peterson, Adryn	Waseca	\$17,850	Energy Efficiency - Grain Dryer
Pick, James	Wabasha	\$15,391	Solar
Prairie Sun Bank	Swift	\$12,993	Solar
Prairieland Pork Inc	Nicollet	\$39,500	Wind
Red River Valley Coop Power Assoc	Norman	\$21,234	Energy Efficiency - Building Improvement
Reinhart, Marsha	Nicollet	\$35,750	Wind
Reynolds, Joyce	Big Stone	\$12,699	Geothermal
Ross, Jay	Polk	\$8,458	Geothermal
Sandbakken, Russell	Lac qui Parle	\$19,750	Wind
Schaffer Window And Siding Inc.	Dakota	\$19,450	Solar
Schneider, Dean	Brown	\$15,705	Energy Efficiency - Grain Dryer
Schreurs, Joel M	Lincoln	\$13,453	Energy Efficiency - Grain Dryer
Stokes Farms Llp	Olmsted	\$19,750	Wind
Sukalski, James	Faribault	\$37,500	Wind
Sundance Exteriors Unlimited Inc.	Dakota	\$8,567	Solar
Tapp, Gene G	Mower	\$20,000	Energy Efficiency - Grain Dryer
Terning Seeds Inc.	Wright	\$115,606	Solar
Tonn, Michael	Olmsted	\$13,750	Solar
Toutges Masonry, LLC	Kandiyohi	\$20,000	Solar
Urns By Htw LLC	Fillmore	\$13,124	Solar

<b>Recipient Name</b>	<b>County</b>	<b>Grant</b>	<b>Project Description</b>
Virnig Manufacturing, Inc.	Benton	\$373,100	Solar
Walch, Jerome	Olmsted	\$13,750	Solar
Welcome State Bank Inc	Martin	\$18,708	Geothermal
Weltsch Equipment, Inc	Redwood	\$61,266	Solar
Wildt, Dennis H	Brown	\$4,565	Geothermal
Winfield, Richard L	Mower	\$12,375	Energy Efficiency - Grain Dryer
Wojahn, Michael	Cottonwood	\$18,366	Solar
Wolf, Keith	Cottonwood	\$13,600	Energy Efficiency - Grain Dryer
York Farm, LLC	McLeod	\$41,250	Wind