

NRECA SMALL UTILITY EM&V PROPOSAL

Presented at the Uniform Methods
Project Steering Committee
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**National Rural Electric
Cooperative Association**

A Touchstone Energy® Cooperative 

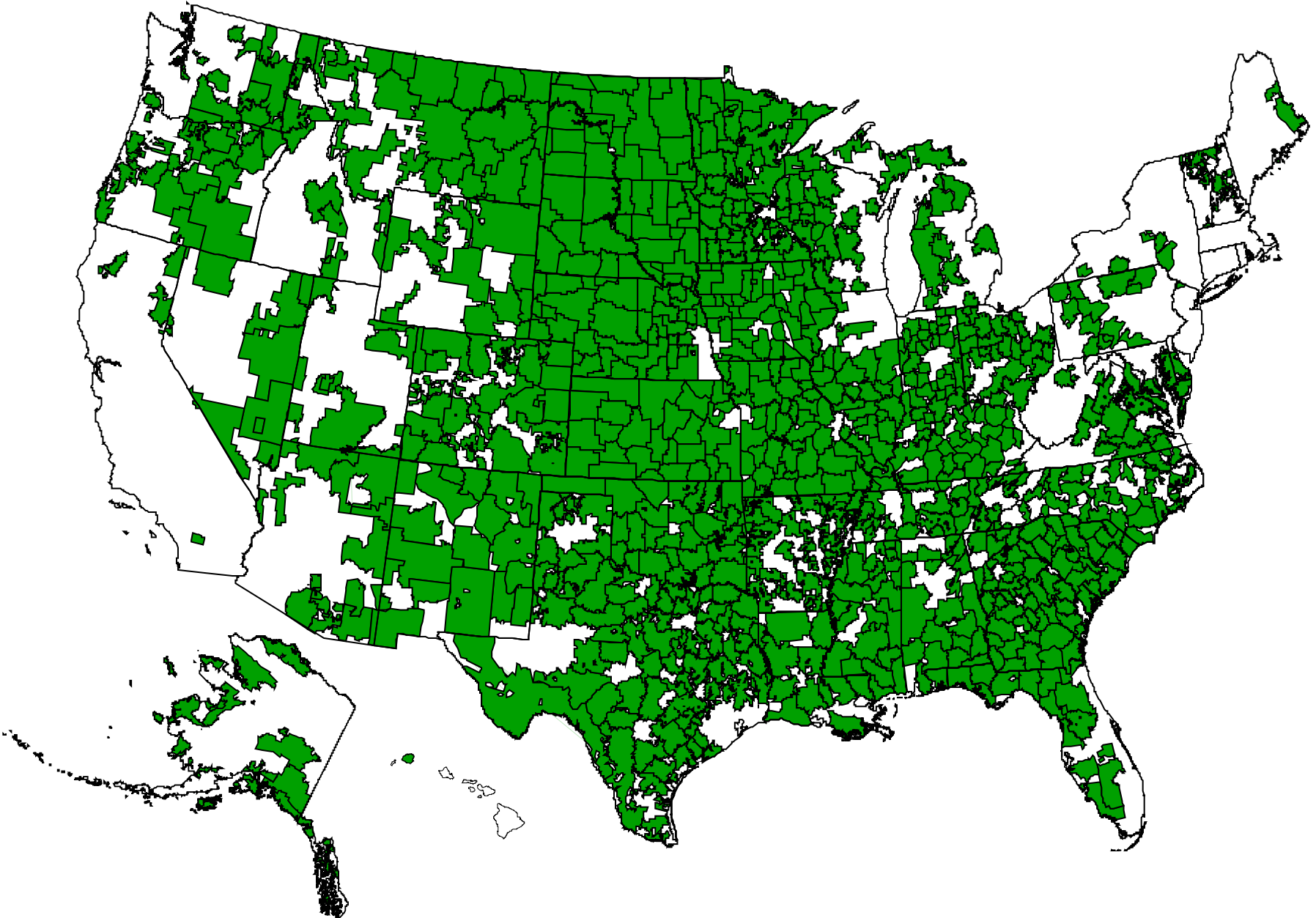
Rural Electric Cooperatives:

- 878 consumer-owned & consumer-governed utilities:
 - 813 Electric Distribution Cooperatives
 - 65 Generation & Transmission Cooperatives
- Serving 42 million consumers in 47 states
 - 12% of the population
- Not-for-profit, private businesses
- Mission: To provide safe, reliable and affordable electric service to their consumer-owners

Some Cooperative Statistics

- Provide power in all or parts of 83% of counties, 75% of nation's land mass
- Built, own & operate 2.3 million miles of distribution lines (42% of nation's total)
- Built, own & operate 55,000 MW of generation
- 7 consumers per mile of line v. 35 for large IOUs
- Median size co-op with average density builds 3000 miles of distribution lines to serve 21,000 consumers
- Median per capita income of co-op consumers = 21% below the national average (or \$21,435)
- Department of Agriculture/RUS role in financing, oversight, technical and operational standards

Counties in Which Electric Distribution Co-ops Serve



Typical Staff of a Distribution Co-op Has Only 48 Employees:

1	General Manager
17	Linemen
9	Secretarial/Clerical
6	Engineering/Operations
5	Meter Readers/Equipment Operators
2	Finance & Accounting
2	Member Services/Marketing
2	Purchasing/Inventory
2	Administration/Office Services
1	Data Processing/IT
1	Communications
48	Total

Statistic	Investor-Owned Utilities	Electric Cooperatives
Number of Customers	490,011	20,913
Number of Employees (Median at retail distribution cooperatives)	n/a	48
Sales (thousands of megawatt-hours)	10,640	441
Revenues (millions of dollars)	\$1,094	\$42

Cost Consequence of UMP to Median Size Cooperative

- Low-End of UMP Impact Evaluation (per DOE study)
\$168,000 each
- For 6 current protocols \$1,000,000
- Would require a 2+% rate increase just for UMP-level EM&V
- Comparable or higher than state caps for investment in efficiency programs **and** EM&V

Suggested Approach for Cooperatives and Other Small Utilities

- Uniformity doesn't mean one size must fit all, rather there needs to be an evenness or balance
- To ensure balance, the EM&V approach for small utilities should be built into the UMP protocols
- If certain requirements are met, small utilities should be able to use deemed savings informed by results of TRMs and other EM&V studies performed by regional or state entities, or large utilities
- Such deemed savings values would be updated every few years to incorporate changes in national/state building standards, or incorporate results of new EM&V studies with oversight by stakeholders

Scope	Resource Name	Format	Information Included	Administrator
Regional - Northwest	Regional Technical Forum (RTF) Deemed Measures	Online Database	<i>Ex ante</i> savings based on algorithms	Advisory Committee
Regional – Midatlantic	Mid-Atlantic TRM	PDF	Algorithms and <i>Ex ante</i> savings	Non-Profit Organization
Arkansas	http://www.apscservices.info/pdf/10/10-100-r_76_1.pdf	PDF	Algorithms	Public Utility
California	Database for Energy Efficient Resources (DEER)	Software Program	<i>Ex ante</i> savings	State Commission
Connecticut	Connecticut Light & Power and United Illuminating Company Program Savings Documentation	PDF	Algorithms and <i>Ex ante</i> savings	Public Utility
Hawaii	Hawaii Energy Efficiency Program TRM	PDF	Algorithms and <i>Ex ante</i> savings	State Commission
Maine	Efficiency Maine TRM – Commercial	PDF	Algorithms and <i>Ex ante</i> savings	Trust
	Efficiency Maine TRM – Residential			
Massachusetts	Massachusetts Statewide TRM for Estimating Savings from Energy Efficiency Measures	PDF	Algorithms and <i>Ex ante</i> savings	Agency
Michigan	Michigan Energy Measures Database	Excel Database	<i>Ex ante</i> savings	State Commission
New Jersey	New Jersey Clean Energy Program Protocols to Measure Resource Savings	PDF	Algorithms and <i>Ex ante</i> savings	Agency
New York	New York Standard Approach for Estimating Energy Savings from Energy Efficiency Programs	PDF	Algorithms and <i>Ex ante</i> savings	Agency
Ohio	Ohio TRM	Online Database	Algorithms and <i>Ex ante</i> savings	State Commission
Pennsylvania	Pennsylvania TRM	DOC	Algorithms and <i>Ex ante</i> savings	State Commission
Texas	Deemed Savings, Installation and Efficiency Standards	PDF	Algorithms and <i>Ex ante</i> savings	State Commission
Vermont	Efficiency Vermont Technical Reference User Manual	PDF	Algorithms and <i>Ex ante</i> savings	Non-Profit Organization
Wisconsin	Focus on Energy Evaluation Business Programs: Deemed Savings Manual V1.0	PDF	Algorithms and <i>Ex ante</i> savings	State Commission