Integrating Renewable Energy Resources

Key Points and Effects on Cooperatives

Presentation to

Interim Water & Natural Resources Committee

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By

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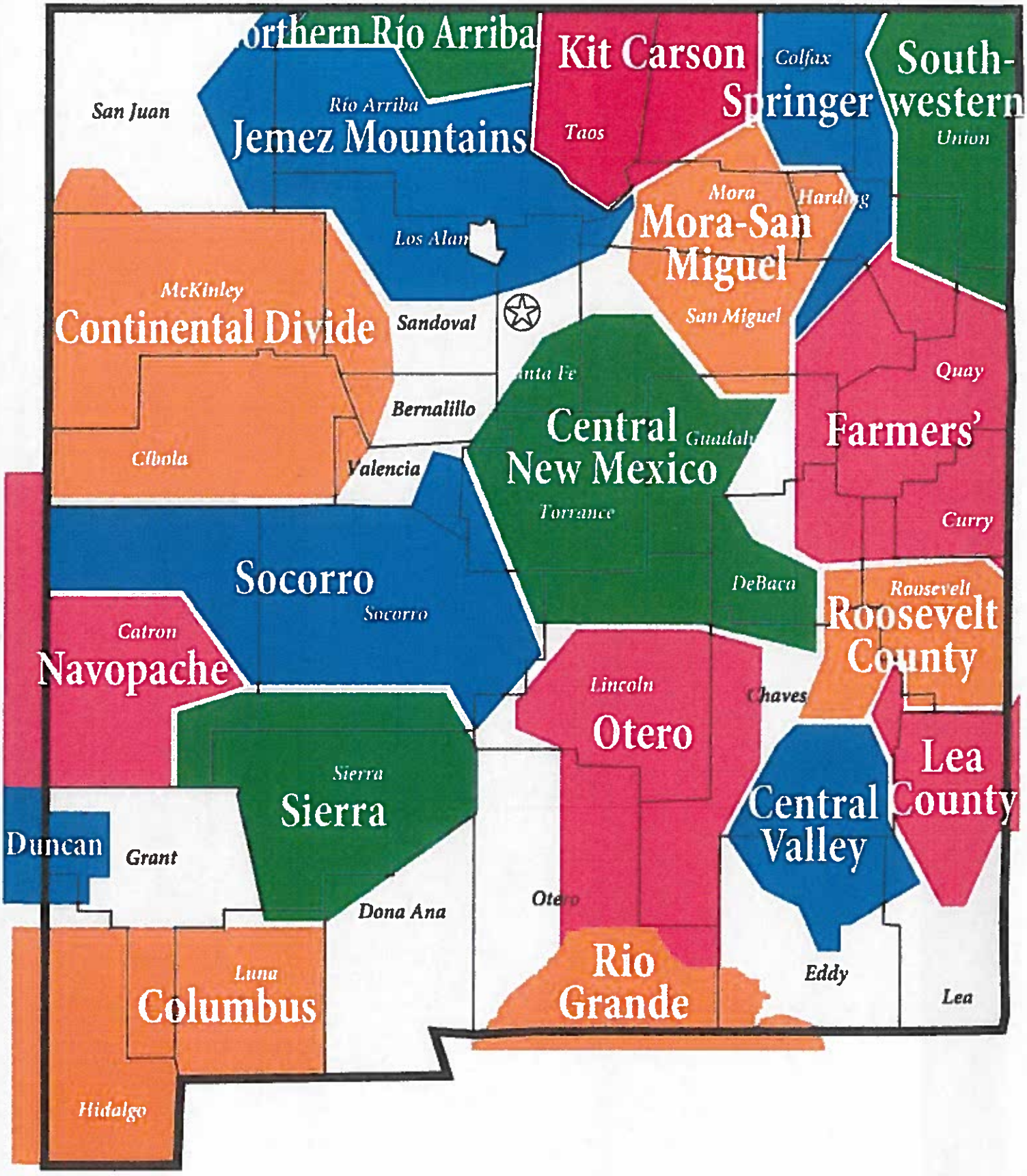
New Mexico Rural Electric Cooperatives



Integration of Renewable Energy Generation into the Electric Cooperative System

Reliability and Affordability

Integrating renewable energy generation into the rural electric cooperative system should maintain or enhance the reliability and affordability of the existing operations and service.

Investments in the Distribution Infrastructure by the Cooperative Membership Must be Recovered

Current and Future costs need to be recovered in a neutral manner, without placing an undue burden on any customer group. Distribution costs and contractual costs between cooperatives and their suppliers, and any other validated/approved distribution costs should be recovered through fixed charges.

Fixed Charges Should Balance the Customer Costs Between Distributed Generation Members and Non-Distributed Generation Members

The fixed cost of providing service to the Co-op Membership shall minimize any subsidy between Members that choose to install a renewable generator and Members that choose not to install a renewable generator.

New Mexico Co-op Renewable Energy Resources

Technology	Type	No. of Customers	Capacity (kW)
Solar	Residential	1,387	6,060
Solar	Commercial	54	1,178
Solar	Co-op	10	7,500
Wind	Residential	15	50
Wind	Commercial	4	1,965
Wind	Co-op	5	61,400
Distribution Co-op	Total	1,475	78,153
	G&T Projects	**Utility Scale**	
Solar		2	55,000
		1,477	133,153

New Mexico Co-op Statistics

Total Assets	$1,223,974,406
Total Utility Plant	$1,196,879,769
Net Utility Plant	$794,316,193
Total Equity	$514,309,394
RUS Long-Term Debt	$410,959,289
Other Long-Term Debt	$187,738,092
Distribution O&M Expense	$44,072,809
Equity as a % of Assets	42%
Residential Consumers	167,294
Commercial Consumers	35,280
Irrigation Consumers	7,467
Industrials Consumers	92
MWh Purchased	5,834,612
Cost Of Power	$350,442,251
Residential Mwh Sales	1,231,429
Commercial MWh Sales	1,812,723
Irrigation MWh Sales	600,244
Industrial MWh Sales	1,769,275
Total MWh Sales	**5,506,649**
Residential Revenues	$160,471,226
Commercial Revenues	$174,960,984
Irrigation Revenues	$53,647,439
Industrial Revenues	$123,306,455
Total Revenues	**$520,711,071**
Monthly Residential kWh Usage	613
Miles of Line	45,464
Consumers Per Mile Of Line	4.64
Full Time Employees	801

Source: 2013 RUS Data

Residential Customer Charge

Customer Charge	$/Month
Lea County	$14.00
Jemez Mountains	$14.00
Kit Carson	$14.50
Socorro	$15.00
Central New Mexico	$15.75
Otero County	$16.00
Southwestern	$17.00
Continental Divide	$17.00
Farmers'	$17.50
Northern Rio Arriba	$20.00
Mora San Miguel	$20.00
Columbus	$20.00
Central Valley	$20.00
Roosevelt County	$22.00
Sierra	$25.00
Springer	$25.60
Avg. Customer Charge	$18.33

New Mexico Rural Electric Cooperative
Member Incomes

Income	Co-op	State	U.S.
Average Household	$54,671	$62,814	$74,877
Household per Capita	$21,589	$24,039	$28,202

	Co-op vs. State	
	$ Diff	% Diff
Average Household	($8,143)	-13.0%
Household per Capita	($2,450)	-10.2%

	Co-op vs. U.S.	
	$ Diff	% Diff
Average Household	($20,206)	-27.0%
Household per Capita	($6,613)	-23.4%

April - 2012