Why We Support SB 924

Energy Efficiency Reporting by Texas' Municipal Utilities and Co-ops Matters

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SB 924 – Efficiency Reporting by Co-ops and Munis

Why reporting on the results of Efficiency and Renewable Energy Programs by Munis and Co-ops is important:

- To assure that the expected reductions in energy use are counted in ERCOT's long term generation plan
- To assure that resulting emissions reductions are counted by Texas A&M's Energy Systems Laboratory
- To give customers, other co-ops and munis ideas for the kind of programs and results they could develop and achieve

Standardization is important to assure reliable high quality data, meeting ERCOT and TCEQ needs.

Programs vary widely

Texas munis and coops have some of the best programs in the state and country :

- San Antonio, Austin
- Bluebonnet (DSM), Pedernales (strong goals)

However, 1/3 have information only and

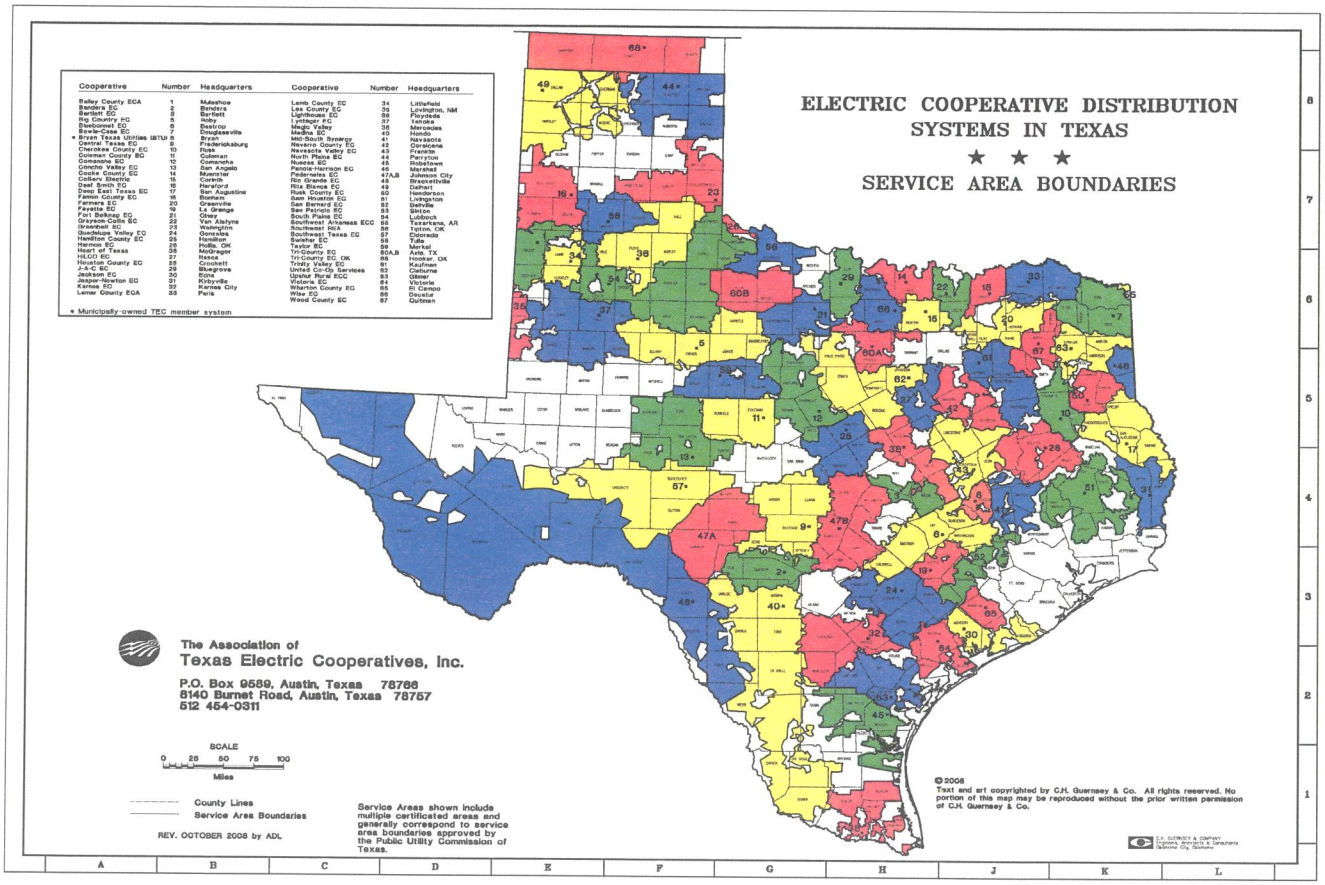
1/3 have no programs

Standardization by SECO is important because reporting quality varies widely and does not allow adequate verification for purposes of crediting gains made

Why do Co-op and Municipal Policies on Efficiency and Renewable Energy Matter?

- Texas has some of the nation's largest municipal utilities – San Antonio #1, Austin # 8
- Suburban sprawl - moving into co-op service areas in DFW, Austin, San Antonio and Houston areas
- Texas has some of the nation's largest Co-ops
  - Pedernales Electric Co-op is nation's largest
  - 234,000 customers, 8,100 square miles
- 65 Distribution Co-ops in Texas, 9 G&T Co-op
- Nearly 3 million co-op member - consumers

Texas Co-op Service Areas



www.texas-ec.org/about_tec/images/reamap1.jpg

Co-op efficiency requirements:

Sec.39.9052.AA ENERGY EFFICIENCY FOR ELECTRIC COOPERATIVES.

(a) An electric cooperative shall consider adopting and implementing energy efficiency programs that reduce the cooperative's annual growth in demand in a manner consistent with standards established in the state for other utilities.

(b) Not later than September 1, 2009, an electric cooperative that had retail sales of more than 500,000 megawatt hours in 2005 must report to the State Energy Conservation Office, in a form and manner determined by the electric cooperative in consultation with the office, information regarding the combined effects of the energy efficiency activities of the electric cooperative.

Municipal Efficiency Provisions: ??

- **Sec.A39.9051.AA ENERGY EFFICIENCY FOR MUNICIPALLY OWNED UTILITIES**

(b) This section applies only to a municipally owned utility that had retail sales of more than 500,000 megawatt hours in 2005.

(c) It is the goal of the legislature that:

(1)municipally owned utilities will administer energy savings incentive programs;

(2)customers of a municipally owned utility will have a choice of and access to energy efficiency alternatives that allow customers to reduce energy consumption, peak demand, or energy costs; and

(3)each municipally owned utility will provide incentives sufficient for municipally owned utilities to acquire additional cost-effective energy efficiency.

Muni and Co-op Policies Vary

- PEC – Pedernales Electric Co-op
  - 30% renewable energy by 2020
  - Reduce growth in energy demand by 20% by 2020
- Austin
  - 35% renewables by 2020, 1000 MW - with 100 MW solar
  - 20% reduction in overall energy use through efficiency
- San Antonio
  - 20% renewable energy by 2020, 1200 MW – with 200 MW solar
  - 771 MW of efficiency
- Bluebonnet
  - Reduce overall energy use by 20% by 2020

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United Services Co-op – Cleburn, Texas

- Online Energy Efficiency Store
  - Uses buying power of co-op to reduce costs
  - One-stop shop for members' efficiency needs
  - United members receive 20% discount on all energy efficiency related products

Utility	Austin Energy	College Station Utilities	Brownsville Public Utilities Board	New Braunfels Utilities	CPS San Antonio	Garland Power & Light	Lubbock Power & Light	Bryan Texas Utilities
Efficiency Goal	800 - 1000 MW		25% reduction		771 MW	Garland Power & Light		
Renewables Goal	35% or 1200 MW				1200 MW	Garland Power & Light		
Education Programs/Ad Campaigns		Y	Y	2613 participants			14,000 MWH	Y
Appliance Efficiency Program	3,782 MWh				Y			4 loans
Insulation								1 loan
Home Performance Energy Star - Loan	421 MWh							
Home Performance with Energy Star - Rebate	4,390 MWh							
Weatherization	552 MWh					1,500,589 kWh		
Multi Family	23,847 MWh							
Clothes Washer Rebates	234 MWh				Y			
AC/Heat Pump Rebates		1,600 participants		319,836.5 kWh	Y			
Duct Leaks Seal/Diagnosis								
Refrigerator Recycling	3,235 MWh							
Power Partner Program	97 MWh							
Cycle Saver Program	7 MWh							
CFL Program/Lighting Retrofit	6,244 MWh	3,000 participants	11,839 participants	152,565.19 kWh	20,409,031 kWh	2,058,600 kWh		85 participants
Commercial Rebate & ILA	42,783 MWh							1 particpant
Commercial AEP								
Commercial & Small Business Lighting	2,414 MWh				41,687,581 kWh			
Municipal	383 MWh							
Power Partner	14 MWh							
Load Coop	19 MWh							
Commercial Smart Vendor	492 MWh							
Engineering Support & TES								
Traffic Signal LED's								
Automated Street Light Monitoring System		300,000 kWh						
Small Business Air Conditioner	1,283 MWH							
Residential	1,529 MWh							
Residential Energy Code	7,914 MWh							
Multi Family Energy Code	4,627 MWh							
Multi Family Tonnage Reduction								
Commerical	13,337 MWh							
Commercial Energy Code	14,590 MWh							
Energy Audits		2,100 participants		195 participants		Y	5,000 participants	
Water Audits				40 participants				
Printing/Paper Reduction Program				14,025 kWh				
Home Efficiency Improvements				16 participants	1,797,568 kWh			
Commercial HVAC					6,977,605 kWh	136,000 kWh (residential & commercial combined)		16 loans (residential & commercial combined)
Residential HVAC					3,173,195 kWh	136,000 kWh (residential & commercial combined)		16 loans (residential & commercial combined)
Solar PV & Water Heater					145,223 kWh			13 participants
Solar Thermal Rebates								6 participants
Commercial Motors					26,124 kWh			
Commercial Window Film					0 kWh			3 loans (residential & commercial combined)
Commercial Roof Coating					262,354 kWh			6 participants
Residential Peak Saver					153,154 kWh			
Low Income Weatherization Program					Y	40,000 kWh		
Wind Power	439 MW	purchased 10 mw			709MW			

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Coop	Bluebonnet	Wood County	Upshur Rural	United	Trinity Valley	Tri County	South Plains	Sam Houston	PEC
Efficiency Goals	20% reduction								20% reduction in growth
Renewable Goals									30%
Net Metering	Y								
Interconnection	Y			40,185 kWh saved				3MW landfill gas generator	up to 20 kW
Distributed Generation	Y						101,032 kWh saved		Y
Rebate Programs	Y			91 participants					$594,000 in rebates
Web Site Tools	Y				Y		Y		Y
Education Programs/Ad Campaigns	Y	500 radio spots			Y			900 radio spots	Y
Energy Audits		30 participants		560 participants	175 participants	515 participants		200 participants	457 participants
Smart Thermostats		100 to donate							
CFL		1,400 participants	1,834 participants	3,000 participants			2,268 participants	2,000 participants	1,000 participants
Energy Efficiency/Conservation Programs				955,744 kWh saved			121,867 kWh saved		
Peak Voltage Reduction Programs				87,500 kWh saved					
Load Curtailment Programs				15,001 kWh saved			$198,000 saved		
Peak Demand Response Programs				102,501 kWh saved			23,300 kWh saved		Y
Energy Efficiency Store Sales				4,024 kWh saved			Y		
Water Heater Rebates						81 participants			
Wind Power									purchased 90MW
Commercial Lighting Rebate									624, 623 kWh saved
Weatherization									1,000 participants
New Home Construction									
Commercial Energy Audits									
Smart Meters									
Smart Home Technology									
Water Heater Sales									
Copper Change Out Program									

Conclusions

Standardized reporting to SECO is needed-

Many gaps in programs and reports

- Need system of evaluation, measurement and verification to improve transparency and quantification of program result data
- Efficiency gains should be counted and considered by ERCOT
- ERCOT should use this data for generation planning – in the long-term demand forecast