Florida Public Service Commission

Critical System Readiness - 2011

Bill May, Director of Cooperative Initiatives

Talquin Electric Cooperative, Inc.
Talquin Water & Wastewater, Inc.

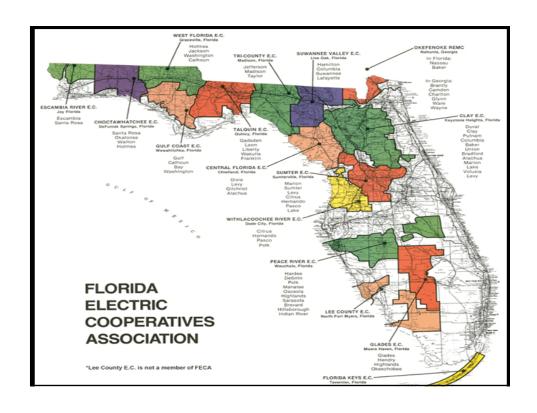
Tallahassee, FL May, 2011



Talquin Electric Cooperative, Inc.

Talquin Water & Wastewater, Inc.

- Serving Florida's Capital Region "Tallahassee"
- 2,600 Square Mile Territory
- 52,523 Active Electric Services
- 20,484 Water Accounts
- Staff of 185
- \$140 M Annual Operating Revenues
- Gulf Exposure with ROUTINE EXTREME WEATHER



SYSTEM SUMMARY		
Miles of Energized Line - Total	4,433	
Miles of Energized Overhead Line	3,799	
Miles of Energized Underground Line	557	
Miles of Energized Transmission Line	77	
Number of Substations	25	
Number of Active Electric Meters	52,523	
Number of Services per Mile of Line	11.8	



Construction Standards

- Rural Utilities Services Standards
- National Electric Safety Code Compliance
- Greater Use of NESC Grade B Construction
- Consulting Engineering Firm & FPSC Staff Inspection
- Vegetation Management



Storm Hardening of Cooperative Facilities

- •Increased Construction Standards
- •Rebuild Lines
- •Added Substation to Shorten Feeders
- •Secure Pad-Mounted Transformers Coastal Area URD
- •Improving Access to New & Replacement Facilities
- Communications Study & Tower Analysis
- Concrete Poles at Critical Locations





Inspections Transmission Distribution Substations Pole Attachments Right-of-Way



PRE-STORM PREPARDNESS MEASURES

- Review & Revise Emergency Restoration Plan & Resource Documents
- Secure Pricing & Availability of Outside Contractors
- Training of Back-up Personnel Performing Alternate Duties in Storm Mode
- · Inventory & Replenish Storm Stock Inventory
- Service & Fuel Back-Up Generators
- Test Connectivity of Redundant OMS & IVR Systems
- Review & Revise List of Priority Restoration Accounts
- Produce & Distribute Master Contact List
- Test Communications Equipment Radios, Satellite Phones & Internet
- Verify Emergency Arrangements With Fuel Vendors
- Secure Mechanic & Wrecker Services
- Identify & Designate Staging Areas for Additional Crews
- Prepare Info Packet for Arriving Out-of-Town Crews



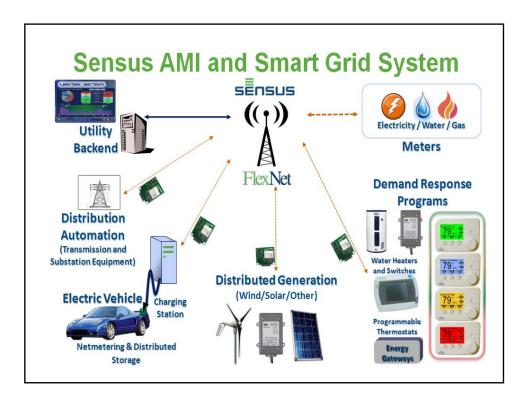
Operations Control Center

- Established Centralized Operations & Control Center
- Renovated "Hardened Facility"
- Structure Rated to Withstand Minimum 140 mph Winds
- Impact Resistant Glass Reinforced Roofing
- Emergency Power With Expanded Fuel Capacity
- Satellite Communications
- Bunker for Protection of Staff On Station During Storm Event
- Commercial Grade Core Appliances to Support Field Crews



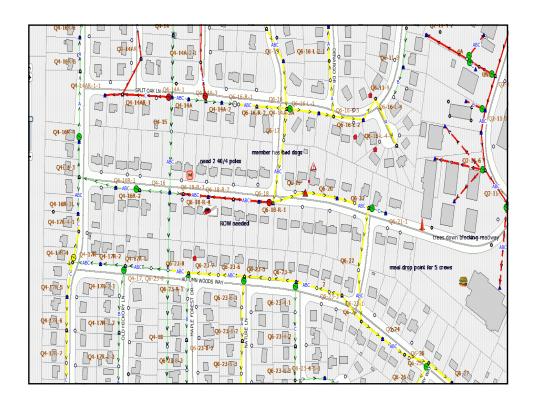
Talquin Technology Deployments

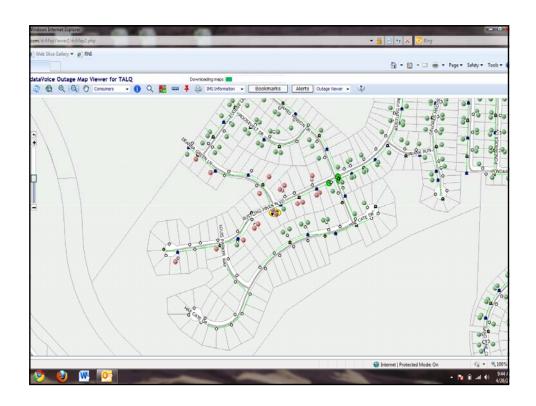
- GIS Mapping System (2008)
- Outage Management System With Prediction Technology (2009)
- 10 Campus/18 Building Cisco VOIP System (2009)
- Fixed Wireless "Smart Grid" Canopy (2010)
- Electric AMI System with Outage Reporting (In Progress)
- 200 MB Microwave Backhaul Redundant Network (In Design)



Outage Data

- Established Replicated Backup OMS Servers (2008)
- Web-Based Reporting (2009)
- Outage Status Maps (2009)
- PATLive Call Center with Partner Network (2011)
- Dual IVR System with Off-Site Replication (2011)
- Established Meter-Based Reporting to OMS (2011)







Areas of Vulnerability

- Storm Surge Damage to Underground System
- Profile of Service Area Vast Areas of Heavy Forest
- Limitations to Trimming





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