Special Electric Reliability Forum

October 12, 2011

Robert R. Stoyko, Vice President – Northern Region UGI Utilities, Inc. Electric Division



About UGI Electric Division

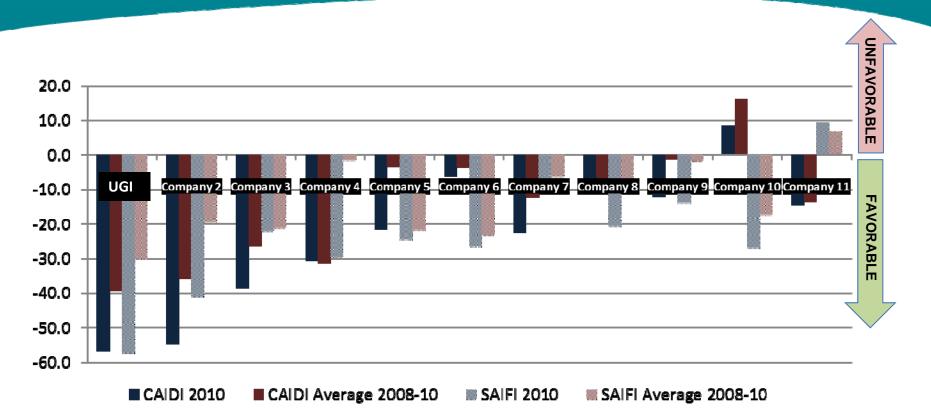
UGI Electric serves predominantly rural Luzerne and Wyoming Counties.

132

Customers: 62,095 **Miles of Distribution Line:** 1,991 **Miles of Transmission Line:**



History of Reliability – PUC Electric Reliability Report



- The 2010 CAIDI score for UGI (99) is favorable to the Standard (228) and Benchmark (169).
- The 2010 SAIFI score for UGI (0.48) is favorable to the Standard (1.12) and Benchmark (0.83).
- The 2008-10 average CAIDI score for UGI (113) is favorable to the 3 year Standard (186).
- The 2008-10 average SAIFI score for UGI (0.64) is favorable to the 3 year Standard (0.91).



Catastrophic Nature of Hurricane Irene

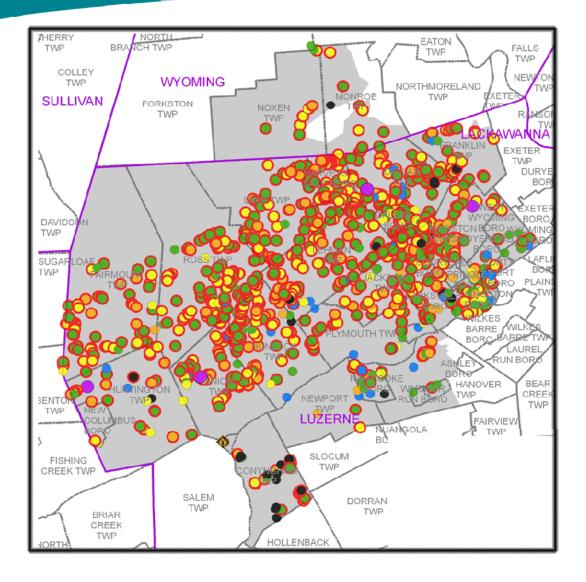
	Hurricane Irene (8/11)	Storms (6/08)	Hurricane Floyd (1999)
Customers:			
Number Affected	35,975	21,723	11,000
% Affected	58%	35%	18%
Repair Incidents	617	135	**
Outage Cases	318	37	**
Outage duration	10 days	6 days	6 days
Line Clearance Assignments	1,152	265	201*
Spans of Line Repaired / Replaced	1,043	221	**
Poles Replaced	39	5	6
Workers Assigned Total	106	98	70
Workers – UGI	40	29	33

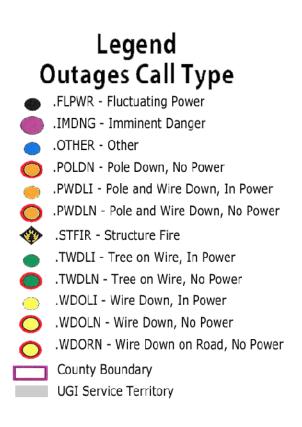
*Estimate.

**Information not available.



Storm Impact on UGI Electric System







Examples of Damage to UGI Service Territory











Examples of Damage to UGI Service Territory











Examples of Damage to UGI Service Territory









Storm Response Planning Timeline

Date Initiated

UTILITIES, ING.

Weather Forecast Assessment	August 23
Resource Additions Explored	
–UGI Line Contractor	August 23
–MAMA Participation	August 23
Preliminary Assessment / Planning	August 25
Local Emergency Management Outreach	August 26
Major Planning Meeting /	August 26
Emergency Plan Implementation	
Inventory Review and Staging	August 26

Inventory Review and Staging

System Impact and Prioritization

UGI Service Territory

Hurricane Irene August 28th, 2011

Affected Customers 35,975

Transmission Outages 5-66kV (38%)

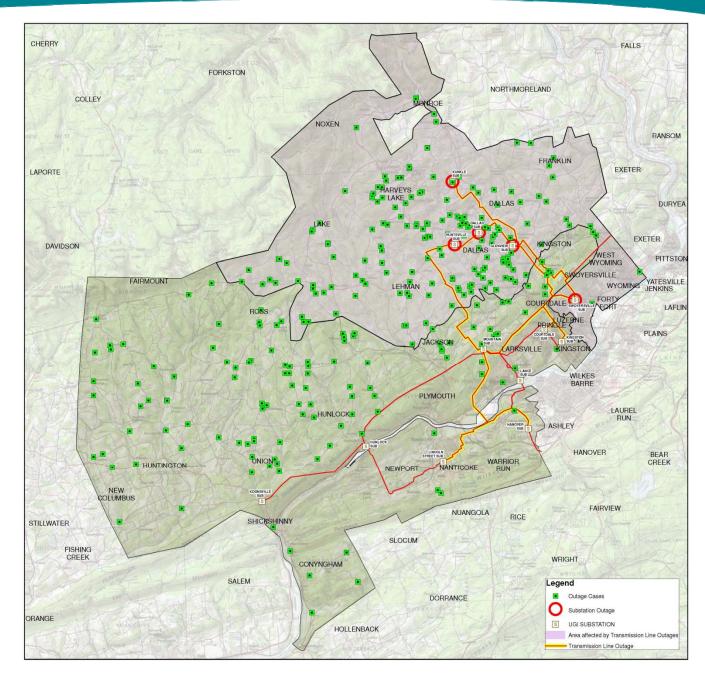
Substation Outages 5-66kV (42%)

Outage Cases 318

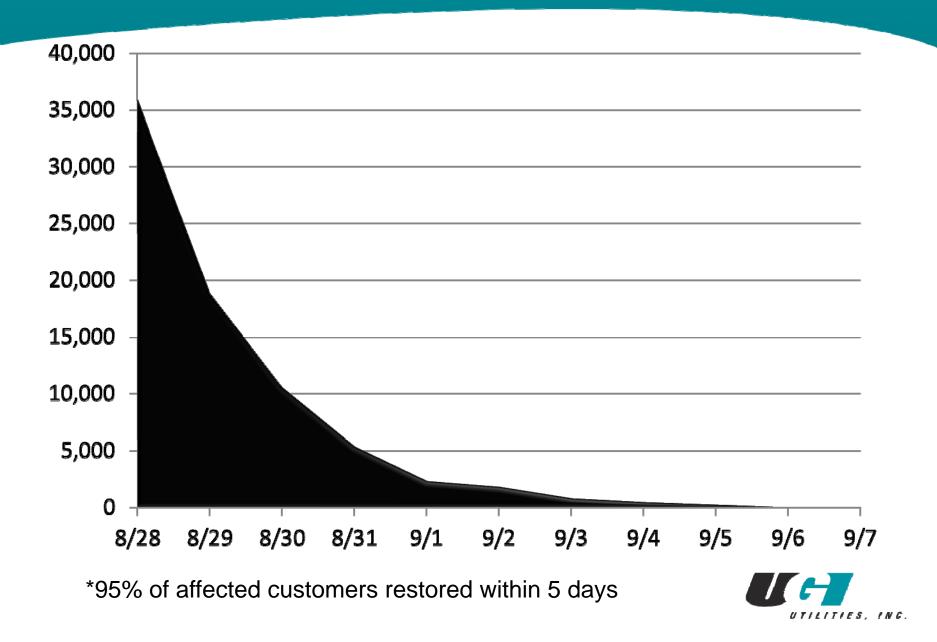
Repair Incidents 617

Spans of Wire Repaired 1,043

Line Clearance Assignments 1,152

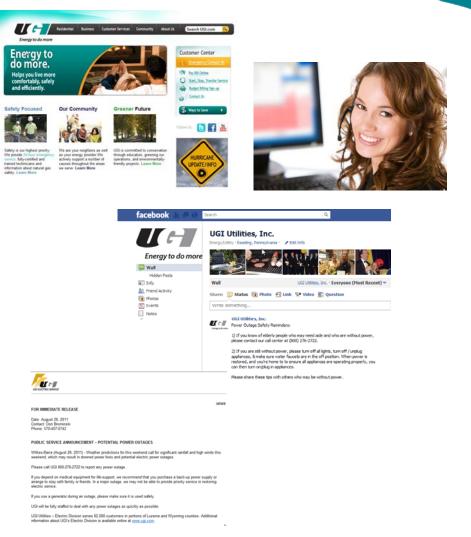


Service Restoration Timeline



Customer Communications and Outreach

- Multiple daily Public Service Announcements
- Daily UGI website updates
- Daily Facebook updates
- Public meeting with over 100 customers
- Outbound customer calls
- Donations to various nonprofit agencies
- Coordinated effort with Red Cross, Salvation Army and others





Lessons Learned: What Went Well

- Tireless efforts from efficient and productive field crews made up of experienced and skilled work force
- Effective scheduling and staging of pole setting contractor, tree crews and repair crews
- Successful field trial with laptops containing outage and mapping data
- Face-to-face customer meeting to personally address customer concerns



Lessons Learned

Tools

Install Already-Budgeted Outage Management System

Planning

- Contractor Resources
- Response and Outreach
 - Communications
 - Outreach Timing

