

February 5, 2019 - Energy & Technology Committee

Patrick McDonnell, VP for Regulatory Affairs

The Energy Future in Connecticut





Northeast, including three in Connecticut. eight electricity, natural gas or combination utilities in the Headquartered in Orange CT, Avangrid Networks owns

customers and 990,000 natural gas customers These companies serve 2.2 million electricity

the community and environment. delivery, excellent customer service and a commitment to Our companies are recognized for safe, reliable energy



Avanaria. "utility of the future"

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companies (UI, SCG, CNG) employ more each year to its municipalities. more than \$77 million in property taxes than 1,400 Connecticut residents paying AVANGRID's three Connecticut-based





The United Illuminating Company (UI) - established 1899

the greater New Haven and Bridgeport areas Operates approximately 3,500 miles of electric distribution lines and 139 miles of transmission lines and serves 335,000 customers in







Southern Connecticut Gas Company (SCG) - established 1847

approximately 197,000 customers in the greater New Haven and Bridgeport areas of Connecticut. natural gas distribution pipelines, serving Operates approximately 2,500 miles of

Connecticut Natural Gas Corporation (CNG) - established 1848

Britain area, and Greenwich. communities in the greater Hartford-New 177,000 customers across 26 distribution pipeline, serving approximately Operates 2,160 miles of natural gas



Our Mission

- Safe delivery of electricity and natural gas to our customers
- accounting practices and other matters by the Public Utility Subject to the regulation of rates charged to customers Regulatory Authority (PURA).
- are not regulated in CT (as per PA 98-28). Energy supply providers for both electric and natural gas supply
- https://www.energizect.com/compare-energy-suppliers
- supply with significant unregulated clean energy development We are the region's partners in clean energy development portfolios. and

Electric Bills

January 2019 (23.8 cents/per KWh) "All-in" Component Price as of

- Energy Supply Cost represents
 50% of the bill*
- Use of the Grid represents 40% of the bill
- State Energy Policy/Legislative of the bill Mandates Cost represents 10%

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cleaner burning natural gas generators scale renewables such as offshore wind and grid-scale solar and new, * Connecticut's EDCs and their customers bear the costs associated with long term energy contracts that result in the development of new large

Modern Rate Designs

Rate Decoupling

- PURA approves the revenues required to run the electric and distribution system
- Rates are designed to collect that revenue
- over/under collections of revenue The decoupling adjustment is used to adjust

Time of Use Rates

- 25% of UI's residential customers utilize a "Time of Use" rate
- On-Peak noon-8:00 P.M. Monday-Friday
- All other hours are off-Peak
- Technology agnostic-based on usage





Gas Operational Safety, Compliance & Expertise



The "Traditional"



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Hosting Capacity Map

Installed Parallel DG



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Distribution Grid Modernization

intelligent" electric power system, while providing safe, reliable, and cost-effective service. VISION: Manage, maintain, and operate a "more





Ul's Digital Customer Experience

How customers benefit from AMI



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D	Distribution System Storm Resiliency – Ongoing (Commitment
•	Vegetation Management	
	 Utility Protection Zone 	
	 Balancing customer demand for reliable 	
	service with environment benefits of	
	trees.	
•	Infrastructure resiliency	
	 Replace aging infrastructure - poles & 	
	 Increase system back-up capability 	
	(Perimeter Feeder ties)	
	 Flood mitigation (coastal substations) 	
•	Evaluate and Leverage new technology	
	 Focal Point upgrade, use of Drones, 	
	Distribution Lidar, Grid Analytics, etc.	
•	Post-Storm "System Inspections"	







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Electric Vehicle Roadmap Goals

- Active participant in DEEP's EV Roadmap development.
- electric vehicle deployment can thrive. Work with municipalities to create an environment where



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Questions?

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