



LED lighting Panel

Gil Salazar (Oncor Electric)
Tyler Harris (General Services Administration)
Mindy Carmichael (City of Arlington)
Jennifer Sanders (Dallas Innovation Alliance)

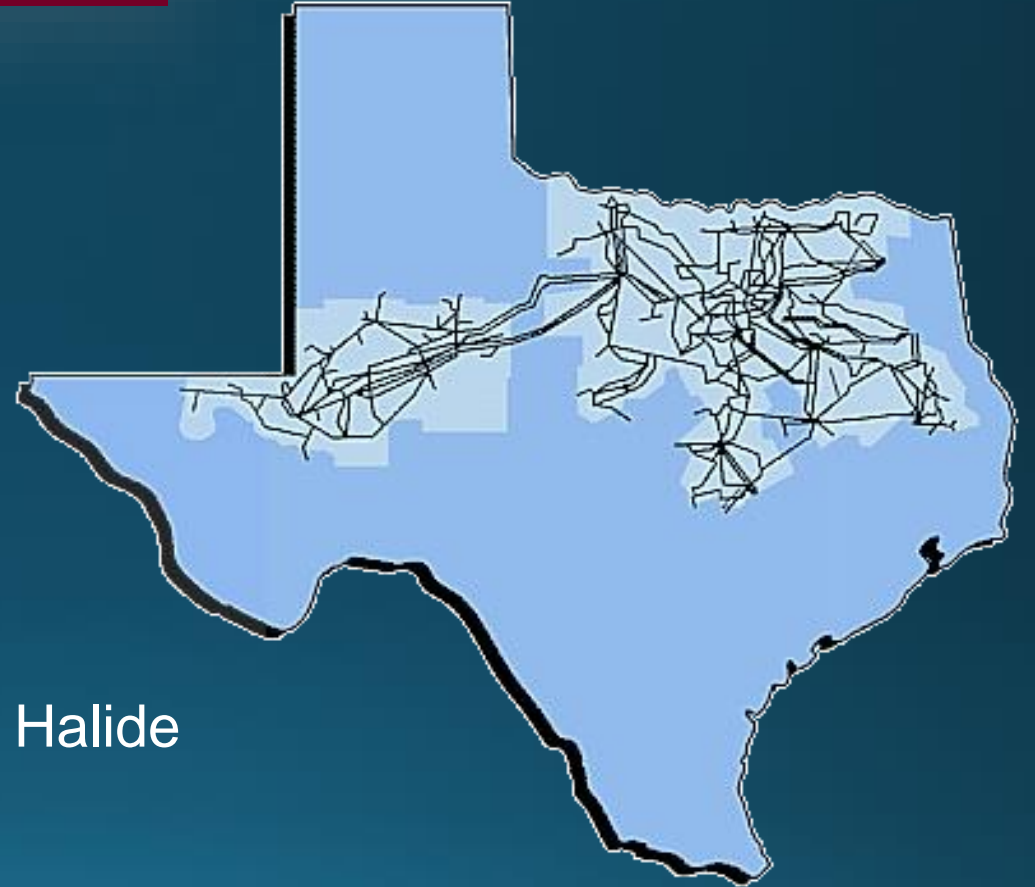
Moderated by: Adam Quinn (E3, LED Solutions)

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Oncor Electric Delivery

Streetlight Infrastructure

- More than 400,000 Streetlights
- 91 Counties
- More than 400 Cities
- Annual Repairs \approx 65,000
- Wattages ranging from 46w to 1000w
- Mercury Vapor, High Pressure Sodium, Metal Halide & LED



Oncor has been keeping the lights on in Texas for more than 100 years

LED Pilot Program

- Oncor funded: \$1 Million
- Five manufacturers across six locations
- ≈550 total fixtures with monitoring system
- Tested for light output, degradation, aesthetics & reliability
- Collected electrical data, consumption, real-time outage notification & diagnostics

Purpose:

1. Evaluate LED performance in a Texas utility grade application
2. Evaluate effectiveness of streetlight monitoring system



Key Findings



LED Streetlights

- Variability between manufacturers
- Significant reduction in cost
- Favorable response from customers
- Driver is key to performance
- Color temperature trending lower
- Improved fixture efficiency



Monitoring System

- Reporting accuracy & diagnostics
- Improved restoration time
- Data analytics
- Better inventory oversight
- Smart Cities: traffic control, pollution sensors, noise detectors, video, gun shot detection, etc.



Grand Prairie
Main Street & Jefferson