



# Electric Transmission Facilities:

The Good, The Bad, & The Snuggly

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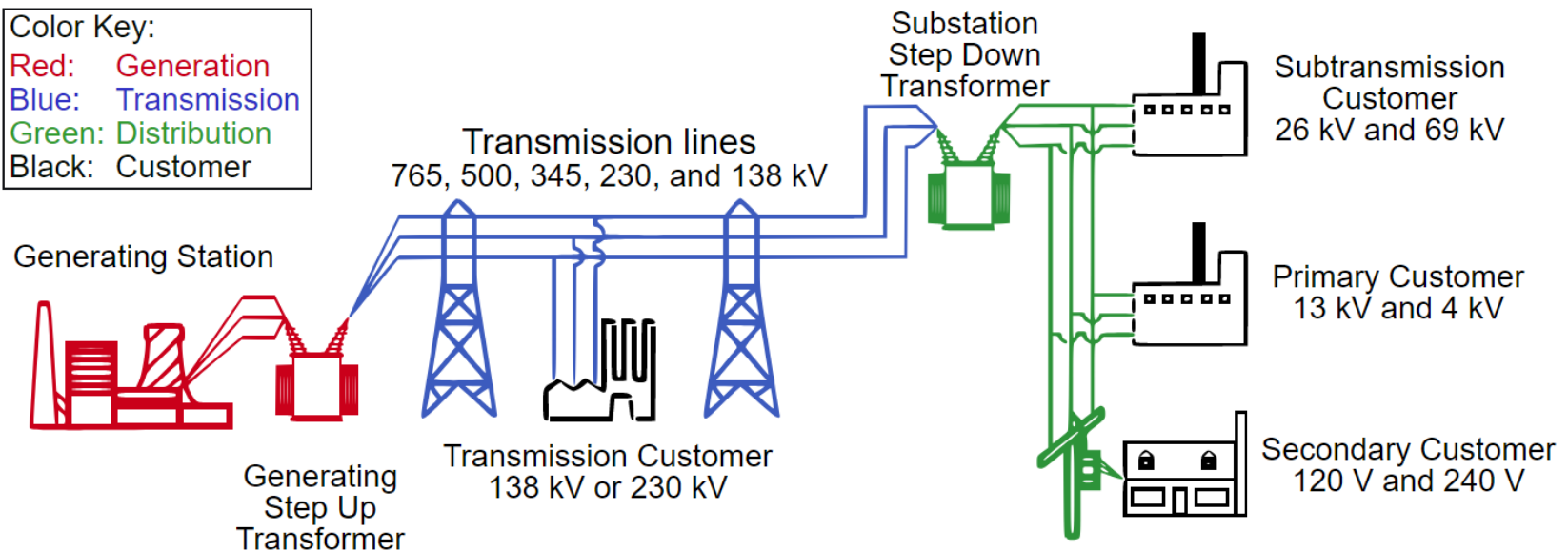


# Disclaimers

- Materials and opinions presented are those of the presenters only, and not necessarily those of Duquesne Light Company.
- Scenarios presented here are strictly hypothetical. Any resemblance to actual scenarios is coincidental.

# Electric Slide

Color Key:  
Red: Generation  
Blue: Transmission  
Green: Distribution  
Black: Customer



# Transmission Line

Lattice Structure



Monopole



# Considerations

- PUC Regulatory
- Environmental
- Real Property
- Other



# PUC Regulatory

- Review & approve all overhead lines over 100 kV
- Considerations
  - Project Need
  - Design
  - Route
  - Timeline
  - Cost
  - Effects on resources (environmental, cultural, utility, etc.)
  - Public input
  - Municipal coordination
  - Effects on uses (residential, commercial, etc.)
- Quasi-judicial proceeding
  - Administrative Law Judge; appealable to full Commission
  - Written testimony; discovery; hearings; briefs; etc.
- Non-siloed issue review
- Article I, Section 27

# Environmental Considerations

## Construction

- Environmental permitting
  - NPDES
    - E&S controls
    - Long-term O&M
  - Wetlands
  - River Crossings
  - PNDI
  - Army Corps
  - Local permits (e.g., grading)
- Other approvals
  - Turnpike/PennDOT
  - FAA
  - Coast Guard
  - Railroad crossing
- Other considerations
  - Geotechnical
  - Cultural/historical/archaeological

# Vegetation Management

- Line Clearance
  - Span length, pole height, line blowout, tree growth rates, etc.
  - OSHA, NERC, NESC
  - Typical corridor for 138 kV = around 100 feet
  - Standards: ANSI, PUC Inspection & Maintenance Plans
- Initial Clearing
- Ongoing Management
  - Pruning + selective removals
  - Herbicide Use
    - *Mattu v. West Penn Power Company*, 2018 WL 5620931 (PA P.U.C. October 25, 2018)
      - Easement grants West Penn rights to control vegetation “by such methods as West Penn may determine.”
    - PUC Vegetation Management Collaborative
  - Goal: Stable communities of compatible plants (and animals)



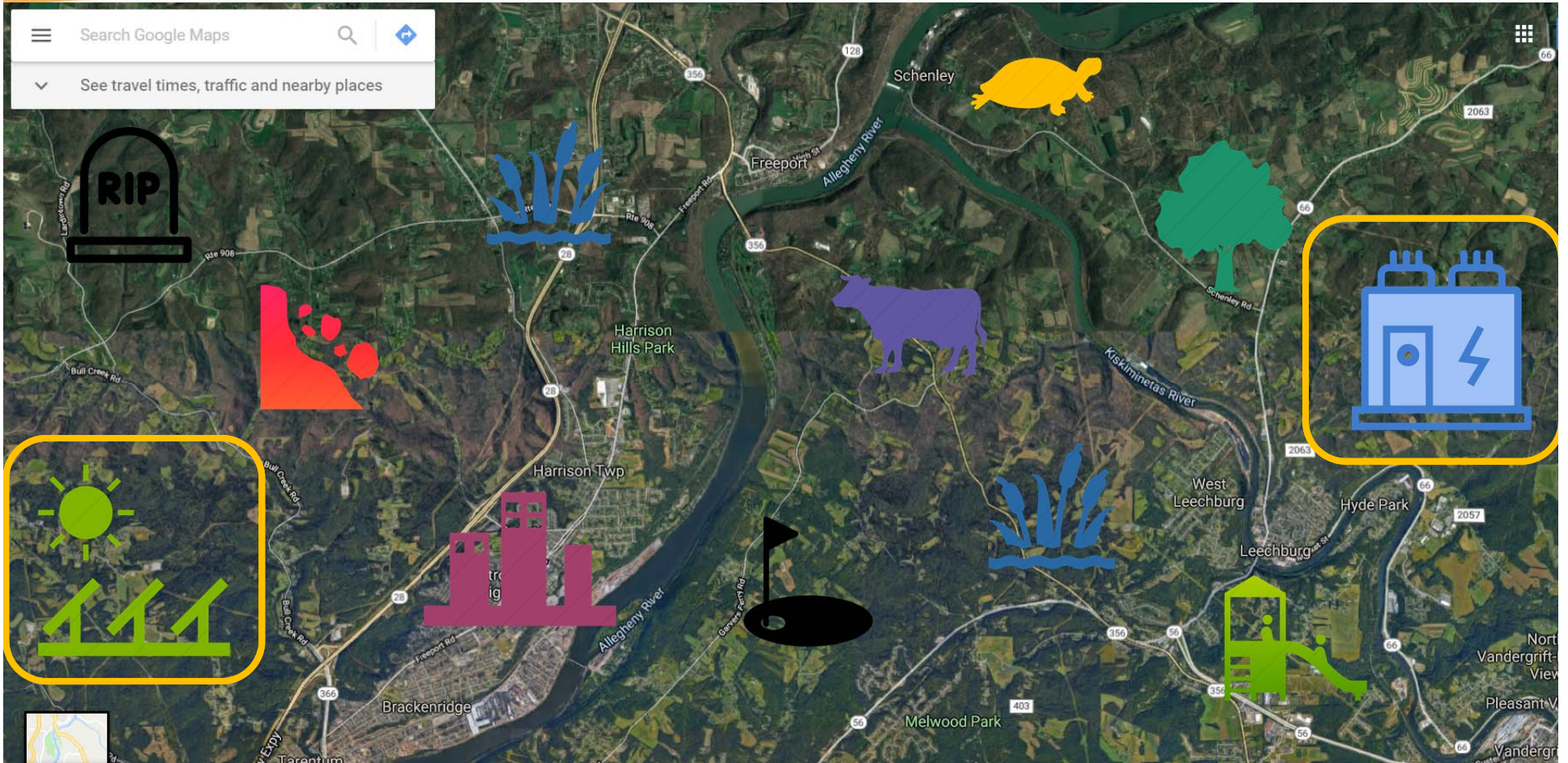
# Real Estate

- Property Rights and Engineering Concerns
  - Do we have the rights we need to place our structures and/or lines on a piece of land?
  - If we have existing rights on that piece of land, do we need additional rights?
  - Do we need more than an easement?
    - Access Rights?
    - Vegetation Management Rights?
- Eminent Domain
  - PUC + Civil Court
  - Residential curtilage

# The Snuggly

- Transmission corridors can benefit compatible uses
  - Agricultural areas
  - Utility co-location
- Protection of Ospreys – Nesting Boxes
  - First Energy Program ([link](#))
- Grid Reliability & Resiliency
  - Accommodate retirements of coal-fired generation; construction of renewable generation

# Hypo: Site a Transmission Line





THANK YOU!

QUESTIONS?



**DLC**

— *DUQUESNE LIGHT CO.* —