



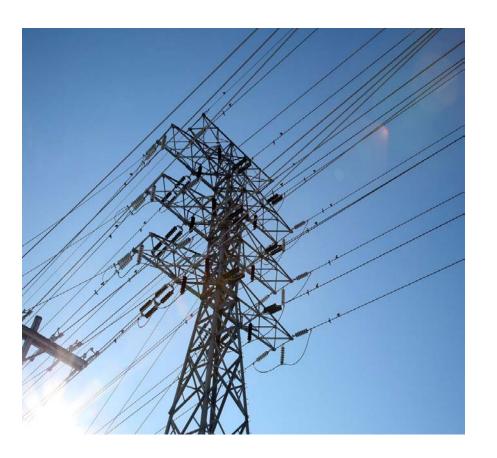
ELECTRIC TRANSMISSION 201: Siting Transmission: Route Selection Process

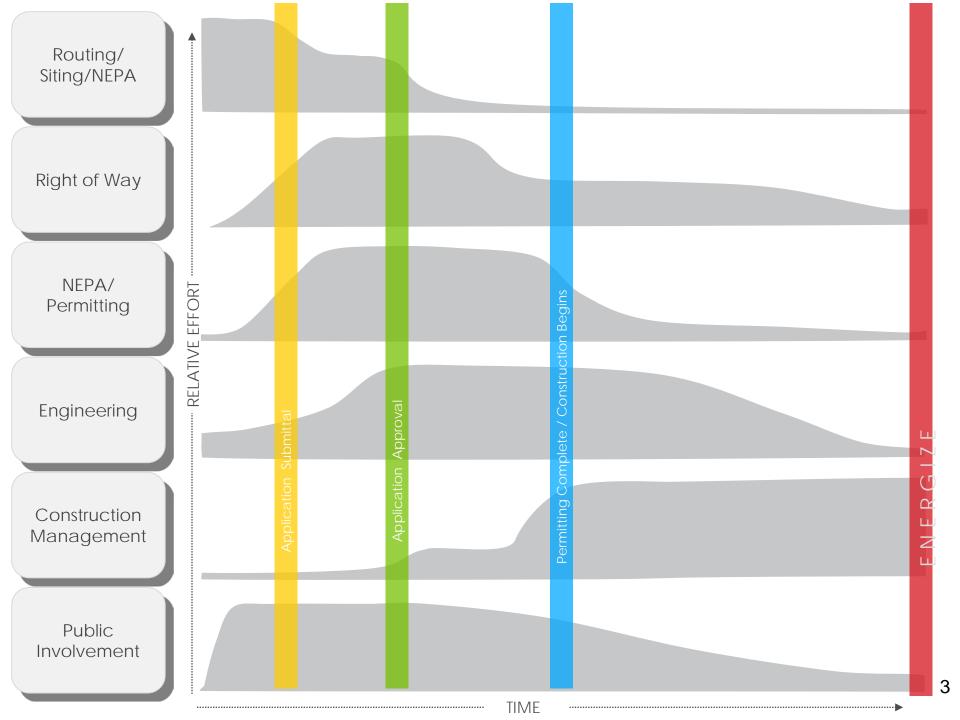
Jack Halpern
Power Sector Leader- Environmental Services
Stantec Consulting Services, Inc



Goal of Route Selection

- Understand the opportunities and constraints in a study area
- Develop feasible alternative routes
- Evaluate all potential impacts
- Identify a proposed route

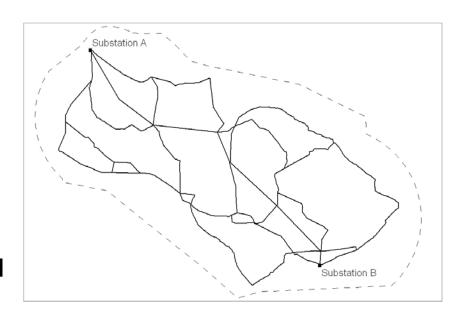


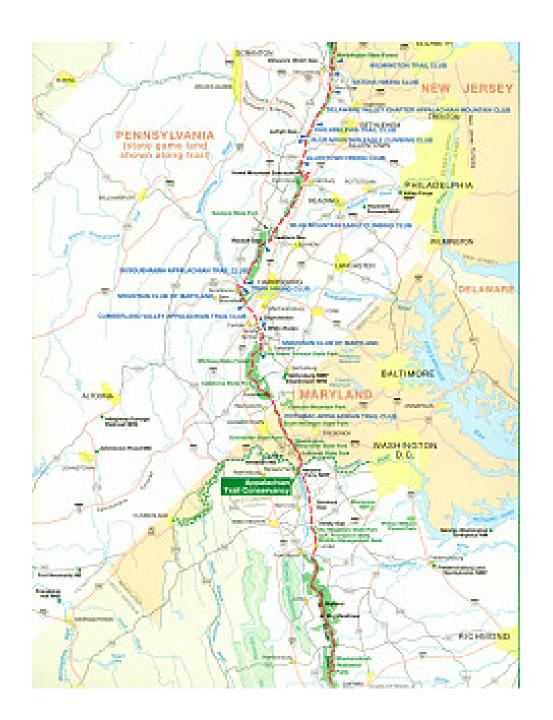


The Routing Process

Study Area

- Initial broad level routing guidelines
- Potential Route Development
 - More detailed guidelines utilized
- Alternative Routes
 - Specific alignments developed
- Proposed Route
 - Documentation to support route





Guidelines Checklist

- Maximize paralleling or existing rights-of-way
- Minimize impacts to natural and human environment
- Minimize route length and cost
- Minimize impact existing residences
- Avoid new crossings of large lakes, rivers or large wetland complex areas
- Minimize crossing 345 kV and 500 kV lines
- Maximize separation distances from residences, schools, cemeteries, historical resources, recreation sites, and other important cultural sites
- Minimize crossing designated natural resource lands such as state forests, national and state parks, and wildlife management areas

Preference Approach for Siting

- Upgrade or double circuit an existing line
- Parallel an existing line
- Parallel roads, railroads and pipelines
- Green field solutions







Eminent Domain

- Lengthy and contentious process when used
- More likely to be exercised when schedule is compressed and few options are available for routing project
- Requirements for eminent domain proceedings vary by jurisdiction
- Proponents generally wish to avoid, but power of eminent domain strengthens proponent's negotiating position
- Option of last resort