

nationalgrid

HERE WITH YOU. HERE FOR YOU.

Changes in Project Approach



David Beron
Principal Project Manager



nationalgrid

HERE WITH YOU. HERE FOR YOU.

Project Alternatives and Options Analysis



Alternatives Analysis - Then

- In the past, project options and alternatives analyses were somewhat cursory and were largely focused on economics
 - Utilities still integrated
 - Less environmental regulation
 - Backbone network still being built out
 - Performance and reliability standards still developing

Alternatives Analysis - Now

nationalgrid

HERE WITH YOU. HERE FOR YOU.

- Today, options analyses are much more rigorous and consider many factors beyond economics
 - Network Performance and Flexibility
 - Natural Environment
 - Human Environment
 - Worker Safety
 - Delivery Timeframe

Alternatives Analysis - Now

- Today, more varieties of alternatives are considered
 - Electrical Alternatives
 - Routing Alternatives
 - Structure and Corridor Configurations
 - OH vs. UG Alternatives
 - Non-Transmission Alternatives (EE, DR, DG, G and Combinations)
 - Hybrid Alternatives

nationalgrid

HERE WITH YOU. HERE FOR YOU.

Stakeholder Engagement



Stakeholder Engagement - Then

- In the past, stakeholder engagement on projects was minimal
 - An afterthought
 - Not considered a necessity
 - Reactive
 - Typically done during construction phase
 - Focused on direct abutters

Stakeholder Engagement - Now

- Today, stakeholder engagement is considered critical
 - Proactive
 - Early and often
 - Becoming campaign-oriented
 - Requires dedicated resources
 - Reaches across many classes of stakeholders
 - During all project phases from concept through construction

Stakeholder Engagement - Now

- Tools and Tactics for Stakeholder Engagement
 - Printed Materials
 - Web-Based
 - Media
 - Outreach Tools

nationalgrid

HERE WITH YOU. HERE FOR YOU.

Tribal Consultation and Participation



Tribal Consultation - Then

nationalgrid

HERE WITH YOU. HERE FOR YOU.

- In the past, consultation with Native American Tribes was
 - Less common
 - Confined to areas on or near tribal lands
 - Dealt with “traditional” archaeology

Tribal Consultation - Now

- Today, consultation with Native American Tribes is much more common and robust:
 - Required under § 106 of the National Historic Preservation Act
 - Increase in Federally-recognized Tribes
 - Consideration given to ancestral lands
 - Expanded beyond “traditional” archaeology

Tribal Consultation - Now

- It is critical to engage with Native American tribes
 - Early in the process of project development
 - Cultivate and maintain relationships
 - Incorporate tribal input as a planning element of projects
 - Utilize tribal support much like a professional consultant
 - Recognize and respect differences in ideology and business

nationalgrid

HERE WITH YOU. HERE FOR YOU.

Visual Analysis



Visual Analysis - Then

nationalgrid

HERE WITH YOU. HERE FOR YOU.

- In the past, visual analysis was rudimentary
 - Engineering-based “renderings”
 - Considered only basic elements
 - Structure Heights
 - Immediate Topography
 - Sight Lines

Visual Analysis - Now

- Visual Analysis and Modeling has become an area of expertise and is a refined discipline
 - Viewshed Analysis
 - Visual Simulations
 - Simulated Drive-throughs and Fly-overs
 - Tools for analyzing visual impacts, but also tools for communicating project details and proposals

nationalgrid

HERE WITH YOU. HERE FOR YOU.

Changes in Project Approach



David Beron
Principal Project Manager

