Energy Infrastructure Planning
Salt Lake County
RMP Utah

- 892,849 customers
- 2,167 employees: $224 million payroll
- State property taxes: $69.1 million
- Net book value: $7.3 billion
Average Electricity Price by State

Source: Edison Electric Institute Sales and Revenue Data for the 12 months ending December 2017
Regional & Community Planning

- Involve stakeholders
- Develop siting criteria for substations and transmission lines
- Identify location options based on siting criteria
Determining Load
Determining Load
City Creek Center – SLC
• 700,000 sq. ft. office/retail
• 300 urban residences
• 13 megawatts of load
Master Planning
Master Planning

- Long-term plan providing conceptual layout for future growth and development
- Coordinates expansion of transmission system
- Develops solutions for improved reliability with the lowest community impact
10 Year Planning
• Plan to address near-term area load growth
• Based on realized growth patterns
• Identify multiple solutions and evaluate each using guidelines from the local planning handbook
• Develop project scope
Development Planning
Development Planning

- Determine network upgrades to serve a defined load
  - Delivery voltage
  - In-service date
  - Load forecast
  - Load type
  - Site plan
  - Customer accommodations

- Plan provides a reasonable least-cost solution to serve the development
Development Planning
Other Considerations

• Substation Siting
  • Availability of property
  • Distance from existing infrastructure
  • Space for transmission and distribution circuits
  • Access for large equipment

• Large concentration vs. small dispersed substations
  • Community impact
  • Reliability impact