Investing in a connected future

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Senior VP & acting SN Regional Manager
SMUD Board Meeting, Nov. 15
Who we are

- Serve 40 million Americans
- 15-state footprint
- 1.4 million square miles
- 49 offices
- ~700 customers
- Top-10 largest transmission utility in country
Distributed Generation
Storage alternatives

Photos courtesy of Bureau of Reclamation
Societal changes and technology enablers
Future of transmission?
# Transmission buildouts in the West

<table>
<thead>
<tr>
<th>SLTP</th>
<th>Southline</th>
<th>SunZia</th>
<th>CoSu</th>
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</table>
| • Duke American  
  • 85-mile, 230-kV line  
  • Northern CA  
  • Will power Reclamation’s San Luis Pumping Plant  
  • 600 MW | • Hunt Power  
  • 360-mile line  
  • New 345-kV line  
  • Upgrade 115 to 230  
  • Interconnects with 14 existing substations  
  • Between NM and AZ  
  • 1,000 MW | • SunZia  
  • 500-mile, 500-kV line  
  • Enables delivery of primarily wind energy  
  • From NM to AZ  
  • 3,000 MW | • SMUD  
  • 71-mile, 500-kV line  
  • Increase reliability & capacity of Northern California grid  
  • Coulsa to Sutter counties |
High voltage direct current

Existing and planned high-voltage direct current power lines
USVI solar farm (after)
Economics matters
A connected WAPA
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