RPU Generation and Transmission Resources
Energy Delivery to RPU

- SCE’s Vista Substation
- 557 MW
- At capacity limit
RPU Historic and Projected Load in Megawatts

- Historic Actual Load
- Future Projected Load
- Capacity Limit

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Most Probable Vista Event?
Vista Substation
Catastrophic Failure
Arizona Public Service
SCE Vincent Substation – March 2003
An Urgent Need!

- Single connection to State Grid – Vista Substation
- CAISO – build 2\textsuperscript{nd} source ASAP
- Total black-out October 2007
- Interrupted power to:
  - All Riverside Public Utilities customers
  - Schools
- And regional service providers:
  - Universities
  - Government
  - Hospital facilities
Riverside Transmission Reliability Project (RTRP)

• Joint Project with SCE
• City of Riverside Lead Agency
• Second connection to the state transmission grid:
  – 230 kV Transmission Line (SCE)
    • Appx. 9 miles long
    • Through Riverside, Norco, Jurupa Valley, and Riverside County
  – 230-69 kV Substations (Joint)
    • Two adjacent stations in the City of Riverside
  – 69 kV Sub-transmission Lines (RPU)
    • Entirely within the City of Riverside
Regional Benefits

- Adds nearly 560 MW of capacity
  - Frees up capacity for regional SCE customers
- Provides transmission for renewables
- Ensures reliable power supply to critical facilities - services benefit beyond city limits
- Strengthens the reliability of the state transmission grid serving the region
  - Emergency generation back to State Grid
  - Additional transmission paths
Regional Benefits *(continued...)*

- Supports critical electric customers:
  - Riverside County Administration
  - Riverside County Emergency Operations Center
  - Riverside County Communications Center
  - Riverside City Emergency Operations Center
  - Four Major Hospitals
  - Mills Filtration Plant
  - Regional Water Quality Control Plant
Route Selection Process

• Technical review analyzing all possible routes

• Evaluation using multiple criteria including:
  – Public Comment
  – Environmental Considerations
  – Land Uses
  – Engineering
  – Operation and Maintenance Activities
  – Cost
  – Right-of-Way
  – Regulatory Approvals
Originally Proposed Routes

RIVERSIDE TRANSMISSION RELIABILITY PROJECT
Eastern (Santa Ana River) Route

- Creates adverse impacts to land use, protected species, riparian habitat, wetlands, and the Santa Ana River floodway.
- Line would extend across special management areas known as Criteria Cells, which are important areas to conserve for special-status species.
- A take permit under the federal Endangered Species Act (ESA) would likely be required.
- Alternative would also exit out of the Riverside County Multi-Species Habitat Conservation Plan (MSHCP) territory.
Eastern Route (continued...)

- Requires additional biological studies through the requirement of a Habitat Conservation Plan (HCP) for compliance with the ESA.

- Construction of a transmission line in the corridor would present constructability and operational conflicts including building dams and levees which would impact river flow rates.

- If the line and structures were to collapse into the river during a flood event, a public safety hazard would be created.
Southern Connection

• Require New 500kV to 230kV Substation
  – Higher Environmental Impacts
  – Greater Project Footprint
  – 20 – 25 Miles of 230kV Transmission Lines

• SCE Valley Substation
  – 500kV to 115kV
  – Mira Loma/Vista 500kV to 230kV
  – Systems Cannot be Interconnected
  – Additional Equipment (3rd Substation) Required
  – Requires 4 Transmission Lines
  – Valley Substation to Riverside = 25 miles
Mailing List Boundary (also mailed to Interested Parties)
Public Outreach

• Newsletters mailed to project area
  – 7 newsletters (20,000 to 30,000 each)

• Open houses
  – 9 total, including 3 in the City of Jurupa Valley

• Presentations to interested parties
  – City and County Elected Officials
  – Jurupa Unified School District
  – Riverside County Airport Land Use Commission
  – Riverside Chambers of Commerce
  – Riverside City Council & Public Utilities Board
  – Cities of Jurupa Valley, Norco, Eastvale
• Website:  www.riversideca.gov/utilities/electric
• Project phone line: 951-710-5013
• Project email address: rtrp@riversideca.gov

• Shared information and documented public-concern
• Public-concern issues addressed in the EIR

• Technical Advisory Committee Meetings
  – 4 meetings with Riverside County airport, flood control, parks, etc.
Summary of Public Concerns

• Visual Impacts
• Health issues related to Electric and Magnetic Fields (EMF)
• Condemnation of property for right-of-way
• Negative impacts to property values
• “Eastern Route” is no longer considered a feasible alternative
• City “Lead Agency” for a project that is partially in the County
• Why not underground?
• Impact on airport operations
• Maps need more details
• Ensure that public noticing requirements are met
• Draft EIR failed to analyze project’s consistency with applicable land use plans, policies, etc.
EIR Schedule Summary

• **August through November 2011** - DEIR circulated for public review and comment
  – Circulated for 120 days
• **April 2012** – City Planning Commission recommended adoption of a Final EIR in compliance with CEQA
• **April 2012** – Riverside County Airport Land Use Commission found RTRP to be consistent with county land use plan
• **November 2012** – Regional Conservation Authority (RCA)
• **February 2013** – EIR Certified by Riverside City Council
Recommendation

That the Board of Public Utilities receive and file this report.
Riverside Transmission Reliability Project

Electric Committee
August 1, 2014
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- SCE’s Vista Substation
- 557 MW
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RiversidePublicUtilities.com
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Originally Proposed Routes

RIVERSIDE TRANSMISSION RELIABILITY PROJECT
Proposed Route

- Proposed 230 kV Transmission Line (I-15 Route)
- Proposed 69 kV Subtransmission Lines
- Mira Loma - Vista Transmission Line

Legend:
- Proposed 230 kV Transmission Line
- Proposed 69 kV Subtransmission Lines
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RPU 69kV City Routes

![Map showing RPU 69kV City Routes with substation locations and routes.]
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CEQA Litigation

• City of Jurupa Valley filed petition challenging the EIR
  – Trial was held on April 11, 2014 at Los Angeles County Superior Court in Norwalk
  – Judge ruled in favor of the City of Riverside denying the City of Jurupa Valley’s petition
  – On July 8, 2014 Jurupa Valley filed an appeal

• Schedule of litigation next steps
  – Jurupa valley’s opening brief due early September
  – City of Riverside’s brief due Oct-2014
  – Jurupa Valley’s reply brief due early Nov-2014
  – Hearing date will be scheduled for early to mid 2015
City of Riverside  
69kV Component Phase 1

- Litigation focused on 230kV component of RTRP, located mostly outside of the City of Riverside
- Portion of 69kV component is required improvement for transmission system to meet RPU’s reliability criteria as the load growth within the city continues
- 69kV Phase 1 is RERC to Freeman Substation, and RERC to Harvey Lynn Substation segments - needed immediately to relieve transmission congestion around RERC
Project Activity
69kV Component Phase 1

• Notice of Appraisals were sent to 93 affected property owners along RERC-Harvey Lynn and RERC-Freeman segments

• Appraisals nearly complete (only 20 outstanding)

• Negotiations with land owners for ROW acquisition underway
  – First 15 offer packages ready

• Steel pole procurement package out for bid – long lead time item
Project Schedule
69kV Component Phase 1

- RERC-HL and RERC-Freeman lines (Phase 1):
  - Secure all easements (estimated complete by June 2015)
  - Issue construction contract (mid to late 2015)
  - 18 to 24 months for construction, depending on phasing

- Balance of 69kV work will be scheduled as SCE approval for 230kV portion becomes more clear
230kV Project Activity

- California State Parks, Office of Grants and Local Services
  - Land and Water Conservation Fund (LWCF) conversion application process

- Regional Conservation Authority (RCA)
  - Riverside Multi-Species Habitat Conservation Plan (MSHCP)

- SCE project coordination meetings
  - Once litigation is resolved, SCE will begin the application process to obtain approval of the Certificate of Public Convenience and Necessity (CPCN) through the CPUC

- SCE currently estimates construction to start in mid 2018 with an in service date of late 2020
Recommendation

That the Board of Public Utilities receive and file this report.