

SUPPLEMENTAL APPROPRIATION TO RECEIVE THE SECOND TRANSMISSION CONNECTION TO STATE GRID - RTRP

Public Utilities Department

City Council January 26, 2021

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BACKGROUND

- 1. Riverside Transmission Reliability Project (RTRP) is a joint project with Southern California Edison (SCE) to provide City of Riverside a critical second connection to the state transmission grid to increase capacity and Improve reliability
- 2. January 20, 2006, the Board approved RTRP
- 3. City experienced complete blackout in 2007
- 4. California Independent System Operator (CAISO) ordered RTRP be built in 2009
- 5. February 5, 2013, the City Council certified the Final Environmental Impact Report (FEIR) for RTRP

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WHAT IS RTRP

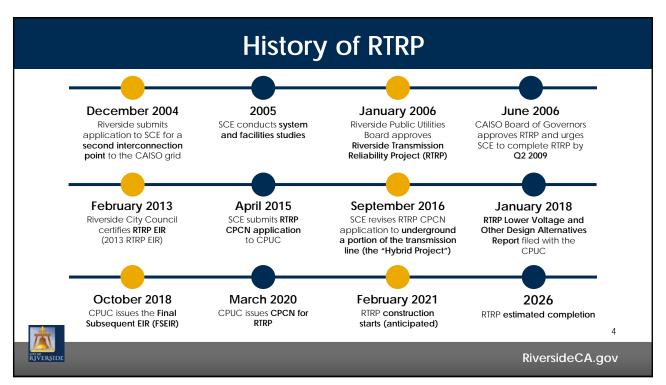
- RTRP consists of two major elements:
 - #1 **SCE's portion**: high voltage element constructed, owned, and operated by SCE (230 KV transmission line from Jurupa Valley including new Wildlife Substation in City)
 - #2 **City's portion:** 69kV element that will be constructed, owned, and operated by RPU (new Wilderness Substation, upgrades to existing substations, and 69 KV improvements and system bifurcation in City to incorporate the new connection into the RPU grid)
- Both elements #1 and #2 are required

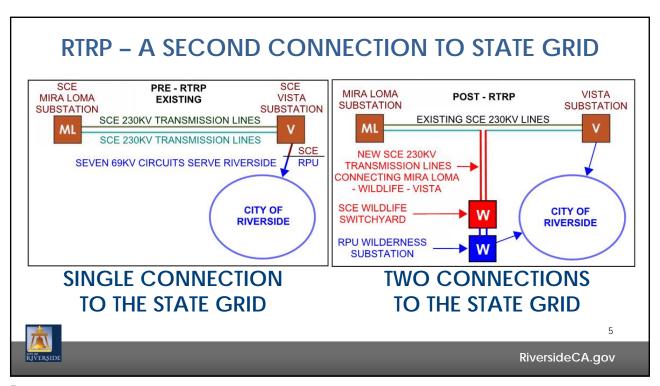


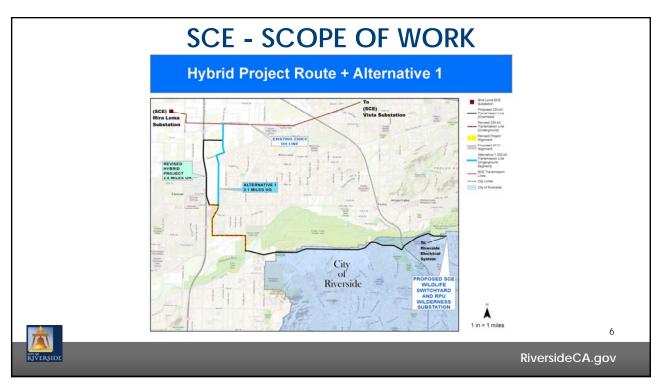
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SCE's Portion - Elements of Hybrid Project



Approximately 8 miles of new overhead 230kV transmission line



Approximately 2 miles of new underground 230kV transmission line



Telecommunication facilities between the existing Mira Loma and Vista Substations, and the proposed Wildlife Substation



Modifications of existing overhead distribution lines



Modifications at existing substations



New 230kV Wildlife Substation

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SCE's Portion - Elements of Alternative 1



Approximately 5.9 miles of new overhead 230kV transmission line



Approximately 4.1 miles of new underground 230kV transmission line



Telecommunication facilities between the existing Mira Loma and Vista Substations, and the proposed Wildlife Substation



Modifications of existing overhead distribution lines



Modifications at existing substations

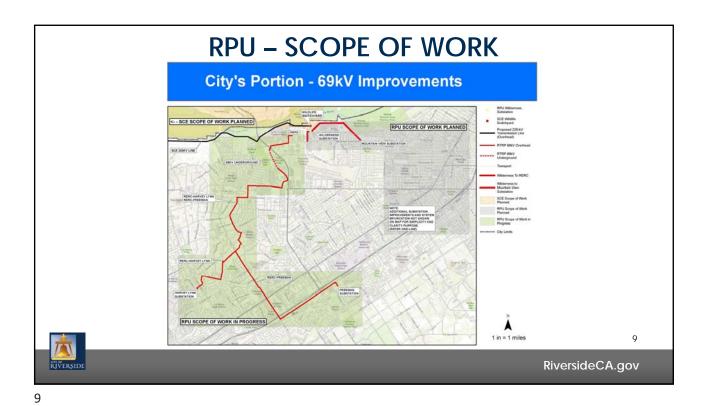


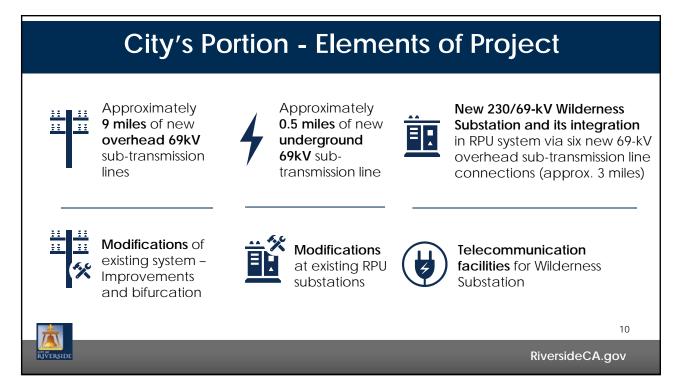
New 230kV Wildlife Substation



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RPU ELECTRIC SYSTEM BIFURCATION

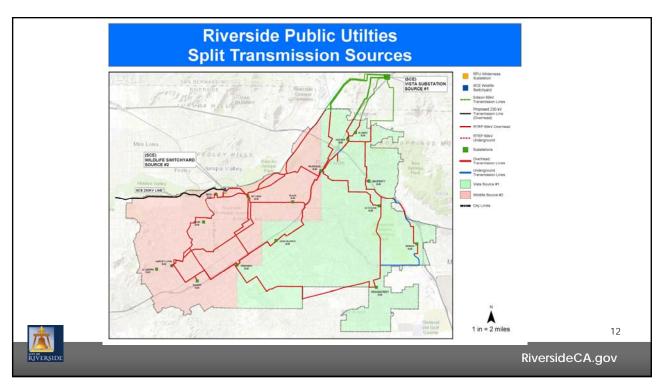
- 1. The RTRP project will divide RPU's electric system in two sections:– East and West systems
- 2. The East system will be served from SCE's existing Vista station (in Grand Terrace)
- 3. The West system will be served from SCE's new Wildlife Station (near Wilderness Avenue and Ed Perkic St. in Riverside)
- 4. Both systems are designed to operate in parallel under emergency conditions to meet reliability standards if one of SCE source is lost



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BOARD APPROVED AND IN-PROGRESS COMPONENTS

- 1. November 25, 2019 Board authorized an additional \$29,000,000 for RTRP WO 642975 for total amount of \$71,605,521
- 2. Project components for RPU, not dependent on CPUC approval:
 - a) RERC to Harvey Lynn & RERC to Freeman Sub-transmission lines
 - b) Materials Handling Yard
 - c) Harvey Lynn, Freeman and RERC substation upgrades
 - d) Support for CPCN application related matters and Preliminary design activities for remaining project components



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BOARD APPROVED AND IN-PROGRESS COMPONENTS (CONTINUED)

3. Total RTRP spending to date is \$ 48.7 Million.

Major Expenses	Description
\$15.4 Million	SCE costs related to CPCN and Interconnection Facility Agreement Activities
\$17.1 Million	Engineering and Consulting services (Legal, Real Estate)
\$8.8 Million	Construction Contracts and related activities
\$7.4 Million	RPU Engineering, Labor, Overhead & Miscellaneous Costs
\$48.7 Million	TOTAL

- 4. RPU's Reimbursable costs:
 - Costs of CAISO controlled facilities and costs in support of CPCN and CEQA related activities are subject to reimbursement from SCE per Interconnection Facilities Agreement with SCE
 - b) RPU has submitted requests for reimbursement of these costs to SCE in amount of \$21,785,355



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ADDITIONAL FUNDING AND BOARD APPROVAL FOR PROJECT COMPONENTS

- 1. March 12, 2020 CPUC approved RTRP and granted SCE Certificate of Public Convenience and Necessity (CPCN)
- 2. The work for the following project components will need to commence:
 - a) New 230/69kV Wilderness Substation
 - b) 69kV overhead connections to integrate Wilderness Substation in RPU electric system
 - c) Mountain View, Freeman, Riverside and RERC Substation Upgrades
 - d) 69kV system improvements to support new split system configuration
 - e) Support & Coordinate with SCE's 230kV scope of work
 - f) Regulatory and Compliance matters

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ADDITIONAL FUNDING AND BOARD APPROVAL PROJECT COMPONENTS (CONTINUE)

- 3. RPU scope of work for remaining component requires additional funding in the estimated amount of \$144,910,000
- 4. The \$144,910,000 funds will cover expenses related to:
 - a) Project management and engineering consultant services
 - b) Land Acquisition
 - c) Materials and Construction of new Substation and lines, system improvements and bifurcation
 - d) RPU internal labor, material, and equipment
 - e) Payments for Interconnection Facility Agreement charges with SCE



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RTRP Project Components		Estimate Total
New Wilderness Substation		57,711,000
Mountain View Substation upgrades		1,433,238
Freeman Substation upgrades		944,638
Riverside Substation upgrades		685,763
RERC Substation upgrades		440,000
Telecommunications work		1,000,000
System Integration of Wilderness Substation (66kV Overhead connections)		16,900,000
Equipment and Material Yard		1,470,000
Internal System Improvements to support modified system configuration:		
System Bifurcation and Compliance Matters		6,000,000
Casa Blanca Substation upgrades		6,079,613
Orangecrest Substation upgrades		854,638
Plaza Substation upgrades		440,000
Kaiser Substation upgrades		240,000

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ESTIMATED COSTS (CONTINUED) RTRP Project Components **Estimate Total** Project Contract/Consultant staff - Labor 7,500,000 Customer/Community Outreach, General Project Communications 500,000 \$ Additional legal support 600,000 \$ IFA - Interconnection Facilities Agreement Payments \$ 15,935,411 Subtotal \$ 118,734,301 Contingency (20% of subtotal) 23,746,860 **Adjustments** Interconnection Facilities Agreement costs up to CPUC approval date 900,000 \$ of March 12, 2020 Adjustment to cover additional contingency for Steel Poles for the RERC 315,303 \$ - Harvey Lynn line PO#153271 Labor costs to support RERC - HL, RERC-FRMN line Construction 600,000 \$ Adjustment to cover additional 10% contingency for overhead \$ 613,000 Construction contract and materials for RERC-FRMN Total 144,909,464 18 RiversideCA.gov

PROJECTED CASH FLOW/SPENDING BY FISCAL YEAR

Estimated Cash Flow Needs by Fiscal Year				
Fiscal Year	Funding for Planned Expenses			
FY 2020-2021	\$ 43,363,827			
FY 2021-2022	\$ 45,043,883			
FY 2022-2023	\$ 30,607,687			
FY 2023-2024	\$ 13,619,587			
FY 2024-2025	\$ 11,207,112			
FY 2025-2026	\$ 1,067,368			
Total	\$144,909,464			



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SUPPLEMENTAL APPROPRIATION

- A supplemental appropriation of \$125,000,000 to Account No. 6130000-470685 is needed to fund the \$144,910,000 for construction of remaining RTRP project components
- 2. August 24, 2020, the Board of Public Utilities, with seven members present, unanimously recommended that the City Council approve a supplemental appropriation of \$125,000,000 from Electric Fund
- 3. The City's FY 2020/2021 Emergency Budget was a direct result of the COVID-19 pandemic and did not allow for the regularly scheduled budget conversations and approval requests to increase the Capital Improvement Budget
- 4. When the City's Capital Improvement Budget is next reviewed, this supplemental appropriation will be included for the Project

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RIVERSIDE

RECOMMENDATION

That the City Council approve a supplemental appropriation in the amount of \$125,000,000 to RTRP Account No. 6130000-470685 from the Electric Fund (Fund 510) for Riverside Transmission Reliability Project components, including Wilderness Substation, line work, and associated components as presented herein.



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