

INSTALLATION AND OPERATION OF BATTERY STORAGE SYSTEMS AT THREE WATER PRODUCTION AND TREATMENT LOCATIONS

Riverside Public Utilities

Board of Public Utilities May 10, 2021

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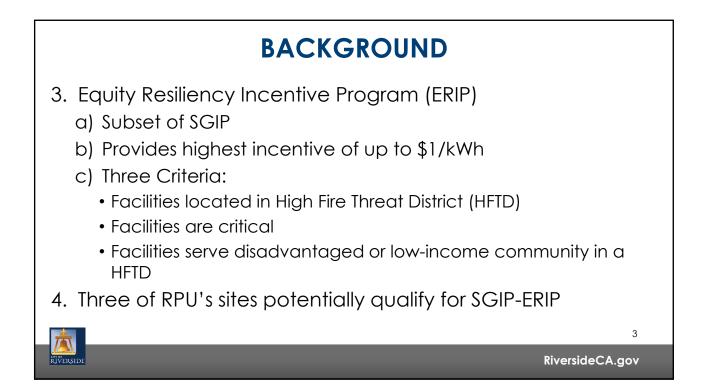
BACKGROUND

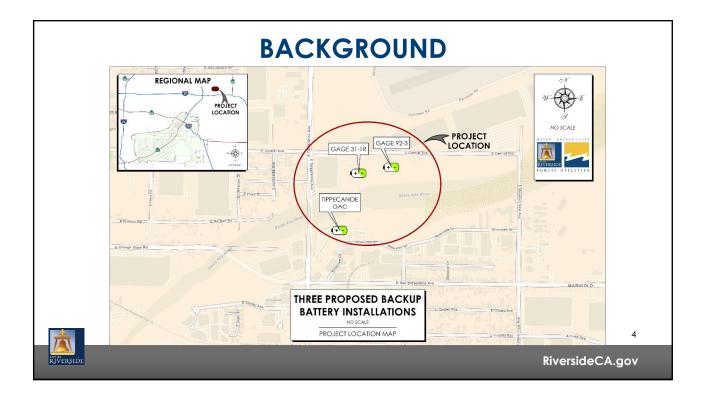
- 1. SCE provides power to RPU facilities in San Bernardino
- 2. Public Safety Power Shutoff (PSPS) are:
 - a) Called when fire risk is elevated due to winds
 - b) Continuing to increase over time
 - c) Impacting RPU's water facilities more often
- 3. Self Generation Incentive Program (SGIP)
 - a) \$1 Billion set aside by CPUC

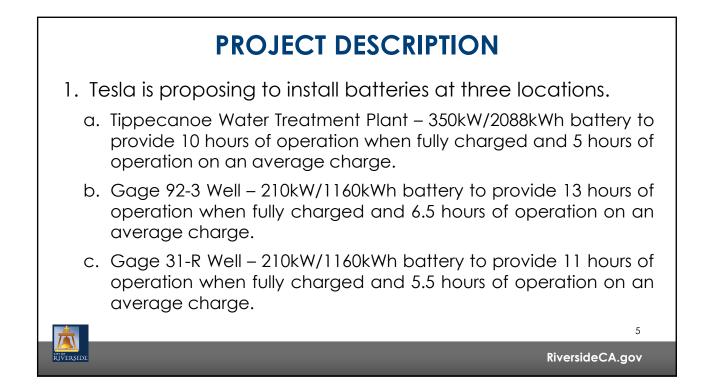
b) Funds Battery Energy Storage Systems (BESS) installations

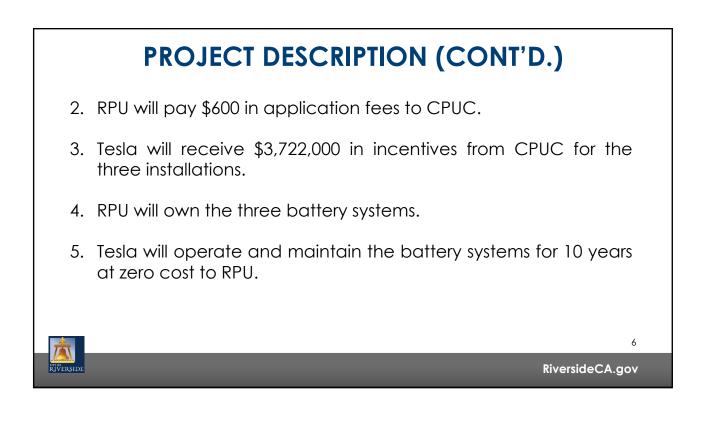
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PROJECT BREAKDOWN						
Facility	Output Rating (kW)	Battery Size (kWh)	Fully Charged Backup Duration (hrs)	Avg. Backup Duration (hrs)	Project Construction Cost	SGIP Incentive
Tippecanoe WTP	350	2088	10	5	\$1,227,151	\$1,722,000
Gage 92-3 Well	210	1160	13	6.5	\$749,453	\$1,000,000
Gage 31-R Well	210	1160	11	5.5	\$749,453	\$1,000,000
Totals	770	4408		5.5	\$2,726,056	

RECOMMENDATIONS

That the Board of Public Utilities recommend that the City Council:

- 1. Authorize grant applications to the California Public Utilities Commission's Self-Generation Incentive Program for battery storage systems in the estimated amount of \$3,722,000;
- 2. Authorize the City Manager, or his designee, to accept the amount awarded, including amounts lesser or greater than the amount applied for, and execute all grant documents including making minor and non-substantive changes to documents associated with the grant;

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RECOMMENDATIONS

- 3. Approve three Energy Products Purchase Agreements, and Energy Products Operation and Maintenance Agreements for battery storage systems with Tesla, Inc. for: Gage 31-R Well, Gage 92-3 Well, and Tippecanoe Water Treatment Plant, respectively; and
- 4. Authorize the City Manager, or his designee, to execute the three agreements with Tesla Inc., including any amendments required for purchase, installations and continued operation of the battery storage systems.

