

Amended and Restated PPA -San Bernardino Wells Solar PV Project

Board of Public Utilities

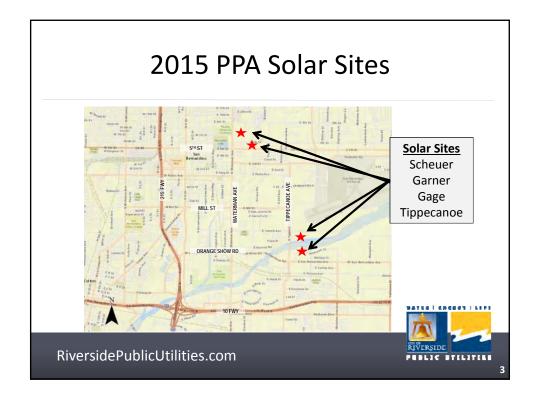
December 12, 2016

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Background

- 1. June 2012 Water Energy Management Plan
 - ~ \$500K Annual Savings for Solar
- 2. April 2015 Executed PPA with Solar Star
 - a. Scheuer, Garner, Gage & Tippecanoe (5.50 MW)
 - b. Anticipated \$23.5 million NPV
 - c. ~\$1M Annual Savings





Project Challenges

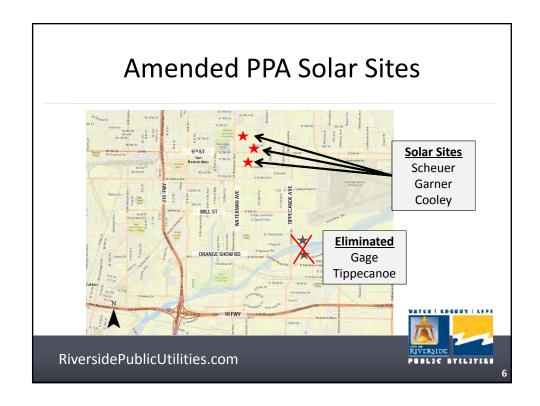
- Environmental & Permitting Impacts
 Tippecanoe & Gage Sites Eliminated (1.5 MW)
- 2. Greater than expected upgrades for SCE
 - a. 14 Month Delay
 - b. ~\$500K impact
- 3. Costly Conditions from the City of San Bernardino
- 4. CEQA Mitigation Costs and Schedule Impacts

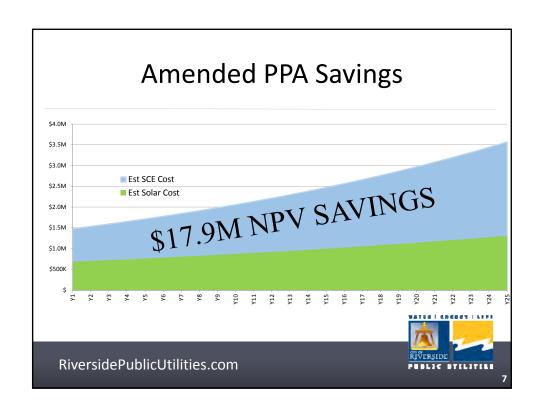


Amended PPA

- November 2016 Amend PPA
 Scheuer, Garner and Cooley Sites (4.50 MW)
- 2. ~ 12,000 MWh / Year of renewable energy
- 3. ~ \$800K in Annual Cost Savings in Year 1
- 4. Average 59% Savings Compared to SCE Rate







PPA Terms and Benefits Summary Comparison 2015 PPA **Attribute Amended PPA** 5.50 MW 4.50 MW Capacity \$53.50/MWh \$57.75/MWh Rate Escalation 3% 3% Term 25 Years 25 Years **Buyout Option** Year 6 & 10 Year 6 & 10 **Commercial Operation Date** Garner & Cooley - Oct 23, 2017 April 1, 2016 Scheuer - Dec 31, 2017 **Outside Commercial** Garner & Cooley - Dec 23, 2017 October 1, 2017 **Operation Date** Scheuer – March 12, 2018 RiversidePublicUtilities.com PEBLIC STILITIES

PPA Terms and Benefits Summary Comparison Cont'd

Attribute	2015 PPA	Amended PPA
NPV Savings	\$23.5 Million at 5.5 MW	\$17.9 Million at 4.5 MW
Sites to be Developed	Scheuer, Garner, Gage and Tippecanoe	Scheuer, Garner and Cooley
Financial Penalty Cap	\$250,000	\$625,000
Daily Damage Penalty	\$2,500/day	\$1,500/day for NEMA Sites \$3,500/day for RES-BCT Site
Estimated Annual Savings	\$1 Million	\$0.8 Million

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Other Amended PPA Attributes

- 1. Performance Guarantee Minimum of 85%
- **2.** Buyer's Termination Option Terminate if project is not completed on time
- 3. Daily Delay Damages Penalties for late start
- **4. Regulatory Costs** Share future regulatory costs up to \$30,000/year with a maximum \$200,000 over term of PPA

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Project Schedule

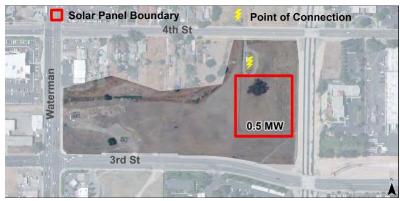
Milestone	Garner & Cooley	Scheuer
IS/MND Adoption	January 10, 2017	
Final Design	December 19, 2016	December 19, 2016
Start of Construction	May 15, 2017	May 15, 2017
Guaranteed COD	October 23, 2017	December 31, 2017
Outside COD	December 23, 2017	March 12, 2018



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Scheuer & Garner Site Solar Panel Boundary Point of Connection Riverside Public Utilities.com

Cooley Site



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Recommendations

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

- Approve the 25-year Amended and Restated Power Purchase Agreement between Solar Star California XXXIX, LLC and the City of Riverside to design, construct, operate and maintain a cumulative 4.50 megawatt solar photovoltaic energy generation to be located on the Well Sites;
- Authorize the City Manager, or his designee, to execute the Amended and Restated Power Purchase Agreement, as well as any future amendments or extensions to the Amended and Restated Power Purchase Agreement under the terms and conditions substantially similar or superior to this Amended and Restated Power Purchase Agreement;

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Recommendations Cont'd

- 3. Authorize the City Manager, or his designee, to execute any documents necessary to administer the Amended and Restated Power Purchase Agreement that are consistent with the established policies by the City Council; and
- 4. Authorize the City Manager, or his designee, to terminate the Amended and Restated Power Purchase Agreement for circumstances provided in the Amended and Restated Power Purchase Agreement.



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Questions?

