



OAKLAND UNIFIED
SCHOOL DISTRICT
Community Schools, Thriving Students

OUSD Phase 2 Solar Projects Facilities Committee Meeting November 18th, 2021



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Ask of the Committee

- The purpose of this item is to present the opportunity to install 3.5 MW of Solar Photovoltaics across 26 school sites, almost doubling OUSD's current solar production potential.

Outline

- Introduction to Project partners
- Fulfilling Board Resolution 2021-0081 - Climate Emergency Action
- Comparison of OUSD Phase 1 and Phase 2 solar PV projects
- Review the Power Purchase Agreement Financing Model
- Review Net Energy Metering Policy Considerations
- Local Participation Plan (LBU + PLA)
- Phase 2 Project List

School Project for Utility Rate Reduction

- SPURR: School Project for Utility Rate Reduction
 - Joint Powers Authority Founded in 1989
 - Buying Consortium of 300+ USDs & CCDs
 - Aggregated Procurement for Utilities
- REAP RFP: Renewable Energy Aggregated Procurement
 - **Save time:** Streamline solar buying process.
 - **Save money:** Drive down project pricing.
 - **Reduce risk:** Improve contract terms and conditions.
- REAP RFP Solicitation:
 - Multiple different solar project types included.
 - Specific project includes, excludes, and assumptions.
 - 30+ Vendor Solicitations, 7 Proposals Received.

Winning Firm: ForeFront Power



Forefront Power

- **+1,000 MW** of Solar & Storage
- **California Public Sector Leader**
- **DSA Leader: +85MW Completed**
- **'A' Rated Parent Company** – Mitsui & Co
- **Renewable Project Finance Leader**
- **SPURR REAP Winner**

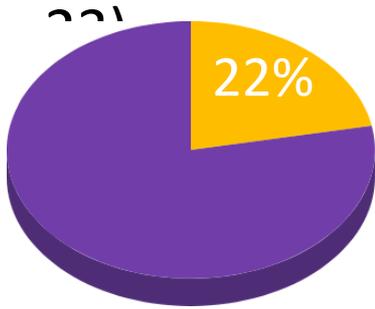


Board Resolution 2021-0081

- OUSD Climate Emergency Action Resolution passed in October 2020, set two goals:
 - Utilizing 100% clean electricity by 2030
 - Eliminating the use of fossil fuel by 2040
- This phase II solar project contributes to our clean electricity goal, while also saving the district at least \$6,000,000 over 20 years
- The solar canopies also provide necessary schoolyard shade during summer months and extreme heat events

OUSD Phase 1 vs Phase 2 Solar PV

Phase 1 (2014-15)

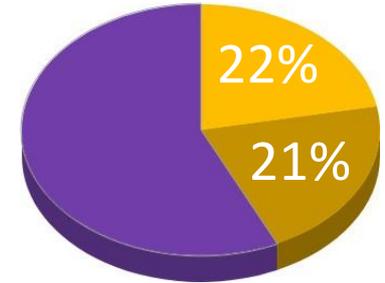


17	# of Sites	26
4.5 MW	Production Capacity	3.5 MW
Cash	Procurement Type	PPA

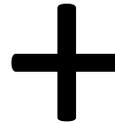
District-Wide Solar Electricity Offset



Phase 2 (2022-)



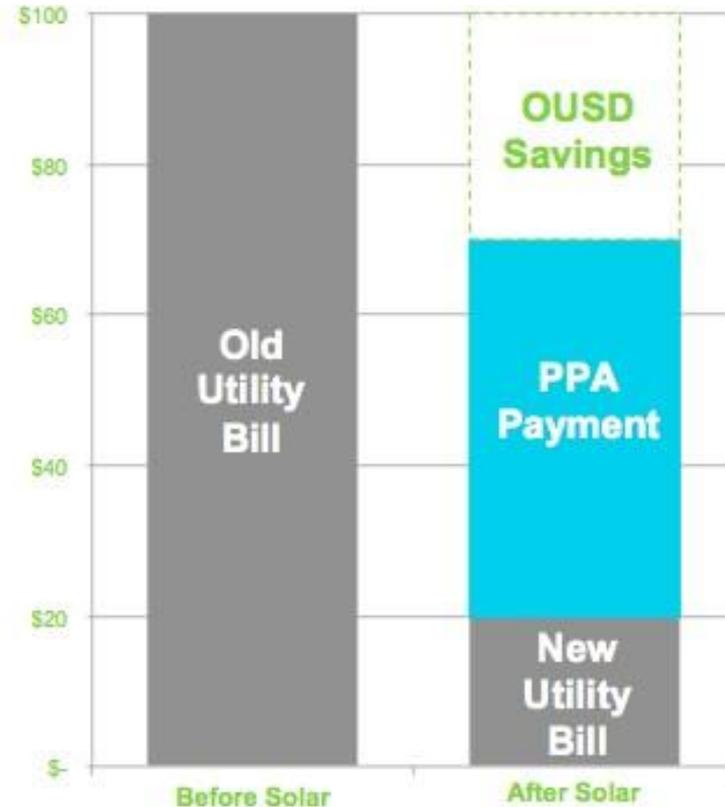
District-Wide Solar Electricity Offset



With the completion of phase 2, OUSD will have the equivalent of **21 football fields** worth of solar panels.

Power Purchase Agreement

- No Upfront Cost
- 0% Cost Escalator for 20 Years
- Utility Rate Hedge
- Monetize 26% Tax Credit
- Limited OUSD Risk
- Operations & Maintenance Included
- Guaranteed Performance



Solar Policy Update - Net Energy Metering

■ What is Net Metering:

- Net Energy Metering: PG&E pays OUSD for exported solar energy.
- Current program (NEM 2.0) maximizes payment to OUSD.
- NEM 2.0 pays OUSD near full retail energy payment



Energy you
PRODUCE

—



Energy you
CONSUME

=

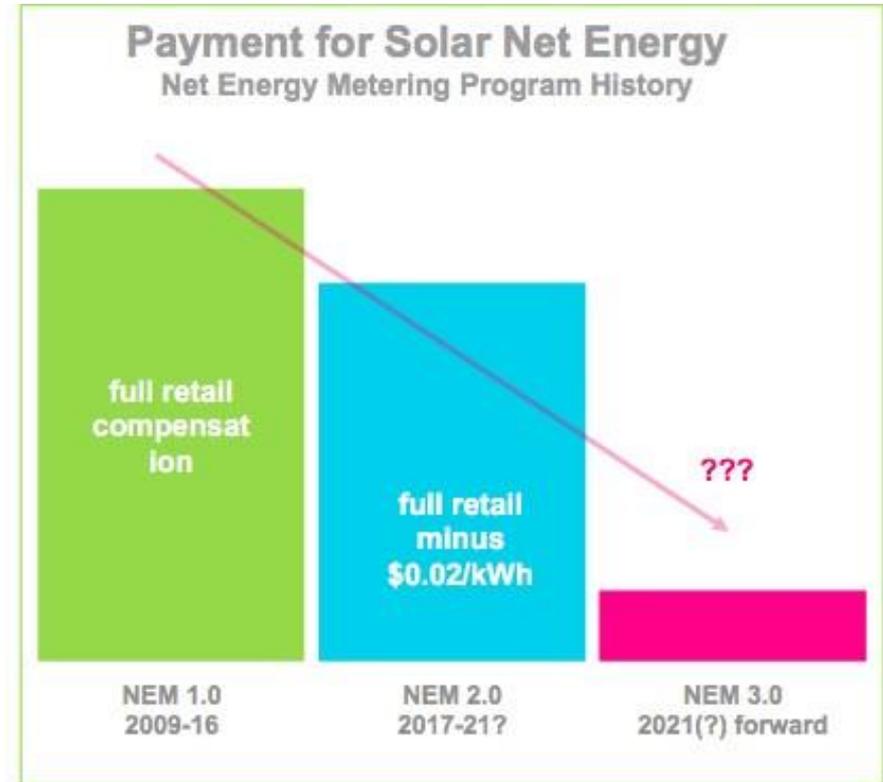


NET
ENERGY

*NEM 2.0 = Full Retail Rate minus Non-Bypassable Charges (~\$0.02/kWh)

Solar Policy Update - Net Energy Metering

- What is NEM 3.0?
 - CPUC changing solar rules
 - New Rules = NEM 3.0
 - Reduced payment for solar expected
 - Reduced energy bill savings expected
 - Timing: Jan/Feb 2022
- OUSD needs to approve Phase 2 before EOY to secure NEM 2.0



What is the impact if NEW 2.0 is not secured?

NEM 2.0 vs. NEM 3.0 Savings



■ Contract signed before 2022

■ Contract signed in 2022

*NEM 3.0 Savings Based on PG&E Proposal

Local Business Inclusion Commitment

- Forefront Power’s commitment:
Award Oakland businesses at least \$3,800,000 of the total construction budget.

Phase 2 (2022-23)



Phase 2 Project List

Site	Evaluation Status	Solar Size	Production (kWh)	% Energy Offset	20 Year Savings
Brookfield Campus	In Progress	86	124,027	83%	\$165,363
Claremont Campus	In Progress	110	161,787	76%	\$167,160
Cleveland Campus	Complete	55	83,753	56%	\$87,221
Cole Admin	In Progress	235	363,764	80%	\$258,982
Elmhurst Campus	In Progress	157	233,865	73%	\$204,049
Fremont Campus	In Progress	274	426,982	62%	\$391,372
Frick Campus	Complete	141	219,778	77%	\$124,473
Glenview Campus	Complete	157	240,545	91%	\$329,847
Highland Campus	Complete	125	191,743	62%	\$209,263
Hoover Campus	Complete	102	157,396	90%	\$254,788
Horace Mann Campus	Complete	85	129,886	90%	\$186,596
Howard Campus	Complete	55	81,376	87%	\$43,765
Kings Estates Campus	Complete	118	153,135	95%	\$230,657
Lakeview Campus	Complete	94	139,343	92%	\$231,643
Laurel Campus (Rooftop)	In Progress	68	101,209	60%	\$145,418
Lockwood Campus	Complete	274	412,365	90%	\$749,709
Madison Campus	Complete	204	316,647	78%	\$490,041
Manzanita Campus	Complete	125	193,658	70%	\$446,433
MLK Jr. Campus	Complete	118	157,268	42%	\$219,233
Parker Campus	Complete	63	90,888	63%	\$123,629
Prescott Campus	Complete	149	239,506	93%	\$160,369
Reach Academy (Cox) Campus	Complete	141	217,754	72%	\$223,841
Redwood Heights Campus	Complete	69	105,979	90%	\$137,711
Stonehurst Campus	Complete	125	194,354	71%	\$287,464
The Center Campus	Complete	94	142,432	18%	\$17,330
Woodland Campus	Complete	290	434,995	95%	\$225,108
Total		3,514	5,314,435	77%	\$6,111,465



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