



OAKLAND UNIFIED
SCHOOL DISTRICT

Community Schools,
Thriving Students

California Solar Initiative Projects

MEASURE "J" BOND PROJECT

11/13/13





SCHOOLS INCLUDED IN THIS PHASE:

High Schools:

***Castlemont High
McClymonds High
Oakland Int'l at Carter
Oakland High
Oakland Tech
Skyline High***

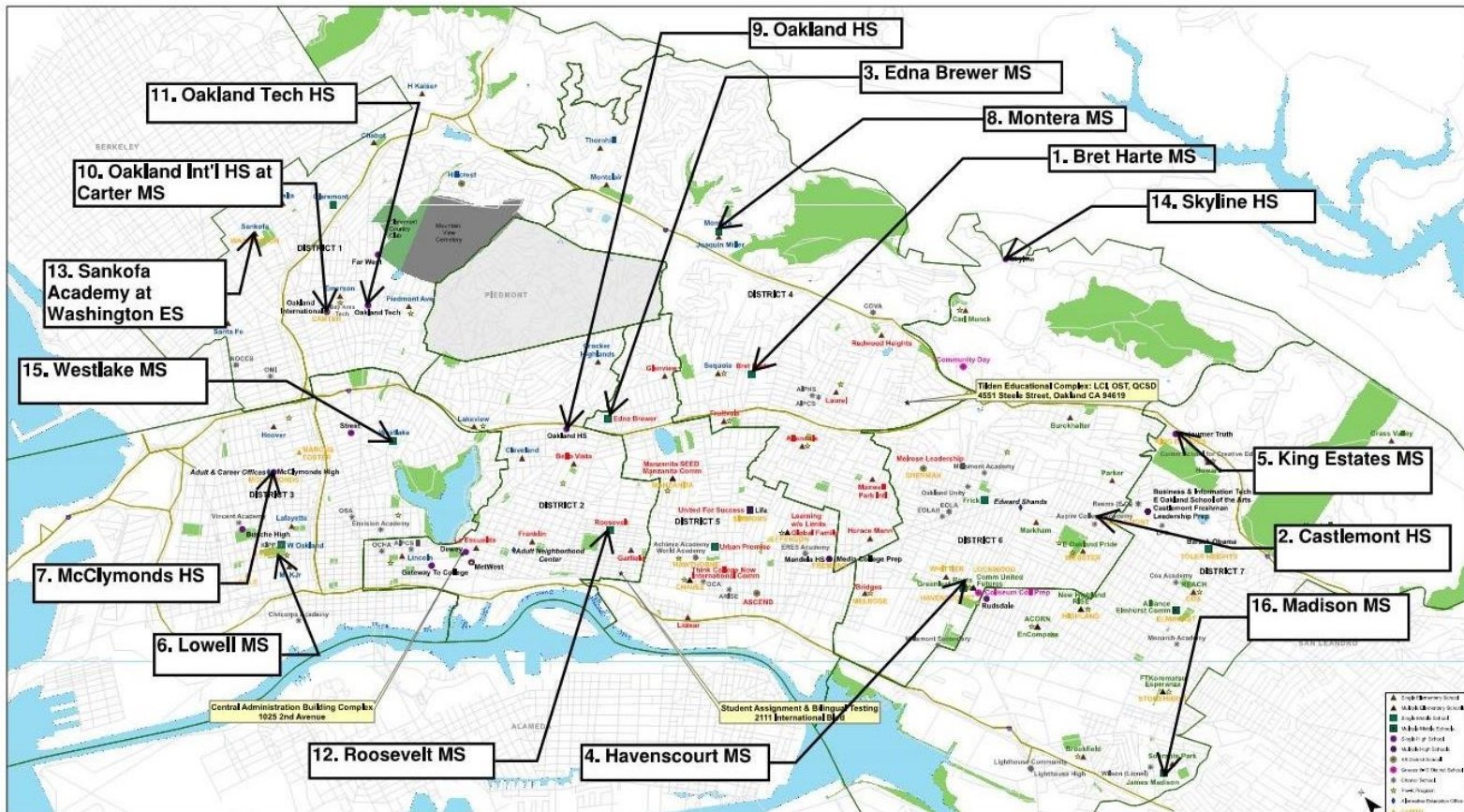
Elementary & Middle Schools:

***Bret Harte Middle
Edna Brewer Middle
Havenscourt Middle
Lowell Middle
Madison Middle
Montera Middle
Roosevelt Middle
Sankofa Academy at Washington
Westlake Middle
King Estates Middle***

3.6mW across seventeen (16) School Sites, District-wide



District – Wide Projects: California Solar Initiative (CSI) Projects (at 16 sites)





SUNPOWER DESIGN / BUILD AGREEMENT:

SCOPE OF WORK	COST
Capital Charges	
Solar PV Work at All School Sites	\$28,723,139
Allowance – Roofing upgrades/replacements at School Sites identified in Schedule of Values	\$6,357,831
Allowance – Electrical equipment upgrades at School Sites identified in Schedule of Values	\$590,000
Capital Charges Subtotal	\$35,670,970
Service Charges (paid quarterly)	
Twenty-five Year Operations and Maintenance – Per Separate Agreement	\$4,133,004
Twenty-five Year Output Guarantee – Per Separate Agreement	\$980,430
Service Charges Subtotal	\$5,113,434
TOTAL FOR CAPITAL AND SERVICE CHARGES	\$40,784,404



System Summaries in Final Contract and NTP 4

Site	System Size (kWp)	System Type	Expected 1st year PV Output (kWh) ("Expected Energy")
Bret Harte MS	204.06	Roof	301,633
Castlemont HS	443.41	Roof/Parking	641,985
Edna M. Brewer MS	156.96	Roof	227,747
Havenscourt MS	133.42	Roof	197,288
King Estates MS	89.93	Roof	132,910
Lowell MS	172.66	Roof	250,180
McClymonds HS	291.68	Roof	425,293
Montera MS	211.90	Roof	311,879
Oakland HS	408.10	Roof	602,101
Oakland International HS at Carter MS	114.45	Roof	165,594
Oakland Technical HS	470.55	Roof/Parking	701,503
Roosevelt MS	125.57	Roof	184,674
Sankofa Academy at Washington ES	57.23	Roof	86,131
Skyline HS	452.57	Roof/Parking	580,077
Westlake MS	120.34	Roof	176,528
Madison MS (replacing Woodland)	180.50	Roof	260,448
Totals	3,633.33		5,245,970





OAKLAND UNIFIED SCHOOL DISTRICT

Community Schools, Thriving Students

NEXT STEPS:

- *OUSD – secure Measure J funds (COMPLETED)*
- *Finalize design with DSA*
- *Complete bidding process*
- *Start Construction!*


SUNPOWER
E20/327 SOLAR PANEL

20% EFFICIENCY
SunPower E20 panels are the highest efficiency panels on the market today, providing more power in the same amount of space.

MAXIMUM SYSTEM OUTPUT
Comprehensive inverter compatibility ensures that customers can pair the highest efficiency panels with the highest efficiency inverters, maximizing system output.

REDUCED INSTALLATION COST
More power per panel means fewer panels per install. This saves both time and money.

RELIABLE AND ROBUST DESIGN
SunPower's unique Maxeon™ cell technology and advanced module design ensure industry-leading reliability.




THE WORLD'S STANDARD FOR SOLAR™
SunPower™ E20 Solar Panels provide today's highest efficiency and performance. Powered by SunPower Maxeon™ cell technology, the E20 series provides panel conversion efficiencies of up to 20.1%. The E20's low voltage temperature coefficient, anti-reflective glass and exceptional low-light performance attributes provide outstanding energy delivery per peak power watt.

SUNPOWER'S HIGH EFFICIENCY ADVANTAGE

Technology	Efficiency
THIN FILM	10%
CONVENTIONAL	14%
E18 SERIES	18%
E19 SERIES	19%
E20 SERIES	20%

MAXEON™ CELL TECHNOLOGY
Powered, all back-contact solar cell, providing the industry's highest efficiency and reliability.

sunpowercorp.com



Example: Solar Panel Data Sheet

