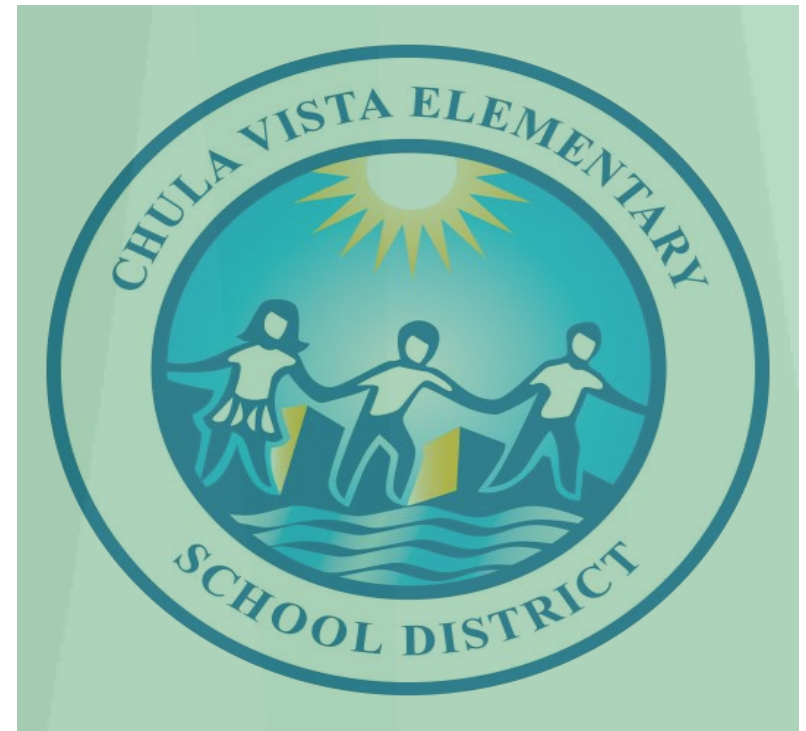




CHULA VISTA ELEMENTARY SCHOOL DISTRICT SOLAR POWER PROJECT

Presentation Outline

- **Background**
- **Scope of Project**
- **Request For Proposal (RFP) Issuance**
- **Proposals**
- **Finalists and Interviews**
- **Final Selection**



Background

- April 2018: The Board authorizes solar feasibility study.
- September 2019: The Board approves solar Request for Proposal (RFP) process.
- March 2020: Measure M (\$300M) general obligation bond measure passed by voters - includes solar power project purchase.
- June 2020: RFP issued for District-wide solar power project.

Scope of Project

- 47 School Sites, includes School No. 47 (ORV3).
- Educational Services and Support Center (ESSC).
- Transportation Bus Yard
- 8.1 Mega Watt (MW) solar energy generation – enough electricity to cover 85-95% of all electrical energy generated for District.
- One Battery Microgrid systems at District Office - enough battery power to provide backup during power outages.

RFP Timeline

Request for Proposals Issued

June 12, 2020

Proposals Due

August 14, 2020

Interviews

Sept 2-3, 2020

Final Selection

October 2020

5 Full Proposals Received



Proposals Analyzed and Compared

CVESD Solar Proposals		Legend:				
EcoMotion Comparison 8/18/20		Missing / Clarifying		Verifying		
		Ameresco	Baker Electric	Engie	Schneider	SunPower
4	Total Project Comparison	Notice to proceed to final	Notice to proceed to final	Notice to proceed to final	Notice to proceed to final	Notice to proceed to final
5	Construction Schedule	8/27/20 to 12/17/21	10/5/20 to 6/21/22	9/30/20 to 4/22/22	10/28/20 to 1/1/22	8/28/20 to 6/1/22
7	Potential subcontractor list	4 Stel Engineering	GoElectric (microgrid) & ESS	MBL Energy	MBarC Construction	
8	Potential subcontractor list	MBarC Construction	Omnidian (O&M)	MBarC Construction		
9	Potential subcontractor list	Teichart Construction	MBarC Construction	M.B. Herrero		
10	Potential subcontractor list	CSI Electrical				
12	Base Bid - Solar Only					
13	Total Cost					
14	Total DC Nameplate (kW)					
15	\$/kW					
16	Total					
17	\$/kW					
18	kWh/y					
19	Monitors					
20	Monitors					
21	M&V Year					
22	M&V 25					
23	O&M Year					
24	O&M 25					
25	Monitoring					
	PV System Equipment					
	PV Modules					
	Size					
	Warranty (Years)					
	PV Reliability (DNVGL Report)					
	Degradation rate					
	Inverters					
	KW AC					
	Efficiency (CEC)					
	Warranty (Years)					
	Extended Warranty (Years)					
	Extended Warranty Cost					
	Steel Structure Company					
	110 Outlet on interior structures					

CVESD Solar Proposals		Legend:				
EcoMotion Comparison 8/18/20		Missing / Clarifying		Verifying		
		Ameresco	Baker Electric	Engie	Schneider	SunPower
	Hamwha Q Peak 400W	79.3" x 39.4" x 1.38"	Hamwha Q Cells 395W 79.3" x 39.4" x 1.38"	LG-450W 82.68" x 41" x 1.57"	420W Trina Tallmax 79.69" x 39.53" x 1.38"	Trina DM Bifacial 405W
		25	25	25	25	25
		Yes	Yes	Yes	Yes	Yes
		0.54%	0.54%	0.33%	0.50%	0.50%
	Chint SCA	25KTL-00/US-480	SUNNY TRIPOWER CORE1 33 kW 50/kW	Chint Power Systems 50/ 60kW/ 36 kW, 1000 Vdc	Chint SCA CPS SCA25KTL-00/US-208	Delta 80/60/42 80kW 60kW 42kW
		98%	97.50%	98.5%; 98%	98%	98%
		10	10	10	10	10
		Free replacement	available to 15/20	available to 15/20	available to 15/20	available to 15/20
	MBarC	each column	MBarC	MBarC	MBarC	Teichert Energy

Two Finalists



VS.



Online Presentations and Interviews



Evaluation Criteria for Final Selection

Considered:

- Net Savings/Value
- Experience
- Strength of Company
- Construction Schedule
- Quality of Equipment
- Project Management
- Maintenance Capability



Final Selection



**Project : 8.1 MW Photo Voltaic System
District Office Battery Backup (Microgrid)**

25 Year Performance Guarantee

25 Years Maintenance

Contract Cost: \$32,587,551

\$205,987 - Annual Maintenance & Operations Cost

25 Year Electric Bill Savings : \$109,180,844

Timeline: 18 months

Chula Vista Elementary School District Solar Project Financial Analysis

Cost of Solar System (including microgrid): \$ 32,587,551

25-year Savings: \$109,190,844

Less: 25-Years Maintenance & Operations: (\$ 7,510,134)

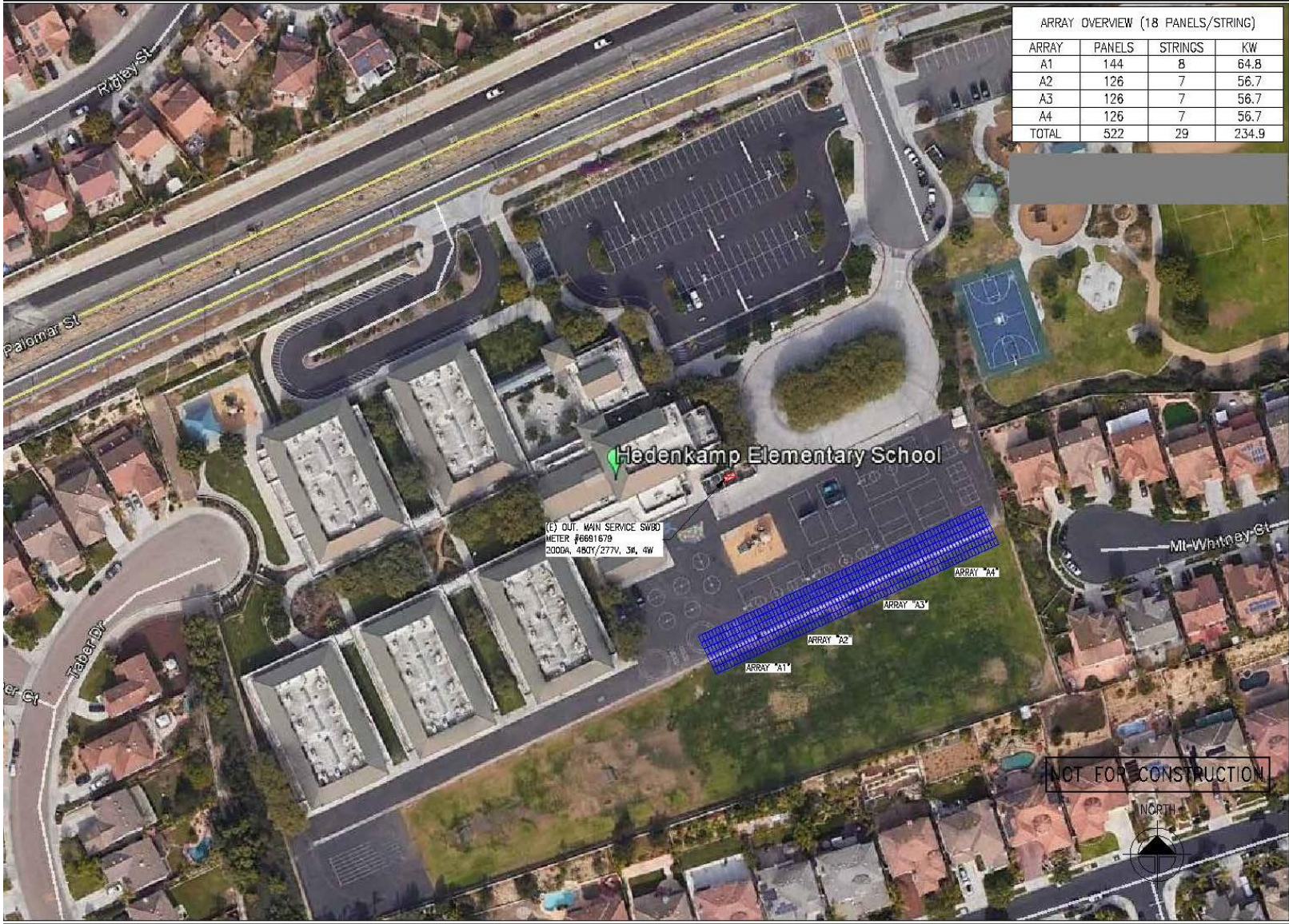
Less: Inverter Replacement (Year 15): (\$190,000)

Net Savings: \$101,490,710

25 Year Net Savings (Cost less Net Savings): \$68,903,159*

** Savings based on 8.1 MW solar capacity; 3% annual utility increases; \$3.70 cost per watt*

Proposed Solar Panel Placement at Anne and William Hedenkamp Elementary



ARRAY OVERVIEW (18 PANELS/STRING)			
ARRAY	PANELS	STRINGS	KW
A1	144	8	64.8
A2	126	7	56.7
A3	126	7	56.7
A4	126	7	56.7
TOTAL	522	29	234.9



REV	DATE	BY	DESCRIPTION

HEDENKAMP E.S.
PRELIMINARY PV LAYOUT
 930 E PALOMAR ST

SCALE	
PROJECT NO.	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
DATE	
LAYOUT '08	
SHEET COUNT	
SHEET (COUNT)	
SHEET (COUNT)	
FILE NAME	

PV-001

Proposed Solar Panel Placement at Hilltop Drive Elementary



ARRAY OVERVIEW (18 PANELS/STRING)			
ARRAY	PANELS	STRINGS	KW
A	162	9	72.9
B	126	7	56.7
TOTAL	288	16	129.6



REV	DATE	BY	DESCRIPTION

HILLTOP DRIVE E.S.
PRELIMINARY PV LAYOUT
 30 MURRAY ST
 CHULA VISTA, CA 91910

NOT FOR CONSTRUCTION



SCALE	
PROJECT NO.	
DRAWN BY	
CHECKED BY	
DATE	10/
SHEET NO.	
TOTAL SHEETS	
DATE (DWG)	
DATE (REV)	
FILE NAME	

PV-001

Proposed Solar Panel Placement at Vista Square Elementary



ARRAY OVERVIEW			
ARRAY	PANELS	STRINGS	KW
A1	126	7	56.7
A2	126	7	56.7
A3	126	7	56.7
TOTAL	378	21	170.1



REV	DATE	BY	DESCRIPTION

VISTA SQUARE E.S.
PRELIMINARY PV LAYOUT
540 G ST.

NOT FOR CONSTRUCTION



SCALE _____
PROJECT NO. _____
DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____
DATE _____
LAYOUT TMB _____
SHEETS _____
SHEETS (CONT) _____
SHEETS (CONT) _____
FILE NAME _____

PV-001

Proposed Solar Panel Placement at Education Services and Support Center (District Office)





**We Welcome
Questions**

Thank you!