### Exhibit A- The IGA Proposal

(next page)

# **Cambrian School District:**

Existing Solar PV Status & Proposed Additional PV Revisions

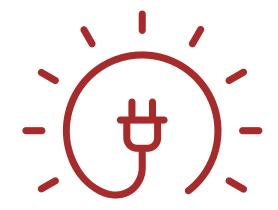


December 06, 2024



# Agenda

- Interconnection Applications and Existing
   Consumption
- Updated Utility Analysis
- Results from Detailed Inspections
- Changes to Solar PV Designs
- Projected Project Financials



# Recommended Adjustments to Interconnection Applications

The following table uses the adjusted electric utility baseline as the target annual solar PV production and compares it to the approved interconnection application productions. Upsizing solar kW-AC capacity would require a new interconnection application and should be avoided to maintain NEM-2 status. Downsizing solar PV is allowed by the utility.

Site	Reference Annual Facility Electric Consumption (kWh)	Approved Interconnection Application Production (kWh)	Recommended Changes to Interconnection Application
Bagby Elementary School	80,432	147,500	Decrease system size to offset approx. 80 MWh annually
District Office	201,029	53,840	No change
Fammatre Elementary School	106,968	110,500	No change
Ida Price Middle School	269,296	132,300	No change
Sartorette Elementary School	115,183	106,000	No change
Steindorf STEAM Magnet School	144,103	106,700	No change

Note: the following slides provide Centrica's recommendation for solar PV designs such that NEM-2 status is maintained. In certain instances, the targeted solar PV production is exceeded by increasing solar DC capacity while maintaining AC capacity. This is allowed by the utility and is intended to provide as much value as possible while maintaining NEM-2 status.

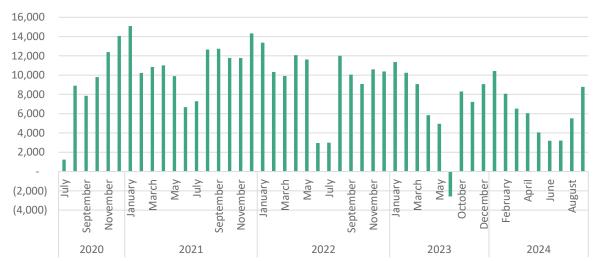
# Bagby Elementary Updated Utility Analysis & Inspection Results

# Updated Utility Analysis Results

• Utility bills have been analyzed between October 2023 and September 2024 an compared with electricity usage over the previous 3 years (graph shown to right).

# **Inspection Results**

- Various issues with power monitoring/ metering; this does not affect electric generation
- Weather station is offline
- Inverter 2A arc-fault alarm. System rebooted and alarm cleared. Inverter is still generating but further inspection of electrical connectors is needed.
- Inverter 2B not communicating to monitoring data logger. Inverter is still generating but further inspection of RS485 communication wiring is needed



### Bagby Elementary Historical Electric Consumption

# Solar PV Sizing Considerations

<b>Reference Annual Facility Electric Consumption</b>	80,432 kWh
Approved Interconnection Application Production	147,500 kWh

**Recommendation**: downsize solar to meet 80,432 kWh production.



# Bagby Elementary School Design Details Features and benefits

Install approx. **55.6 kW-DC** flush mounted solar PV arrays on roof.

# Roof condition from 2019 assessment

Rating: Fair

Condition: "The shingle roofs are in fair condition as they were installed in 2002. Some minor shingle repairs are recommended."



Overall PV System Size (kW DC): 55.6



Expected Annual Production (kWh): 79,577

# District Office Updated Utility Analysis & Inspection Results

# Updated Utility Analysis Results

• Utility bills have been analyzed between October 2023 and September 2024 an compared with electricity usage over the previous 3 years (graph shown to right).

# **Inspection Results**

- Production meter is recording less power than the system is generating. Suspect faulty CTs on meter as they were found to be phase imbalanced.
- Back-of-module temperature sensor is not reporting data on monitoring portal.
- Facility consumption meter is not reporting data during non-solar hours.

#### 25,000 20,000 15,000 10.000 5,000 July January March May March May November January March May April July January July February November October August Septembei Septembei Novembei September December Jun 2022 2020 2021 2023 2024

### District Office Historical Electric Consumption

# Solar PV Sizing Considerations

Reference Annual Facility Electric Consumption	201,029 kWh
Approved Interconnection Application Production	53 <i>,</i> 840 kWh

Recommendation: keep existing interconnection application as is.



# **District Office Design Details Features and benefits**

Install approx. 40.2 kW-DC flush mounted solar PV arrays on roof.

### Roof condition from 2019 assessment

Rating: Good Condition: "These roofs are in good condition. The DO whirly birds should be replaced with low rise vents. No other recommendations at this time."



Overall PV System Size (kW DC): 40.2

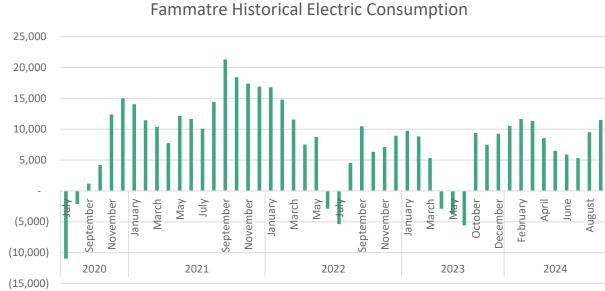


Expected Annual Production (kWh): 54,093

# Fammatre Elementary School Updated Utility Analysis & Inspection Results

# Updated Utility Analysis Results

• Utility bills have been analyzed between October 2023 and September 2024 an compared with electricity usage over the previous 3 years (graph shown to right).



# Inspection Results

- Data Acquisition System (DAS) had an insect infestation due to open knockout in enclosure. This should be sealed to ensure no future intrusion. (1)
- No issues affecting production were found.

# Solar PV Sizing Considerations

Reference Annual Facility Electric Consumption	106,968 kWh
Approved Interconnection Application Production	110,500 kWh

Recommendation: keep existing interconnection application as is.



# Fammatre Elementary School Design Details

**Features and benefits** 

Install approx. **66.0 kW-DC** flush mounted solar PV arrays on roof.

## Roof condition from 2019 assessment

Rating: Good

Condition: "The shingle roofs are in good condition. The perimeter membrane has begun to deteriorate. A restoration coating would extend its life preventing further deterioration."



Overall PV System Size (kW DC): 66.0



Expected Annual Production (kWh): 106,174

# Ida Price Middle School Updated Utility Analysis & Inspection Results

# Updated Utility Analysis Results

• Utility bills have been analyzed between October 2023 and September 2024 an compared with electricity usage over the previous 3 years (graph shown to right).

# **Inspection Results**

- Original 30 kW inverters have been replaced with 60 kW inverters in 2 locations, identifying placards should be updated to stay in compliance with approved interconnection. This does not affect production.
- Ambient weather temperature sensor is faulty. This does not affect production.

#### 60,000 50.000 40,000 30,000 20,000 10,000 ptember ecember lanuary Мау anuary March Мау January March March July November July November May ctober ebruary April June August September November September (10,000)(20,000)2020 2021 2022 2023 2024 (30,000)

# Solar PV Sizing Considerations

<b>Reference Annual Facility Electric Consumption</b>	269,296 kWh
Approved Interconnection Application Production	132,300 kWh

Recommendation: keep existing interconnection application as is.

### Ida Price Historical Electric Consumption



# Ida Price Middle School Design Details Features and benefits

Install approx. 85.8 **kW-DC** flush mounted solar PV arrays on roof.



 $\checkmark$ 

Overall PV System Size (kW DC): 85.8

Expected Annual Production (kWh): 133,861

# Sartorette Elementary School Updated Utility Analysis & Inspection Results

# Updated Utility Analysis Results

Utility bills have been analyzed between October 2023 and September 2024 an compared with electricity usage over the previous 3 years (graph shown to right).

#### 20,000 15,000 10,000 5,000 Мау November January March Мау March February April March July anuary October June November December August November January September September May Septembei (5,000)2021 2023 2020 2022 2024 (10,000)

Sartorette Historical Electric Consumption

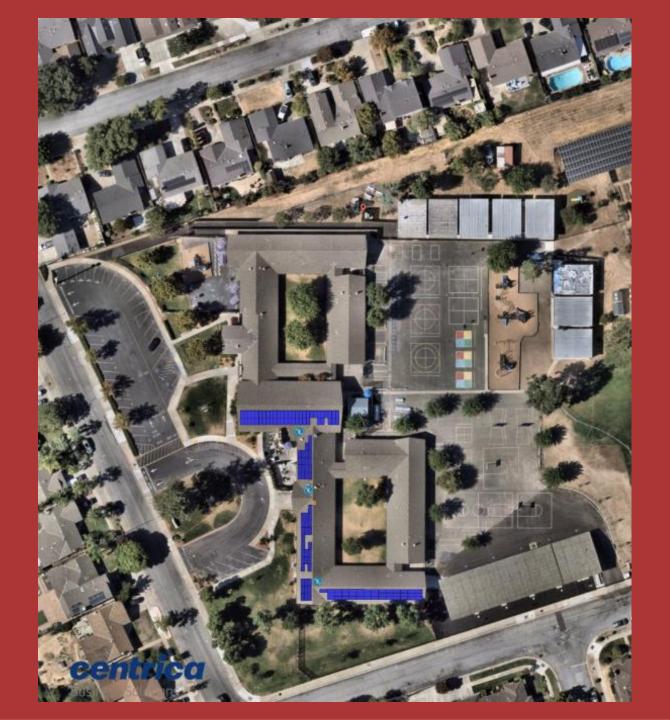
# Inspection Results

- Consumption meter is not reading proper building consumption. This was likely due to current transducers (CTs) being installed backwards. This does not affect electric production.
- Bird nests found in racking. •

# Solar PV Sizing Considerations

Reference Annual Facility Electric Consumption	115,183 kWh
Approved Interconnection Application Production	106,000 kWh

**Recommendation**: keep existing interconnection application as is.



# Sartorette Elementary School Design Details Features and benefits

Install approx. 77.0 **kW-DC** flush mounted solar PV arrays on roof.

### Roof condition from 2019 assessment

Rating: Good Condition: "The shingle roofs are in good condition. Some damaged/missing shingles are present. These areas should be repaired properly with replacement shingles."

Over

Overall PV System Size (kW DC): 77.0



Expected Annual Production (kWh): 105,482

# Steindorf STEAM Updated Utility Analysis & Inspection Results

# Updated Utility Analysis Results

• Utility bills have been analyzed between October 2023 and September 2024 an compared with electricity usage over the previous 3 years (graph shown to right).

#### 30,000 25,000 20,000 15,000 10,000 5.000 July March Мау March January July July May ecember April November January May January October February Novembei March Septembei August Septembe Septembe Novembe June 2020 2021 2022 2023 2024

### Steindorf Historical Electric Consumption

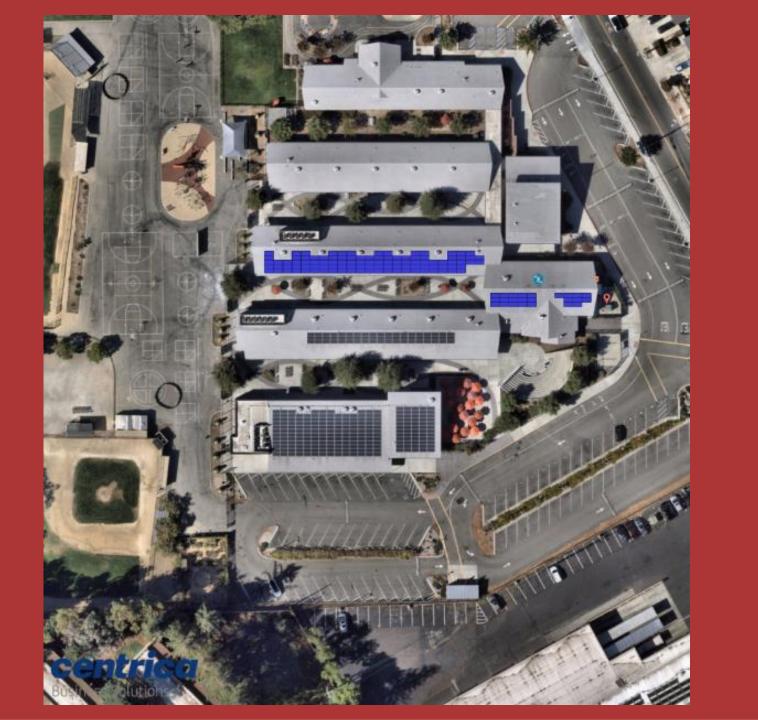
# Inspection Results

- Data Acquisition System (DAS) had an insect infestation due to open knockout in enclosure. This should be sealed to ensure no future intrusion.
- No issues affecting production were found.

# Solar PV Sizing Considerations

Reference Annual Facility Electric Consumption	144,103 kWh
Approved Interconnection Application Production	106,700 kWh

Recommendation: keep existing interconnection application as is.



# Steindorf STEAM Magnet School Design Details Features and benefits

Install approx. 68.8 **kW-DC** flush mounted solar PV arrays on roof.



 $\checkmark$ 

Overall PV System Size (kW DC): 68.8

Expected Annual Production (kWh): 107,249

# Site Breakout- Project Costs and Savings

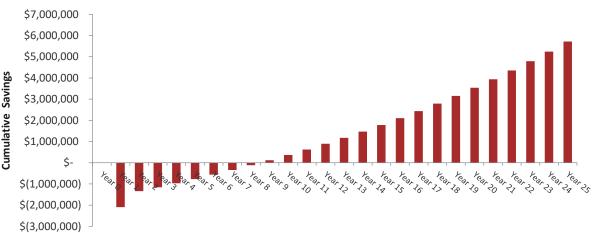
Site	Annual Cost Savings	Annual CO2 Reduction (metric tons)	Project Investment	Investment Tax Credit (IRA)	Net Project Investment	Simple Payback (yrs)
Bagby Elementary	\$26,851	38	\$353,224	\$90,072	\$263,152	9.8
District Office	\$10,488	26	\$259,720	\$66,229	\$193,492	18.4
Fammatre Elementary	\$17,818	50	\$357,872	\$91,257	\$266,614	15.0
Price Middle	\$51,447	64	\$458,734	\$116,977	\$341,757	6.6
Sartorette Elementary	\$27,617	50	\$440,524	\$112,334	\$328,190	11.9
Steindorf STEAM	\$36,248	51	\$390,598	\$99,602	\$290,995	8.0

# CAMBRIAN SCHOOL DIST



Project Financials		
Proposed Project Investment	\$2,260,671	
Year 1 Utility Cost Savings	\$170,469	
Inflation Reduction Act, DirectPay for ITC for Tax-Exempt Entities/State Governments	\$576,471	
Net Project Investment (after incentives & DirectPay)	\$1,684,200	
Cash Purchase Break Even Point	9 years	
Greenhouse Gas Emission Reduction	279 metric tons	

# Cash Purchase Cumulative Cashflow



# Next Steps

District approval of scope adjustments.

Present to Sub-committee (12/11).

Assemble board presentation for agenda item.

Vote to utilize CA Government Code 4217 at proceeding board meeting.

Public notice for GC 4217 Resolution vote (2 weeks prior to vote).

Board meeting for project approval and resolution for project funding (1/16).

# Thank you

Brooklyn Stewart Sr. Account Executive M: (916) 860-9032

E: Brooklyn.stewart@centrica.com



Exhibit B- Certificate of Substantial Completion

(next page)

### **CERTIFICATE OF SUBSTANTIAL COMPLETION**

PROJECT: (\*\*\*\*\*NAME & ADDRESS\*\*\*\*\*)

CONTRACTOR: (\*\*\*\*\*NAME & ADDRESS\*\*\*\*\*)

County Bid Number:

Contract For:

(\*\*\*\*\* NAME OF PROJECT\*\*\*\*\*)

Contract Date:

DATE OF ISSUANCE:

PROJECT OR DESIGNATED PORTION SHALL INCLUDE:

The Work performed under this Contract has been reviewed and found to be substantially complete. The Date of Substantial Completion of the Project or portion thereof designated above is hereby established as:

(\*\*\*\*\*DATE OF SUBSTANTIAL COMPLETION\*\*\*\*\*)

which is also the date of commencement of applicable warranties required by the Contract Documents, except as stated below.

### **DEFINITION OF DATE OF SUBSTANTIAL COMPLETION**

The Date of Substantial Completion of the Work or designated portion thereof is the Date certified by the Engineer when construction is sufficiently complete, in accordance with the Contract Documents, so the Owner can occupy or utilize the Work or designated portion thereof for the use for which it is intended, as expressed in the Contract Documents.

<u>A list of items to be completed or corrected, prepared by the Engineer/Architect, is attached hereto</u>. The failure to include any items on such list does not alter the responsibility of the Contractor to complete all work in accordance with the contract documents. The date of commencement of warranties for items on the attached list will be the date of final payment unless otherwise agreed to in writing.

(Company Name)

ENGINEER/ARCHITECT

By (Signature)

DATE

Printed Name

The Contractor will complete or correct the Work on the list of items attached hereto within 30 days from the above Date of Substantial Completion.

(Company Name)		
CONTRACTOR	BY (Signature)	DATE
	Printed Name	
The Owner accents the Work or (	designated portion thereof as substantially	complete and will assume

The Owner accepts the Work or designated portion thereof as substantially complete and will assume full possession thereof at 11:59 PM on (\*\*\*\*\*DATE OF ACCEPTANCE\*\*\*\*\*)

Saratoga	County
OWNER	·

BY (Signature) Joseph C. Ritchey Printed Name DATE

### **CERTIFICATE OF SUBSTANTIAL COMPLETION**

PROJECT: \_\_\_\_\_

List of Items to be Completed:

1.

### **Schedule 1- Facilities**

Bagby Elementary School: 1840 Harris Ave, San Jose, CA 95124
District Office: 4115 Jacksol Dr, San Jose, CA 95124
Fammatre Elementary School: 2800 New Jersey Ave, San Jose, CA 95124
Ida Price Middle School: 2650 New Jersey Ave, San Jose, CA 95124
Sartorette Elementary School: 3850 Woodford Dr, San Jose, CA 95124
Steindorf STEAM Elementary: 3001 Ross Ave, San Jose, CA 95124

### **Schedule 2- Scope of Work**

### ECM#1: Solar PV Installation

### **Facilities Affected**

- Bagby Elementary School
- District Office
- Fammatre Elementary School
- Ida Price Middle School
- Sartorette Elementary School
- Steindorf STEAM Elementary School

### Summary

Centrica Business Solutions Services has determined that the sites listed above are viable for solar PV expansion/ addition. The system was sized to achieve the maximum feasible production based on the site's electrical and space constraints.

The Solar PV systems will go through a detailed design process during implementation to determine the final product specifications and system sizing of the solar panels and inverters. The Solar PV systems will have the following characteristics:

- Tier 1 solar panels and inverters
- Solar production monitoring software
- System AC sizing (kW-AC) per Interconnection Agreement with utility. Adjustments to existing applications as necessary
- Change current rate structure to NEM 2.0 rate structure

The system sizing is as follows:

Site	PV Size/Type (kW DC)	Expected Annual Production
Bagby Elementary School	55.6 kW/	79,577 kWh
Bagby Elementary School	Rooftop	
District Office	40.2 kW/	54,093 kWh
District Office	Rooftop	
Formenter Flowenter School	66.0 kW/	106,174 kWh
Fammatre Elementary School	Rooftop	
Ida Price Middle School	85.8 kW/	133,861 kWh
Ida Price Middle School	Rooftop	
Soutometto Elementomy Solo el	77.0 kW/	105,482 kWh
Sartorette Elementary School	Rooftop	

### Scope of Work Details

- Design
  - A full set of California licensed structural and electrical stamped drawings for all solar PV Systems listed above, as required by the Authority Having Jurisdiction (AHJ).
- Implementation Services
  - Pre-construction services
    - Product Submittals
    - Pre-construction conference with CVMVCD representatives
    - Site Mobilization
  - Procurement of all materials
  - Coordination with the DSA for permits
  - Completion of all required field inspections and documentation.
  - All utility interconnection application adjustments and coordination
  - Project installation as stated in Schedule 3
  - Installation of cloud based solar PV monitoring solution
  - Project Closeout:
    - Operations and Maintenance manuals
    - Warranty Documents
    - Customer Training
- Electrical
  - Compliance with Pacific Gas & Electric (PG&E) Interconnection Requirement Rules, Regulations 21, and UL 1741-SA compliant
  - Install positive attachment roof mounting system with associated roof protection and required seismic attachments
  - Install module on the module racks; run equipment ground wiring; wire DC strings to Inverters
  - Install Balance of System (BOS) components including AC combiner boxes (as required), disconnect switches (as required), and all wiring between electrical components
- Commissioning
  - Following installation, the system components will be tested according to manufacturer's recommendations to confirm proper functionality
  - Inspections by Utility Service Provider or DSA will be coordinated by Centrica Business Solutions Services
- Warranty service and labor within one year of substantial completion of this FIM.

- Assumptions
  - a. This measure has been priced with prevailing wage rates.
  - b. Assumes no additional variance, historic district, special use or any other Special Permits will be required except for those defined herein. Street closure permits and police details are not included, and if needed will be presented as a change order request
  - c. All work will be performed during 1<sup>st</sup> shift Monday through Friday
  - d. Existing roof surfaces are in adequate condition and any repairs shall be performed by others
  - e. Maintenance of proposed and existing solar PV systems shall be executed via a separate contract
- Exemptions and Exclusions
  - Any existing electrical infrastructure upgrades and utility upgrades are excluded
  - Impacts to the Work due to Concealed Conditions, or correction of such Concealed Conditions are excluded, including but not limited to:
    - a. De-watering
    - b. Removal of unsuitable soils
  - Correction, testing, or remediation of mold, fungus, mildew, or organic pathogens are excluded
  - Removing or repairing rot or insect infestation is excluded
  - Removal of, disposal of, or work involving any materials containing asbestos or any other Hazardous Conditions is excluded
  - Moving or relocation any personal property belong to any Personal that in not Centrica or Centrica subcontractor or supplier is excluded
  - Work at the site due to ADA requirements by DSA are excluded
  - Hiring of Health Safety Professional to monitor and track COVID-19
  - Performance guarantee for solar PV production is excluded
  - Operation and Maintenance is excluded
  - Temporary power during shutdowns for interconnection work is excluded
  - Painting of any equipment or conduit is excluded
  - Buy American, or American Made products are excluded

### Schedule 3- ECM Work Schedule

(next page)

12/13	3/2024			Cambriar	n School District Preliminary Solar Project Schedule
)	Task Name	Duration	Start	Finish	Half 1, 2025 J F M A M J J A S O N D J F M A M J
1	Cambrian School District	351 days	Fri 1/31/25	Fri 6/5/26	
2	Contract Signed	0 days	Fri 1/31/25	Fri 1/31/25	1/31
3	Internal Kick Off	1 wk	Fri 1/31/25	Thu 2/6/25	<u> </u>
4	Customer Kick Off Meeting	0 days	Fri 2/7/25	Fri 2/7/25	a 2/7
5	Site Investigation	1 wk	Mon 2/10/25	Fri 2/14/25	<b>Š</b>
6	Design & Engineering	70 days	Mon 2/17/25	Fri 5/23/25	
7	30% Design	2 wks	Mon 2/17/25	Fri 2/28/25	
8	30% Design Review by Client	1 wk	Mon 3/3/25	Fri 3/7/25	i i i i i i i i i i i i i i i i i i i
9	90% Design	8 wks	Mon 3/10/25	Fri 5/2/25	
10	90% Design Approval by Client	1 wk	Mon 5/5/25	Fri 5/9/25	
11	Finalize Plans to Permit Ready	2 wks	Mon 5/12/25	Fri 5/23/25	
12	Permitting	120 days	Mon 5/26/25	Fri 11/7/25	
13	Prepare and Submit DSA Applications	2 wks	Mon 5/26/25	Fri 6/6/25	
14	DSA Review & Add to Engineering Queu	e 2 wks	Mon 6/9/25	Fri 6/20/25	
15	DSA Initial Review	12 wks	Mon 6/23/25	Fri 9/12/25	
16	Respond to comments if required	3 wks	Mon 9/15/25	Fri 10/3/25	
17	Final DSA Review/Approval	2 wks	Mon 10/6/25	Fri 10/17/25	
18	DSA Permit Issued	3 wks	Mon 10/20/25	Fri 11/7/25	
19	Procurement	24 wks	Mon 6/9/25	Fri 11/21/25	
20	Construction	90 days	Mon 11/24/25	5 Fri 3/27/26	
21	Construction	16 wks	Mon 11/24/25	Fri 3/13/26	*
22	DSA Final Inspections/Approvals	2 wks	Mon 3/16/26	Fri 3/27/26	<b>L</b>
23	PV Project Close Out	30 days	Fri 3/27/26	Fri 5/8/26	r1
24	Request PTO from Utility	0 days	Fri 3/27/26	Fri 3/27/26	⋧ 3/27
25	PTO Inspections	1 wk	Mon 5/4/26	Fri 5/8/26	The second s
26	Close Out	20 days	Mon 5/11/26	Fri 6/5/26	
27	Commissioning	4 wks	Mon 5/11/26	Fri 6/5/26	<b>*</b>
28	Project Handoff	0 days	Fri 6/5/26	Fri 6/5/26	•
29					
30					
	Task		Project Sum	mary 📔	Manual Task Start-only C Deadline
	Split		Inactive Tas	k	Duration-only Finish-only Progress
	Milestone	•	Inactive Mile	estone 🔷	Manual Summary Rollup External Tasks Manual Progress
	Summary		Inactive Sun	nmary 🛛	Manual Summary External Milestone

Task Description	Cost
Mobilization	\$77,616
Design, Submittals, Permitting	\$388,297
Material Order/ Delivery	\$445,195
Installation	\$1,304,351
Closeout	\$45,212
Total Cost	\$2,260,671

### Schedule 4- ECM Work Schedule of Values

Schedule 5-Solar PV Helioscope Models

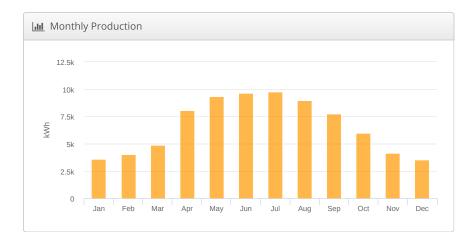
# (RT BVT550) CSD BAGBY 11.15.24 Cambrian SD Bagby, 1840 Harris Ave, San Jose, CA

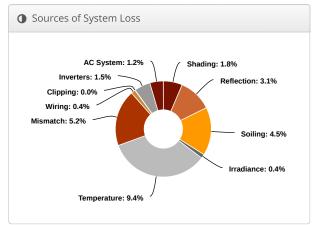
95124

<b>ℯ</b> Report				
Project Name	Cambrian SD Bagby			
Project Address	1840 Harris Ave, San Jose, CA 95124			
Prepared By	Sneha Sriwastava sneha.sriwastava@centrica.com			

III System Metrics					
Design	(RT BVT550) CSD BAGBY 11.15.24				
Module DC Nameplate	55.6 kW				
Inverter AC Nameplate	50.0 kW Load Ratio: 1.11				
Annual Production	79.58 MWh				
Performance Ratio	75.4%				
kWh/kWp	1,432.5				
Weather Dataset	TMY, SAN JOSE INTL AP, NSRDB (tmy3, II)				
Simulator Version	d4d46e467c-aa12056117- 0f16a8b762-98be4a3938				







Annual Productior	ı Report	produced by		
-------------------	----------	-------------	--	--

	Description	Output	% Delta		
	Annual Global Horizontal Irradiance	1,810.2			
	POA Irradiance	1,898.8	4.9		
Irradiance	Shaded Irradiance	1,865.2	-1.8		
(kWh/m²)	Irradiance after Reflection	1,807.2	-3.1		
	Irradiance after Soiling	1,726.2	-4.5		
	Total Collector Irradiance	1,726.9	0.0		
	Nameplate	96,061.0			
	Output at Irradiance Levels	95,707.6	-0.4		
	Output at Cell Temperature Derate	86,708.0	-9.4		
Energy	Output After Mismatch	82,163.8	-5.2		
(kWh)	Optimal DC Output	81,832.1	-0.4		
	Constrained DC Output	81,809.6	0.0		
	Inverter Output	80,582.5	-1.5		
	Energy to Grid	79,577.6	-1.2		
Temperature N	<b>Netrics</b>				
	Avg. Operating Ambient Temp		17.5		
Avg. Operating Cell Temp					
Simulation Me	trics				
	Op	erating Hours	43		
Solved Hours					

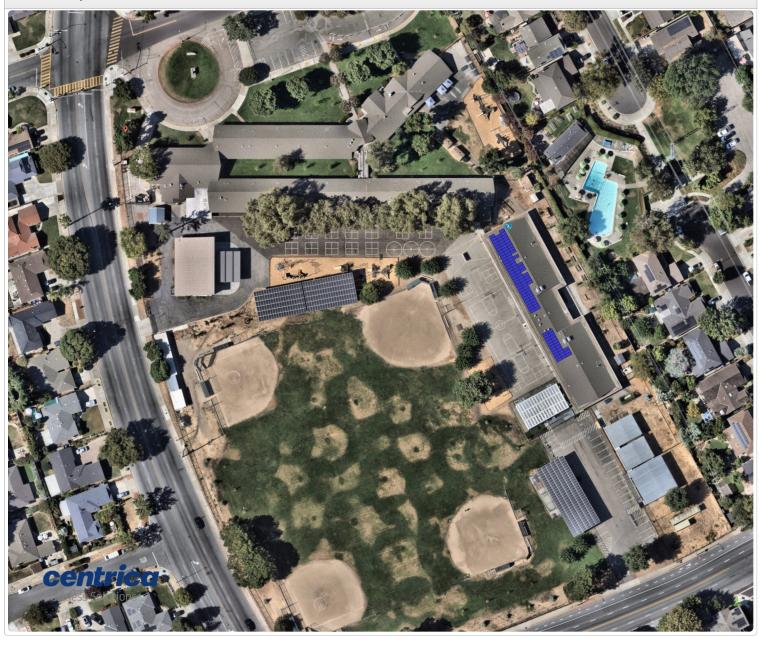
Description	CBS	CBS STANDARD										
Weather Dataset	TMY, SAN JOSE INTL AP, NSRDB (tmy3, II)											
Solar Angle Location	Met	eo Lat	:/Lng									
Transposition Model	Pere	z Mo	del									
Temperature Model	Sand	dia Mo	odel									
	Rac	к Туре	9	i	э	b			Tempe	erature	Delta	
	Fixe	d Tilt		•	3.56	-0.0	75		3°C			
Temperature Model Parameters	Flus	h Mo	unt		2.81	-0.04	455		0°C			
	East	East-West			3.56	-0.0	75		3°C			
	Carport				3.56	-0.0	75		3°C			
Soiling (%)	J	F	М	A	М	J	J	A	S	0	N	D
	3	3	3	3	6	6	6	6	3	3	3	3
Irradiation Variance	5%											
Cell Temperature Spread	4° C											
Module Binning Range	-2.59	% to 2	.5%									
AC System Derate	2.00	%										
<b>T</b>	Max	imum	n Angle	•			Backtracking					
Trackers	60°						Enabled					
Module	Module					Uplo By	aded Characterization		ition			
Characterizations	BVM7612M-550-H-HC-BF- DG (1000V) (2023) (Boviet Solar)					Heli			: Sheet acterization, PAN			
	Device					Uploaded By Character		cteriza	ation			
Component Characterizations		SCA2 20) (Cl		DO/I	JS-208		HelioScope		Spec Sheet			
					JS-480 System	s)	He	HelioScope Spec Sh		Sheet		

🖨 Components					
Component	Name	Count			
Inverters	CPS SCA50KTL-DO/US-480 (Jul21) (Chint Power Systems)	1 (50.0 kW)			
AC Panels	1 input AC Panel	1			
AC Home Runs	3/0 AWG (Aluminum)	1 (72.4 ft)			
AC Home Runs	250 MCM (Aluminum)	1 (2,818.6 ft)			
Strings	10 AWG (Copper)	7 (1,099.3 ft)			
Module	Boviet Solar, BVM7612M-550- H-HC-BF-DG (1000V) (2023) (550W)	101 (55.6 kW)			

🚠 Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	-	12-18	Along Racking
Wiring Zone 2	-	12-18	Along Racking

Field Se	gments								
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 1	Flush Mount	Portrait (Vertical)	16.121374°	241.44958°	0.1 ft	1x1	101	101	55.6 kW
Field Segment 2	Flush Mount	Portrait (Vertical)	22.62°	179.85449°	0.1 ft	1x1			0

Oetailed Layout2

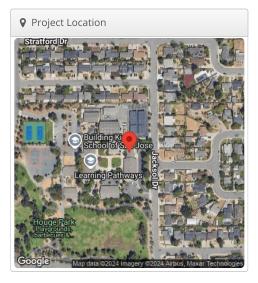


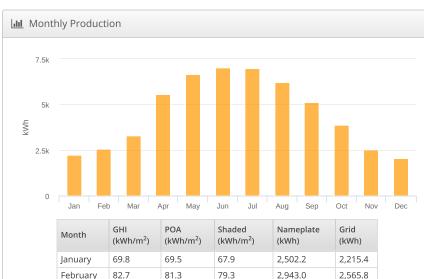
# (RT BVT550) CSD DISTRICT OFFICE (11.4.24) Cambrian SD District Office, 4115

Jacksol Dr Building 2, San Jose, CA 95124

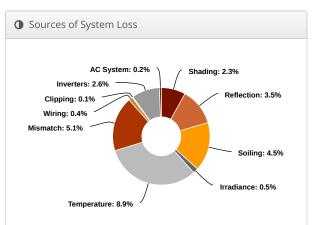
📌 Report	
Project Name	Cambrian SD District Office
Project Address	4115 Jacksol Dr Building 2, San Jose, CA 95124
Prepared By	Sneha Sriwastava sneha.sriwastava@centrica.com

<b>III</b> System Metrics					
Design	(RT BVT550) CSD DISTRICT OFFICE (11.4.24)				
Module DC Nameplate	40.2 kW				
Inverter AC Nameplate	36.0 kW Load Ratio: 1.12				
Annual Production	54.09 MWh				
Performance Ratio	75.1%				
kWh/kWp	1,347.3				
Weather Dataset	TMY, SAN JOSE INTL AP, NSRDB (tmy3, II)				
Simulator Version	947d57432b-643e1b838d- 5eadff0575-e62abbc635				





Month	GHI (kWh/m²)	POA (kWh/m²)	Shaded (kWh/m <sup>2</sup> )	Nameplate (kWh)	Grid (kWh)
January	69.8	69.5	67.9	2,502.2	2,215.4
February	82.7	81.3	79.3	2,943.0	2,565.8
March	107.0	105.1	102.1	3,827.2	3,284.2
April	182.0	179.5	175.1	6,607.1	5,551.9
May	226.6	224.4	219.6	8,075.8	6,668.4
June	243.1	237.9	233.2	8,575.0	7,026.9
July	239.4	237.9	233.0	8,580.0	6,993.3
August	214.9	213.5	208.9	7,669.0	6,204.4
September	170.2	170.4	166.3	6,267.0	5,135.2
October	126.1	125.6	123.1	4,602.0	3,868.4
November	81.0	80.5	78.7	2,896.7	2,513.6
December	67.2	67.5	65.3	2,393.5	2,066.2



Annual Production	Report	produced	by Sneha	
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	Description	Output	% Delta
	Annual Global Horizontal Irradiance	1,810.2	
	POA Irradiance	1,793.1	-0.99
Irradiance	Shaded Irradiance	1,752.6	-2.39
(kWh/m <sup>2</sup> )	Irradiance after Reflection	1,692.1	-3.59
	Irradiance after Soiling	1,615.2	-4.59
	Total Collector Irradiance	1,615.3	0.09
Energy	Nameplate	64,938.5	
	Output at Irradiance Levels	64,631.4	-0.59
	Output at Cell Temperature Derate	58,885.2	-8.9
	Output After Mismatch	55,885.8	-5.19
(kWh)	Optimal DC Output	55,680.4	-0.4
	Constrained DC Output	55,637.4	-0.1
	Inverter Output	54,190.8	-2.6
	Energy to Grid	54,093.8	-0.29
Temperature l	Aetrics		
	Avg. Operating Ambient Temp		17.5 °
	Avg. Operating Cell Temp		35.9 °
Simulation Me	trics		
	Opt	erating Hours	434
		Solved Hours	434

Condition Set												
Description	CBS	stand	lard									
Weather Dataset	TMY	, SAN	JOSE I	NTL /	AP, NSF	RDB (t	my3,	II)				
Solar Angle Location	Mete	eo Lat	:/Lng									
Transposition Model	Pere	z Mo	del									
Temperature Model	Sand	lia Mo	odel									
	Rack	к Туре	2	a		b			Tempe	erature Delta		
Temperature Model	Fixe	d Tilt		-3	3.56	-0.0	75	3°C				
Parameters	Flus	h Mo	unt	-2	2.81	-0.04	455					
	East-West			-	3.56	-0.075		_	3°C			
	Carport				3.56		-0.075		3°C			
Soiling (%)	J	F	M	A	M	J	J	A		0	N	D
	3	3	3	3	6	6	6	6	3	3	3	3
Irradiation Variance	5%	5%										
Cell Temperature Spread	4° C	4° C										
Module Binning Range	-2.5%	-2.5% to 2.5%										
AC System Derate	2.00	%										
Trackers	Max	imum	Angle				E	Back	tracki	ng		
Hackers	60°						Enabled					
Module	Module					Uplo By	oloaded / Characterizati			ation		
Characterizations	BVM7612M-550-H-HC-BF- DG (1000V) (2023) (Boviet Solar)								ec Sheet aracterization, PAN			
Component	Devi	ice				Uploaded By		ed	Characterization			
Characterizations		SCA3 3) (CI	6KTL-E PS)	0/0	S-480		Hel	HelioScope Spec Sheet			Sheet	

🖨 Compor	nents	
Component	Name	Count
Inverters	CPS SCA36KTL-DO/US-480 (2023) (CPS)	1 (36.0 kW)
AC Panels	1 input AC Panel	1
AC Home Runs	3/0 AWG (Aluminum)	1 (34.6 ft)
AC Home Runs	250 MCM (Aluminum)	1 (572.3 ft)
Strings	10 AWG (Copper)	5 (647.1 ft)
Module	Boviet Solar, BVM7612M-550-H- HC-BF-DG (1000V) (2023) (550W)	73 (40.2 kW)

Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	-	10-18	Along Racking

Field Se	gments								
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 1	Flush Mount	Portrait (Vertical)	16.332853°	270°	0.1 ft	1x1	73	73	40.2 kW





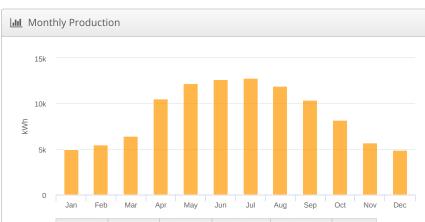
## (RT BVM550) CSD FAMMATRE (11.13.24) Cambrian SD Fammatre School, 2800

New Jersey Ave, San Jose, CA 95124

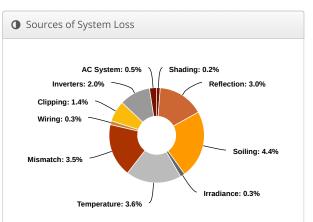
<b>⊮</b> Report					
Project Name	Cambrian SD Fammatre School				
Project Address	2800 New Jersey Ave, San Jose, CA 95124				
Prepared By	Sneha Sriwastava sneha.sriwastava@centrica.com				

System Metrics					
Design	(RT BVM550) CSD FAMMATRE (11.13.24)				
Module DC Nameplate	66.0 kW				
Inverter AC Nameplate	50.0 kW Load Ratio: 1.32				
Annual Production	106.2 MWh				
Performance Ratio	82.4%				
kWh/kWp	1,608.7				
Weather Dataset	TMY, SAN JOSE INTL AP, NSRDB (tmy3, II)				
Simulator Version	2ca4d0df47-1747616d07- 3bffb33f9a-fb35cdaf62				





Month	GHI (kWh/m <sup>2</sup> )	POA (kWh/m <sup>2</sup> )	Shaded (kWh/m <sup>2</sup> )	Nameplate (kWh)	Grid (kWh)
January	69.8	86.8	86.5	5,315.6	4,956.7
February	82.7	96.6	96.2	5,937.4	5,501.9
March	107.0	115.1	114.8	7,101.7	6,416.2
April	182.0	191.5	191.1	11,899.8	10,516.5
May	226.6	230.4	230.0	13,916.5	12,195.5
June	243.1	240.3	239.9	14,508.9	12,642.1
July	239.4	242.2	241.8	14,648.2	12,795.0
August	214.9	225.2	224.9	13,612.8	11,924.4
September	170.2	188.7	188.3	11,739.6	10,402.3
October	126.1	147.6	147.3	9,128.5	8,193.6
November	81.0	101.3	100.8	6,203.1	5,712.5
December	67.2	87.5	86.9	5,328.0	4,917.5



Annual Production Report produced by	Sneha Sriwastava
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	Description	Output	% Delta			
	Annual Global Horizontal Irradiance	1,810.2				
	POA Irradiance	1,953.1	7.9			
Irradiance	Shaded Irradiance	1,948.6	-0.2			
(kWh/m²)	Irradiance after Reflection	1,889.7	-3.0			
	Irradiance after Soiling	1,805.6	-4.4			
	Total Collector Irradiance	1,805.6	0.0			
	Nameplate	119,340.0				
Energy	Output at Irradiance Levels	118,979.7	-0.3			
	Output at Cell Temperature Derate	114,664.7	-3.6			
	Output After Mismatch	110,662.1	-3.5			
(kWh)	Optimal DC Output	110,385.0	-0.3			
	Constrained DC Output	108,874.9	-1.4			
	Inverter Output	106,667.3	-2.0			
	Energy to Grid	106,174.3	-0.5			
Temperature l	Metrics					
	Avg. Operating Ambient Temp		17.5			
Avg. Operating Cell Temp						
Simulation Me	trics					
Operating Hours						
		Solved Hours	43			

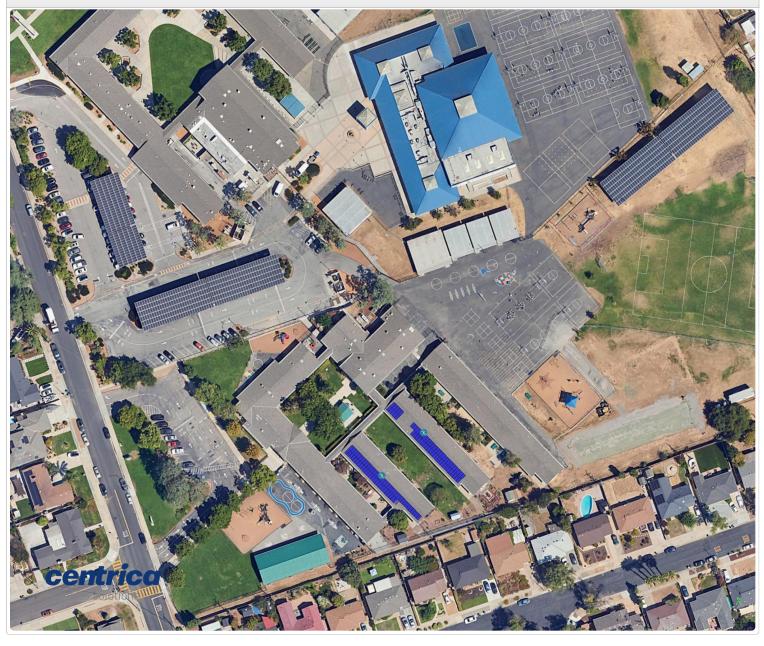
Condition Set													
Description	Cond	Condition Set 1											
' Weather Dataset	TMY	TMY, SAN JOSE INTL AP, NSRDB (tmy3, II)											
Solar Angle Location		eo Lat	-		. ,			.,,					
Transposition Model		z Mo	0										
Temperature Model		lia Mo											
		с Туре	•	a		b					rature	Delta	
Temperature Model		d Tilt h Mo			8.56 2.81	-0.0	-		3°0				
Parameters		-Wes		_	3.56	-0.02			3°0	-			
	Carp			-	8.56	-0.0	-		3°0	-			
C	J	F	М	А	М	J	J	A	۱.	S	0	N	D
Soiling (%)	3	3	3	3	6	6	6	e	5	3	3	3	3
Irradiation Variance	5%												
Cell Temperature Spread	4° C												
Module Binning Range	-2.5%	-2.5% to 2.5%											
AC System Derate	2.50	%											
	Max	imum	Angle					Bacl	ktra	cking	g		
Trackers	60°						Enabled						
Module	Mod	Module B					ade	ed	Characterization				
Characterizations	BVM7612M-550-H-HC-BF- DG (1500V) (2023) (Boviet He Solar)					Heli	oSc	Spec Sheet Characterization, PAN			PAN		
Component	Devi	ce					U By	ploac /	led		Chara	cteriza	ation
Characterizations		SCA2 nt Po		DO-R	/US-48	0	н	elioS	сор	e	Spec S	Sheet	

🖨 Components				
Component	Name	Count		
Inverters	CPS SCA25KTL-DO-R/US-480 (Chint Power)	2 (50.0 kW)		
Transformer	Primary Side: 208Y/120V, Secondary: 480Y/277V	2		
AC Panels	1 input AC Panel	2		
AC Home Runs	2 AWG (Aluminum)	2 (1,801.7 ft)		
Strings	10 AWG (Copper)	8 (573.6 ft)		
Module	Boviet Solar, BVM7612M-550- H-HC-BF-DG (1500V) (2023) (550W)	120 (66.0 kW)		

👪 Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	-	14-18	Along Racking
Wiring Zone 2	-	14-18	Along Racking

Field S	egments			

Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Carport	Landscape (Horizontal)	7°	249.44395°	0.1 ft	1x1			0
Carport	Landscape (Horizontal)	7°	248.04079°	0.1 ft	1x1			0
Carport	Landscape (Horizontal)	7°	225.80693°	0.1 ft	1x1			0
Carport	Landscape (Horizontal)	7°	225.80693°	0.1 ft	1x1			0
Carport	Portrait (Vertical)	18°	225.80693°	0.1 ft	1x1	60	60	33.0 kW
Carport	Portrait (Vertical)	18°	225.80693°	0.1 ft	1x1	60	60	33.0 kW
	Carport Carport Carport Carport Carport	Carport(Horizontal)CarportLandscape (Horizontal)CarportLandscape (Horizontal)CarportLandscape (Horizontal)CarportPortrait (Vertical)	CarportLandscape (Horizontal)7°CarportLandscape (Horizontal)7°CarportLandscape (Horizontal)7°CarportLandscape (Horizontal)7°CarportLandscape (Horizontal)18°	CarportLandscape (Horizontal)7°249.44395°CarportLandscape (Horizontal)7°248.04079°CarportLandscape (Horizontal)7°225.80693°CarportLandscape (Horizontal)7°225.80693°CarportPortrait (Vertical)18°225.80693°	RackingOrientationTilAzimuthSpacingCarportLandscape (Horizontal)7°249.44395°0.1 ftCarportLandscape (Horizontal)7°248.04079°0.1 ftCarportLandscape (Horizontal)7°225.80693°0.1 ftCarportLandscape (Horizontal)7°225.80693°0.1 ftCarportPortrait (Vertical)18°225.80693°0.1 ft	RackingOrientationTiltAzimuthSpacingSizeCarportLandscape (Horizontal)7°249.44395°0.1 ft1x1CarportLandscape (Horizontal)7°248.04079°0.1 ft1x1CarportLandscape (Horizontal)7°225.80693°0.1 ft1x1CarportLandscape (Horizontal)7°225.80693°0.1 ft1x1CarportPortrait (Vertical)18°225.80693°0.1 ft1x1	RackingOrientationTilAzimuthspacingSizeFramesCarportLandscape (Horizontal)7°249.44395°0.1 ft1x11x1CarportLandscape (Horizontal)7°248.04079°0.1 ft1x11x1CarportLandscape (Horizontal)7°225.80693°0.1 ft1x11x1CarportLandscape (Horizontal)7°225.80693°0.1 ft1x11x1CarportPortrait (Vertical)18°225.80693°0.1 ft1x160	RackingOrientationTilAzimuthspacingSizeFramesModulesCarportLandscape (Horizontal)7°249.44395°0.1 ft1x1CarportLandscape (Horizontal)7°248.04079°0.1 ft1x1 </td



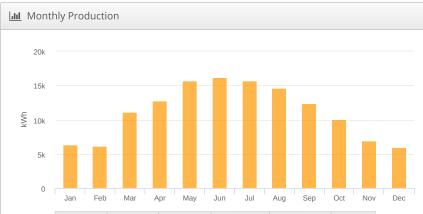
## (RT BVM550) CSD IDA PRICE (11.15.24) Cambrian SD Ida Price, 2650 New Jersey

Ave, San Jose, CA 95124

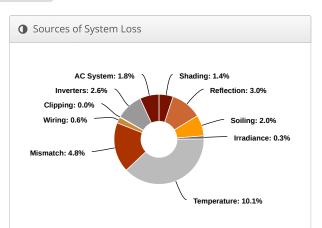
<b>⊮</b> Report					
Project Name	Cambrian SD Ida Price				
Project Address	2650 New Jersey Ave, San Jose, CA 95124				
Prepared By	Sneha Sriwastava sneha.sriwastava@centrica.com				

<b>III</b> System Metrics					
Design	(RT BVM550) CSD IDA PRICE (11.15.24)				
Module DC Nameplate	85.8 kW				
Inverter AC Nameplate	72.0 kW Load Ratio: 1.19				
Annual Production	133.9 MWh				
Performance Ratio	76.1%				
kWh/kWp	1,560.2				
Weather Dataset	TMY, 10km grid (37.25,-121.95), NREL (prospector)				
Simulator Version	d4d46e467c-aa12056117- 0f16a8b762-98be4a3938				





Month	GHI (kWh/m²)	POA (kWh/m²)	Shaded (kWh/m²)	Nameplate (kWh)	Grid (kWh)
January	74.1	91.8	90.3	7,267.6	6,296.1
February	78.9	89.8	88.2	7,145.7	6,127.0
March	150.5	165.5	162.9	13,278.6	11,097.2
April	182.9	191.4	189.0	15,469.7	12,817.1
May	236.6	241.7	238.8	19,592.7	15,708.1
June	252.0	251.1	248.7	20,428.3	16,213.4
July	247.1	248.0	245.3	20,148.3	15,737.8
August	222.9	232.8	229.7	18,864.3	14,674.5
September	177.6	194.9	192.3	15,759.3	12,348.0
October	131.7	152.8	150.3	12,240.6	10,012.5
November	83.3	102.7	100.7	8,122.5	6,901.4
December	68.7	86.3	85.0	6,833.4	5,928.2



A	Annual	Proc	luctior	ı Report	produced			
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	Description	Output	% Delta
	Annual Global Horizontal Irradiance	1,906.2	
	POA Irradiance	2,049.0	7.5
Irradiance	Shaded Irradiance	2,021.2	-1.4
(kWh/m²)	Irradiance after Reflection	1,961.2	-3.0
	Irradiance after Soiling	1,922.0	-2.0
	Total Collector Irradiance	1,922.1	0.0
	Nameplate	165,151.1	
	Output at Irradiance Levels	164,667.1	-0.3
	Output at Cell Temperature Derate	147,963.7	-10.1
Energy	Output After Mismatch	140,888.4	-4.8
(kWh)	Optimal DC Output	140,068.3	-0.6
	Constrained DC Output	139,999.5	0.0
	Inverter Output	136,357.9	-2.6
	Energy to Grid	133,861.4	-1.8
Temperature l	Metrics		
	Avg. Operating Ambient Temp		15.9
	Avg. Operating Cell Temp		36.8
Simulation Me	trics		
	0	perating Hours	46
		Solved Hours	46

Condition Set												
Description	Cond	Condition Set 1										
Weather Dataset	TMY,	10kr	n grid	(37.2	5,-121.	95), N	REL (J	oros	specto	r)		
Solar Angle Location	Mete	eo Lat	/Lng									
Transposition Model	Pere	z Moo	del									
Temperature Model	Sanc	lia Mo	odel									
	Rack	с Туре		a		b			Tempe	erature	Delta	
Tanana watu wa Maralal	Fixe	d Tilt		-:	3.56	-0.0	75		3°C			
Temperature Model Parameters	Flus	h Mo	unt	-:	2.81	-0.04	455		0°C			
	East	-West	t	-:	3.56	-0.0	75		3°C			
	Carp	oort		-:	3.56	-0.0	75		3°C			
Soiling (%)	J	F	М	А	М	J	J	A	S	0	Ν	D
	2	2	2	2	2	2	2	2	2	2	2	2
Irradiation Variance	5%											
Cell Temperature Spread	4° C											
Module Binning Range	-2.5%	6 to 2	.5%									
AC System Derate	0.50	%										
Trackers	Max	imum	Angle				Backtracking					
Trackers	60°						Enabled					
	Mod	ule				Uploaded By		Characterization				
Module Characterizations	Q.PEAK DUO XL- G11.3/BFG 585 (Hanwha O Cells)				Heli	HelioScone '		· ·	ec Sheet aracterization, PAN			
		1500	M-550 V) (202			Heli	oScop	be		Sheet acteriz	ation,	PAN
	Devi	ce					Upl By	oad	ed	Characterization		
Component Characterizations			0KTL-I nint Pc		IS-480 System	s)	HelioScope		cope	Spec Sheet		
		SCA3 3) (CF	6KTL-I °S)	00/L	S-480		HelioScope Spec		Spec	Spec Sheet		

🖨 Compoi	nents	
Component	Name	Count
Inverters	CPS SCA36KTL-DO/US-480 (2023) (CPS)	2 (72.0 kW)
AC Panels	1 input AC Panel	2
AC Home Runs	12 AWG (Copper)	1 (142.3 ft)
AC Home Runs	10 AWG (Copper)	1 (460.5 ft)
AC Home Runs	3/0 AWG (Aluminum)	2 (57.5 ft)
Strings	10 AWG (Copper)	9 (1,393.8 ft)
Module	Boviet Solar, BVM7612M-550- H-HC-BF-DG (1500V) (2023) (550W)	156 (85.8 kW)

H Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	-	-	Along Racking
Wiring Zone 2	-	10-18	Along Racking
Wiring Zone 3	-	10-18	Along Racking

III Field Segments									
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 1	Flush Mount	Landscape (Horizontal)	16°	226.0627°	0.1 ft	1x1	42	42	23.1 kW
Field Segment 2	Flush Mount	Landscape (Horizontal)	16°	226.0488°	0.1 ft	1x1	42	42	23.1 kW
Field Segment 3	Carport	Portrait (Vertical)	7°	250.24135°	0.1 ft	1x1			0
Field Segment 2 (copy)	Flush Mount	Landscape (Horizontal)	16°	226.0488°	0.1 ft	1x2	36	72	39.6 kW



## (RT BVT550) CAMBRIAN SD SARTORETTE(11.4.24) Cambrian SD Sartoretete,

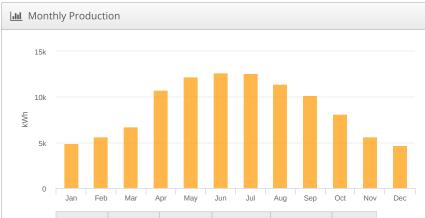
3850 Woodford Dr, San Jose, CA 95124

🖋 Report	
Project Name	Cambrian SD Sartoretete
Project Address	3850 Woodford Dr, San Jose, CA 95124
Prepared By	Sneha Sriwastava sneha.sriwastava@centrica.com

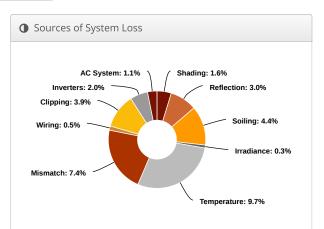
LIII System Metrics						
Design	(RT BVT550) CAMBRIAN SD SARTORETTE(11.4.24)					
Module DC Nameplate	77.0 kW					
Inverter AC Nameplate	75.0 kW Load Ratio: 1.03					
Annual Production	105.5 MWh					
Performance Ratio	70.6%					
kWh/kWp	1,369.9					
Weather Dataset	TMY, SAN JOSE INTL AP, NSRDB (tmy3, II)					
Simulator Version	947d57432b-643e1b838d- 5eadff0575-e62abbc635					







Month	GHI (kWh/m²)	POA (kWh/m²)	Shaded (kWh/m²)	Nameplate (kWh)	Grid (kWh)
January	69.8	87.2	83.9	6,026.7	4,892.1
February	82.7	97.4	95.2	6,860.1	5,620.6
March	107.0	114.9	113.3	8,183.4	6,719.9
April	182.0	190.2	188.0	13,644.9	10,747.8
May	226.6	227.7	225.2	15,875.3	12,251.7
June	243.1	237.6	235.2	16,593.2	12,684.2
July	239.4	238.6	236.1	16,661.9	12,583.3
August	214.9	222.8	220.4	15,546.8	11,421.9
September	170.2	187.1	185.1	13,458.3	10,139.0
October	126.1	147.5	145.2	10,515.0	8,123.6
November	81.0	102.2	98.9	7,116.4	5,614.2
December	67.2	88.0	83.5	5,985.4	4,683.9



Annual Productior	ı Report	produced by		
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	Description	Output	% Delta				
	Annual Global Horizontal Irradiance	1,810.2					
	POA Irradiance	1,941.3	7.2				
Irradiance	Shaded Irradiance	1,909.9	-1.6				
(kWh/m²)	Irradiance after Reflection	1,851.9	-3.0				
	Irradiance after Soiling	1,769.6	-4.4				
	Total Collector Irradiance	1,769.7	0.0				
	Nameplate	136,467.5					
	Output at Irradiance Levels	136,003.7	-0.3				
	Output at Cell Temperature Derate	122,767.5	-9.7				
Energy	Output After Mismatch	113,717.7	-7.4				
(kWh)	Optimal DC Output	113,185.1	-0.5				
	Constrained DC Output	108,787.8	-3.9				
	Inverter Output	106,612.0	-2.0				
	Energy to Grid	105,482.2	-1.1				
Temperature	Metrics						
	Avg. Operating Ambient Temp		17.5				
	Avg. Operating Cell Temp		37.9				
Simulation Me	etrics						
	0	perating Hours	43				
	Solved Hours						

Condition Set												
Description	Cond	dition	Set 1									
Weather Dataset	TMY	, SAN	JOSE I	NTL	AP, NSF	RDB (t	my3,	II)				
Solar Angle Location	Mete	eo Lat	:/Lng									
Transposition Model	Pere	z Moo	del									
Temperature Model	Sand	dia Mo	odel									
	Rack Type				a b			Temperature Delta				
Temperature Model	Fixed Tilt				-3.56	-0.075			3°C			
Parameters	Flush Mount			_	-2.81	-0.04			0°C			
	East-West			_	-3.56	-0.0			3°C			
	Carp				-3.56	-0.0			3°C			
Soiling (%)	J	F	M	A		J	J	A	-	0	N	D
	3 5%	3	3	3	6	6	6	6	3	3	3	3
Irradiation Variance	5%											
Cell Temperature Spread	4° C											
Module Binning Range	-2.59	% to 2	.5%									
AC System Derate	2.00	%										
Trackers	Max	imum	Angle				E	Back	trackin	g		
Trackers	60°						E	Enab	led			
Module	Mod	lule				Uplo By	aded	I	Chara	octeriza	ition	
Characterizations		(1000			HC-BF- Boviet	Heli	oSco	pe		Sheet acteriza	ation,	PAN
Component	Devi	ice					Upl By	oad	ed	Chara	cteriza	ation
Characterizations		SCA2 nt Po		00-1	R/US-480	0	He	lioSc	ope	Spec	Sheet	

🖨 Compo	nents	
Component	Name	Count
Inverters	CPS SCA25KTL-DO-R/US-480 (Chint Power)	3 (75.0 kW)
AC Panels	3 input AC Panel	1
AC Home Runs	4/0 AWG (Aluminum)	1 (1,591.5 ft)
AC Home Runs	3/0 AWG (Aluminum)	3 (873.4 ft)
Strings	10 AWG (Copper)	9 (973.4 ft)
Module	Boviet Solar, BVM7612M-550- H-HC-BF-DG (1000V) (2023) (550W)	140 (77.0 kW)

Description	Combiner Poles	String Size	Stringing Strategy
Viring Zone		14-18	Along Racking

Field Seg	ments								
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 2	Flush Mount	Portrait (Vertical)	20.504398°	180°	0.1 ft	1x1	51	51	28.1 kW
Field Segment 2	Flush Mount	Landscape (Horizontal)	20.504398°	270.3661°	0.1 ft	1x1	19	19	10.5 kW
Field Segment 2 (copy)	Flush Mount	Landscape (Horizontal)	20.504398°	270.3661°	0.1 ft	1x1	30	30	16.5 kW
Field Segment 4	Flush Mount	Landscape (Horizontal)	20.504398°	180.22557°	0.1 ft	1x1	40	40	22.0 kW

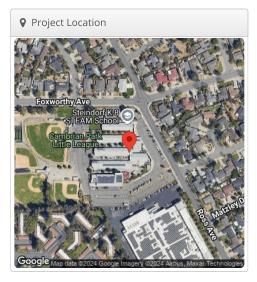


## (RT BVM550) CSD Steindorf Steam (11.13.24) Cambrian SD Steindorf Steam

(3.23.23), 3001 Ross Ave, San Jose, CA 95124

🖋 Report	
Project Name	Cambrian SD Steindorf Steam (3.23.23)
Project Address	3001 Ross Ave, San Jose, CA 95124
Prepared By	Sneha Sriwastava sneha.sriwastava@centrica.com

LIII System Metr	ics
Design	(RT BVM550) CSD Steindorf Steam (11.13.24)
Module DC Nameplate	68.8 kW
Inverter AC Nameplate	60.0 kW Load Ratio: 1.15
Annual Production	107.2 MWh
Performance Ratio	78.0%
kWh/kWp	1,560.0
Weather Dataset	TMY, SAN JOSE INTL AP, NSRDB (tmy3, II)
Simulator Version	2ca4d0df47-1747616d07- 3bffb33f9a-fb35cdaf62





118.1

194.8

230.9

241.2

241.5

227.3

192.1

153.1

107.1

92.2

7,623.7

12,638.9

14,549.1

15,207.7

15,234.6

14,334.8

12,482.1

9,918.1

6,893.7

5,913.8

6,607.4

10,716.4

12,157.4

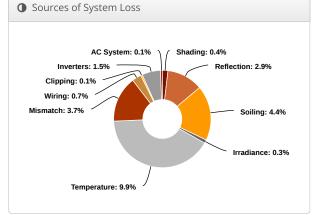
12,615.8

12,589.2

11,721.8 10,316.8

8,343.4 6,030.9

5,209.1



March

April

May

June

July August

September

November

December

October

107.0

182.0

226.6

243.1

239.4

214.9

170.2

126.1

81.0

67.2

118.7

195.5

231.7

242.2

242.3

228.0

192.8

153.8

107.9

92.9

Annual Production Report produced by Sneha Sriv	
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	Description	Output	% Delta			
	Annual Global Horizontal Irradiance	1,810.2				
	POA Irradiance	1,999.6	10.5			
Irradiance	Shaded Irradiance	1,990.6	-0.4			
(kWh/m <sup>2</sup> )	Irradiance after Reflection	1,932.9	-2.9			
	Irradiance after Soiling	1,847.4	-4.4			
	Total Collector Irradiance	1,847.5	0.0			
	Nameplate	127,185.9				
	Output at Irradiance Levels	126,832.6	-0.3			
Energy	Output at Cell Temperature Derate	114,228.3	-9.9			
	Output After Mismatch	109,989.1	-3.7			
(kWh)	Optimal DC Output	109,179.6	-0.7			
	Constrained DC Output	109,039.0	-0.1			
	Inverter Output	107,403.4	-1.5			
	Energy to Grid	107,249.9	-0.1			
Temperature l	Metrics					
	Avg. Operating Ambient Temp		17.5			
	Avg. Operating Cell Temp		38.9			
Simulation Me	trics					
	O	perating Hours	43			
Solved Hours						

Condition Set												
Description	CBS	STAN	DARD									
Weather Dataset	TMY	, SAN	JOSE I	NTL A	AP, NSF	RDB (t	my3,	II)				
Solar Angle Location	Mete	eo Lat	:/Lng									
Transposition Model	Pere	z Mo	del									
Temperature Model	Sand	dia Mo	odel									
	Rack Type a				b	Temperature Delta						
Torres and the Mardal	Fixe	d Tilt		-3	8.56	-0.0	-0.075		3°C			
Temperature Model Parameters	Flus	h Mo	unt	-2	2.81	-0.04	455		0°C			
	East	-Wes	t	-3	8.56	-0.0	75		3°C			
	Carp				8.56		-0.075		3°C			
Soiling (%)	J	F	М	A	М	J	J	A		0	N	D
	3	3	3	3	6	6	6	6	3	3	3	3
Irradiation Variance	5%											
Cell Temperature Spread	4° C											
Module Binning Range	-2.59	% to 2	.5%									
AC System Derate	2.00	%										
Trackers	Max	imum	Angle				Backtracking					
Trackers	60°						1	Enab	led			
	Mod	lule				Uplo By	adec	ł	Char	acteriza	ition	
Module Characterizations	•	.3/BF	UO XL G 585		wha	Heli	oSco	pe		Sheet acteriz	ation,	PAN
		(1500	M-550 V) (202			Heli	oSco	pe		Sheet acteriz	ation,	PAN
Component	Devi	ice					Up By	Uploaded By Chara		Chara	cteriz	ation
Characterizations			0KTL-I nint Pc		S-480 System	IS)	He	lioSo	cope	Spec	Sheet	

🖨 Compo	nents	
Component	Name	Count
Inverters	CPS SCA60KTL-DO/US-480 (Jul21) (Chint Power Systems)	1 (60.0 kW)
AC Panels	1 input AC Panel	1
AC Home Runs	4/0 AWG (Aluminum)	1 (102.3 ft)
AC Home Runs	3/0 AWG (Aluminum)	1 (194.4 ft)
Strings	10 AWG (Copper)	8 (2,241.8 ft)
Module	Boviet Solar, BVM7612M-550- H-HC-BF-DG (1500V) (2023) (550W)	125 (68.8 kW)

🔒 Wiring Z	ones								
Description		Combiner Poles		Stri	ing Size	String	ing Strateg	gy	
Wiring Zone		-		13-	17	Along	Racking		
Wiring Zone 2		-		14-	18	Along	Racking		
<b>III</b> Field Seg	ments								
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame	Frames	Modules	Power
					Spacing	Size			1 offer
Field Segment 1	Carport	Landscape (Horizontal)	7°	150.30614°		1x1			0
-			•	150.30614° 180°			101	101	

