Biola Community Services District – Clean Energy & Sustainability Program Review

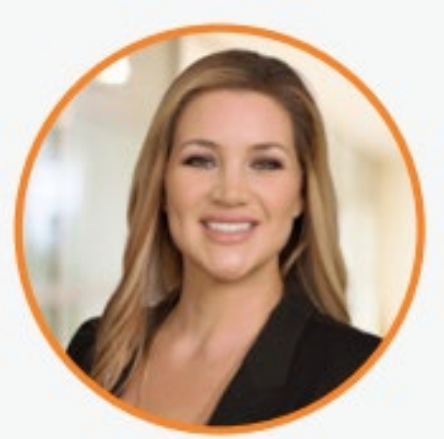
Presented By: SitelogIQ's

Local Government Energy Team

sitelogiQ
Efficiency Powered by Intelligence

May 8, 2025

INTRODUCTIONS



Jessica Ritter
Local Government Relations

400+ Employees

$5 Billion Constructed

11,000 Customer Sites

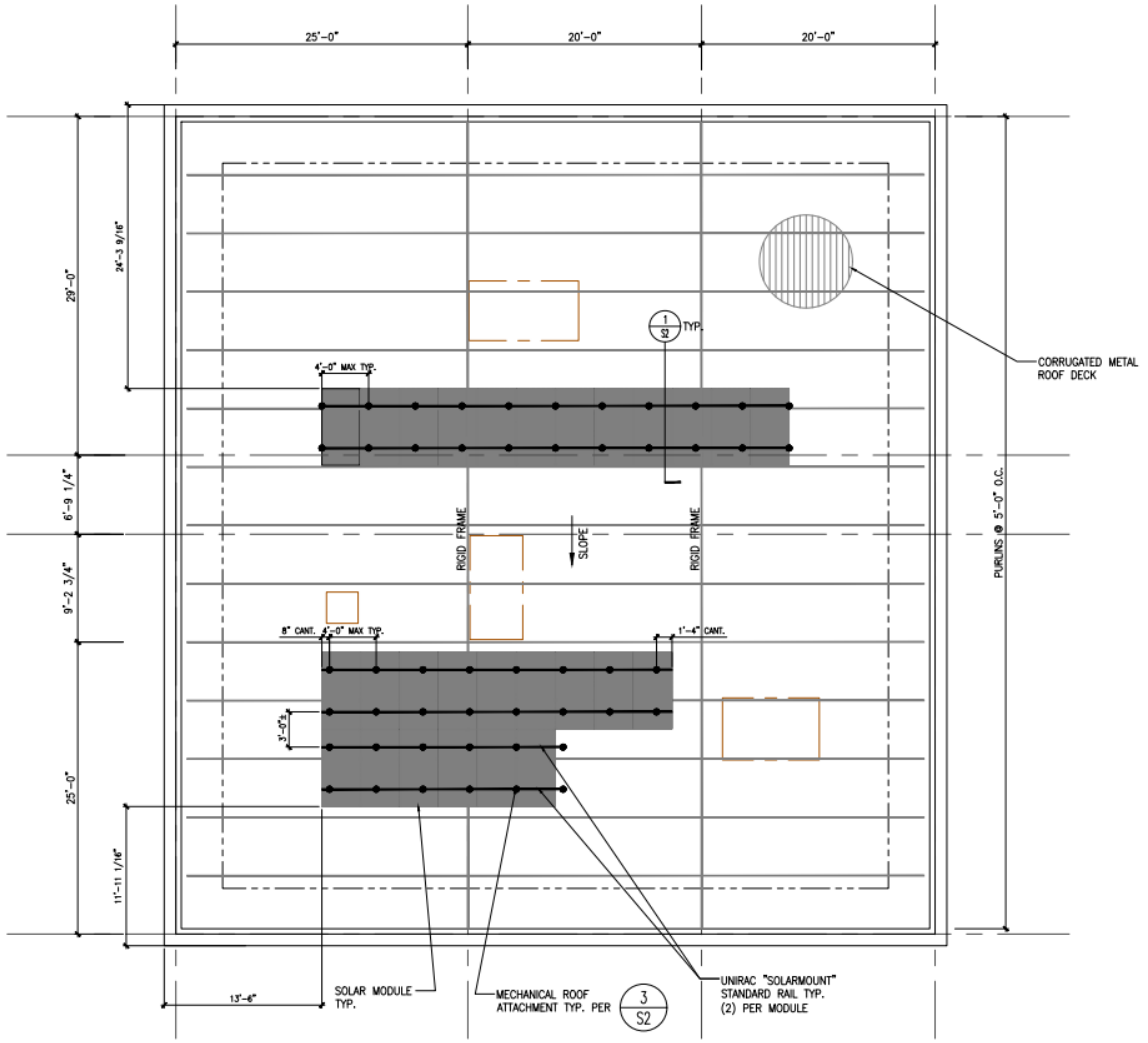
$1 Billion Saved in Energy & Ops

U.S. Owned Organization

AGENDA

- PROJECT SCOPE OF WORK
- PROJECT TIMELINE
- LOAN PROGRAM DETAILS
- PG&E COST & SOLAR COMPARISON TABLE
- PG&E ELECTRIC USAGE BY CALENDAR YEAR
- SOLAR SAVINGS, ECAA LOAN & O&M COST COMPARISON
- ENERGY MANAGEMENT SERVICES DASHBOARD
- ADDITIONAL WAYS TO SAVE
- Q&A

COMMUNITY CENTER Roof Mounted PV System



PTO Date: 12.16.2020

CLIENT

Biola Community Services District
4925 N. 7th Ave., Biola, CA 93606

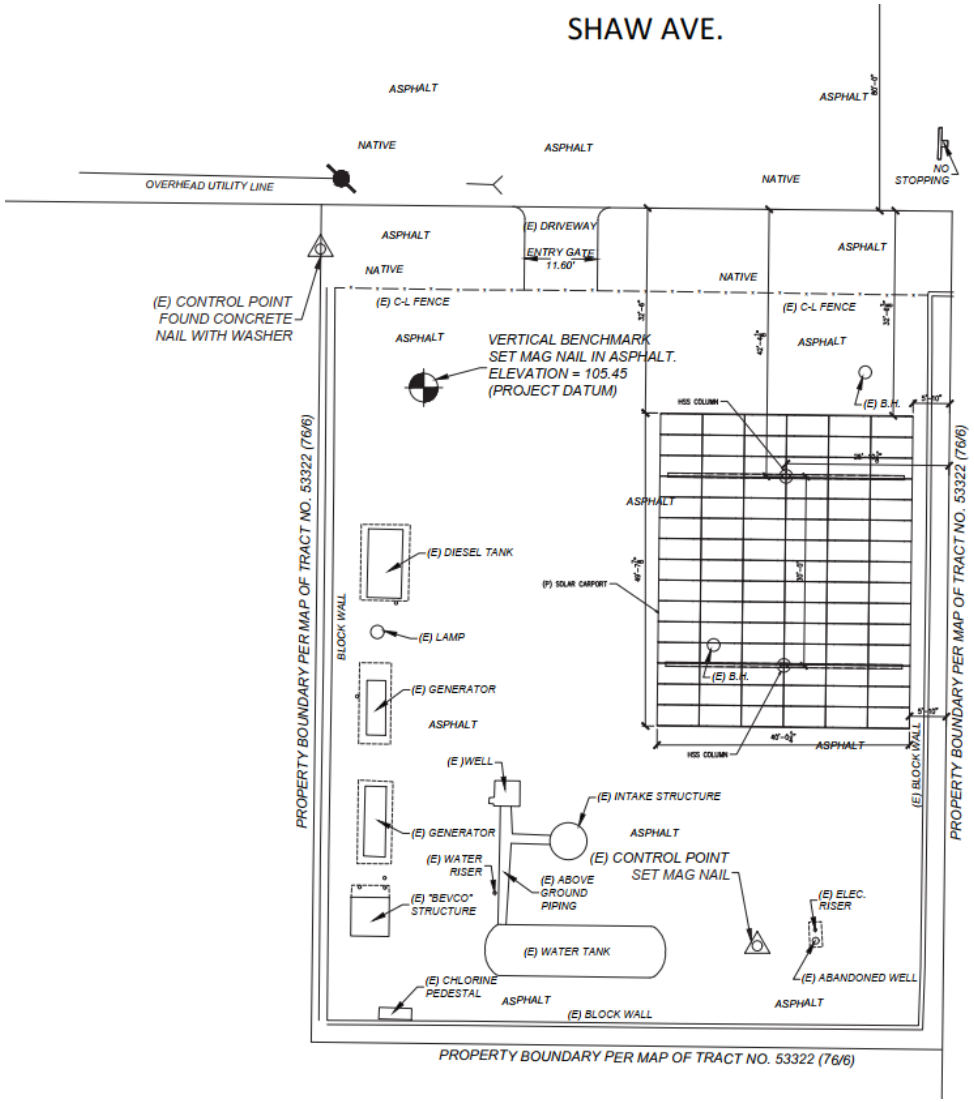
PROJECT LOCATION

COMMUNITY CENTER
4925 N. 7TH AVE.
BIOLA, CA 93606

APPROVED
Oct 21 2020
COUNTY OF FRESNO
DEVELOPMENT SERVICES

SYSTEM SUMMARY	
MODULE MODEL	CANADIAN SOLAR CS3U-380MB-AG
MODULE STC DC RATING	380W
TOTAL MODULE COUNT	27
TOTAL STC DC SYSTEM SIZE	10.26kW
TOTAL NOMINAL AC SYSTEM SIZE	9.00kW
TOTAL CEC-AC SYSTEM SIZE	9.294kW
INVERTER MODELS	(1) SOLAR EDGE SE9KUS
MODULE TILT	5°
ARRAY AZIMUTH	180°
POINT OF SERVICE FAULT CURRENT CONTRIBUTION	73 AIC
POINT OF SERVICE RATING	42,000 AIC

WELL #3 Canopy Mounted PV System



CLIENT

Biola Community Services District
4925 N. 7th Ave., Biola, CA 93606

PROJECT LOCATION

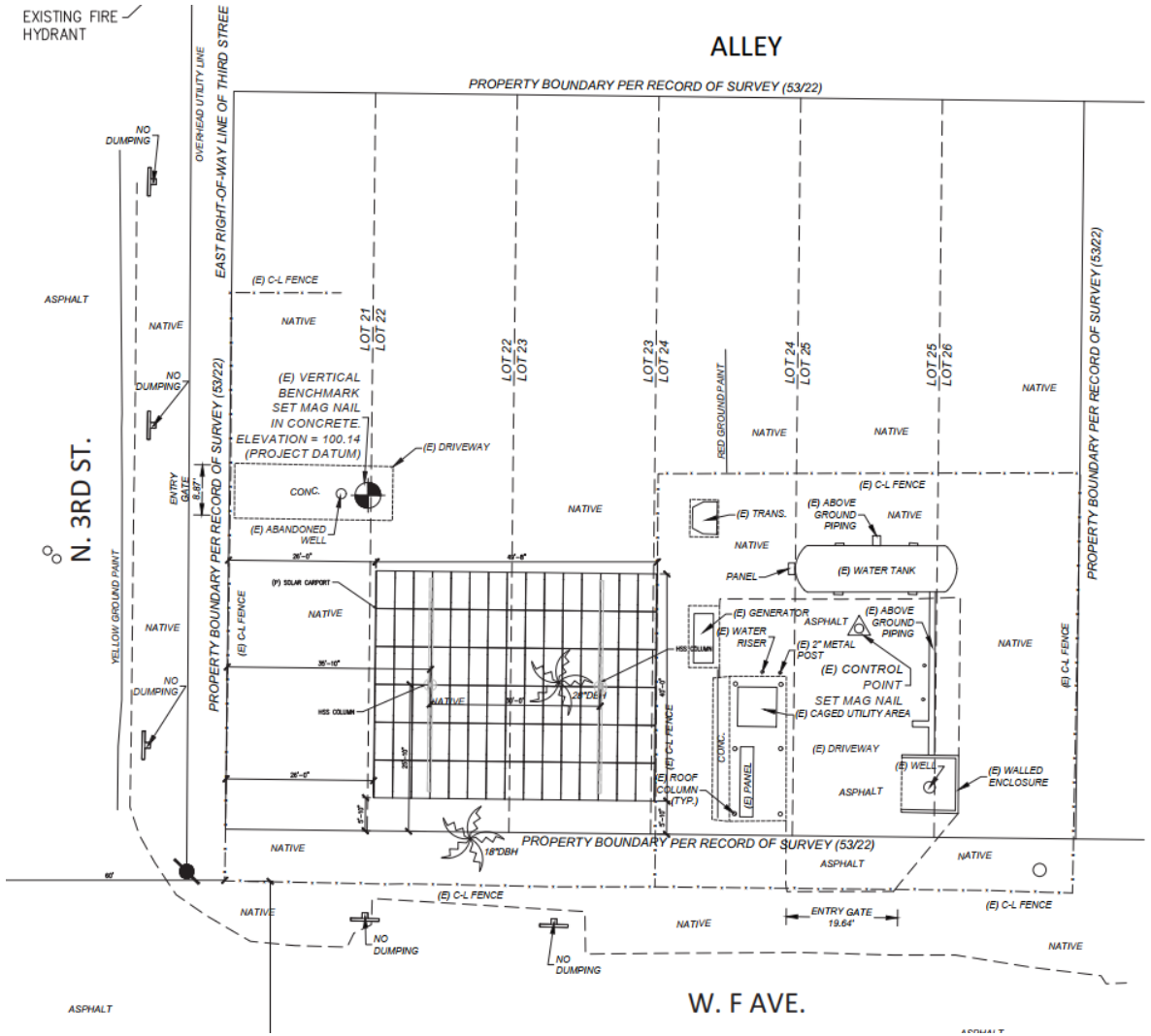
WELL #3
S/S. SHAW & W/BIOLA
KERMAN, CA 93630

PTO Date: 7.23.2021

APPROVED
Mar 18 2021
DEVELOPMENT SERVICES

SYSTEM SUMMARY	
MODULE MODEL	CANADIAN SOLAR CS3U-380MB-AG
MODULE STC DC RATING	380W
TOTAL MODULE COUNT	90
TOTAL STC DC SYSTEM SIZE	34.20kW
TOTAL NOMINAL AC SYSTEM SIZE	30.00kW
TOTAL CEC-AC SYSTEM SIZE	31.461kW
INVERTER MODELS	(1) CANADIAN SOLAR CSI-30KTL-GS-FL
MODULE TILT	5°
ARRAY AZIMUTH	270°
POINT OF SERVICE FAULT CURRENT CONTRIBUTION	98 AIC
POINT OF SERVICE RATING	22,000 AIC

WELL #4 Canopy Mounted PV System



CLIENT

Biola Community Services District
4925 N. 7th Ave., Biola, CA 93606

PROJECT LOCATION

WELL #4
N/E CORNER
F ST. & 3RD ST.
BIOLA, CA 93606

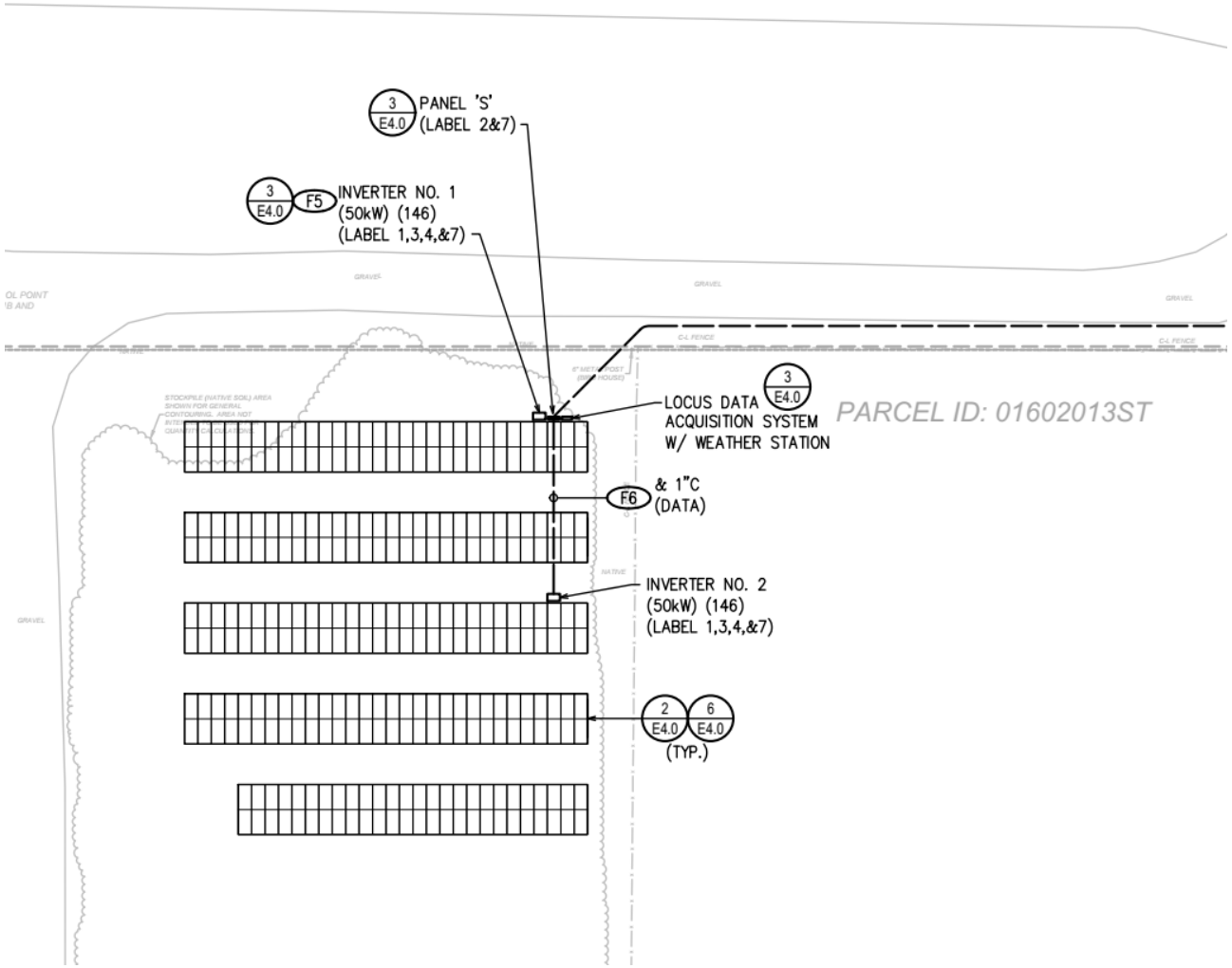
PTO Date: 7.29.2021

APPROVED
Mar 18 2021
DEVELOPMENT SERVICES

SYSTEM SUMMARY

MODULE MODEL	CANADIAN SOLAR CS3U-380MB-AG
MODULE STC DC RATING	380W
TOTAL MODULE COUNT	90
TOTAL STC DC SYSTEM SIZE	34.20kW
TOTAL NOMINAL AC SYSTEM SIZE	30.00kW
TOTAL CEC-AC SYSTEM SIZE	31.461kW
INVERTER MODELS	(1) CANADIAN SOLAR CSI-30KTL-GS-FL
MODULE TILT	5°
ARRAY AZIMUTH	180°
POINT OF SERVICE FAULT CURRENT CONTRIBUTION	98 AIC
POINT OF SERVICE RATING	50,000 AIC

WASTEWATER TREATMENT PLANT Ground Mounted PV System



CLIENT

Biola Community Services District
4925 N. 7th Ave., Biola, CA 93606

PROJECT LOCATION

WASTE WATER TREATMENT PLANT
HOWARD & GETTYSBURG
BIOLA, CA 93606

PTO Date: 4.15.2022

APPROVED
May 13 2021
DEVELOPMENT SERVICES

SYSTEM SUMMARY	
MODULE MODEL	CANADIAN SOLAR CS3U-355MS
MODULE STC DC RATING	355W
TOTAL MODULE COUNT	292
TOTAL STC DC SYSTEM SIZE	103.66kW
TOTAL NOMINAL AC SYSTEM SIZE	100.00kW
TOTAL CEC-AC SYSTEM SIZE	94.943kW
INVERTER MODELS	(2) CANADIAN SOLAR CSI-50KTL-GS
MODULE TILT	20°
ARRAY AZIMUTH	180°
POINT OF SERVICE FAULT CURRENT CONTRIBUTION	244 AIC
POINT OF SERVICE RATING	42,000 AIC

Community Center HVAC & Cool Roof Scope

- Replaced (1) 12.5 Ton Packaged Unit
- Replaced (1) 3.0 Ton Packaged Unit
- Installed 1.5” of Polyurethane Foam Over Entire Roof Deck

Signed Notice to Proceed & Certificate of Final Completion and Acceptance

EXHIBIT G
NOTICE TO PROCEED

SitelogIQ, Inc.
1512 Silica Avenue
Sacramento, CA 95815
Kecia Davison, Vice President, Sales

Re: Notice to Proceed

Dear Ms.Davison:

This Notice to Proceed is being issued by Biola Community Service District ("District") to SitelogIQ, Inc. ("Contractor") pursuant to the 4217 Facility Solutions Agreement, entered into, on June 1, 2020.

In the event, that this Notice to Proceed is delivered by the District prior to the execution of the Performance Contract by District and Contractor, District understands and expects the Contractor will incur significant costs and expenses in complying with this Notice to Proceed. In the event the 4217 Facility Solutions Agreement is not executed by the parties, for any reason, District agrees to pay the Contractor for its costs and fees incurred in complying with this Notice to Proceed on a time and material basis and within thirty (30) days. The Contractor will continue to submit payment applications to District until the 4217 Facilities Solutions Agreement is executed. Once the 4217 Facility Solutions Agreement is executed, the Contractor will begin submitting its payment applications to District in accordance with the terms and conditions set forth therein. Any amounts already paid by District will be credited towards the 4217 Facility Solutions Agreement price.

This Notice to Proceed authorizes the Work described by Exhibit C of the Agreement.

By signing and dating this Notice to Proceed, the parties hereto agree to these terms and represent and warrant they have the authority to execute this Notice to Proceed on behalf of their respective organizations.

ACKNOWLEDGED & AGREED TO:

BIOLA COMMUNITY SERVICES DISTRICT
Signature:
Name: Eduardo Antunez
Title: Interim General Manager
Date: 6-2-20

FAMAND INC. DBA SITELOGIQ
Signature:
Name: Kecia Davison
Title: Vice President, Sales
Date: 6-3-2020

sitelogiq
Efficiency Powered by Intelligence

2651 Response Rd Suite 300
Sacramento CA 95815

EXHIBIT F

CERTIFICATE OF FINAL COMPLETION AND ACCEPTANCE
Biola Community Services District – Solar Multiple Sites (23.0020 / 000151)
Biola Community Services District – HVAC and Cool Roof Projects (22.1373)
Final Contract Amount = $906,318.30

The undersigned, Biola Community Services District ("the Customer"), having its office at 4925 N 7th St, Biola, CA 93723 having entered into the Facility Solutions Agreement ("Agreement") dated June 3rd, 2020, with SitelogIQ, Inc. ("Contractor"), does hereby certify as follows:

1. I am authorized to issue this Final Completion Certificate on behalf of the Customer.
2. As of the date hereof, all the requirements for achievement of Final Completion pursuant to the Agreement have been met.

ACCEPTANCE

Contractor:
SitelogIQ, Inc.
By: Jeff Dennis
585408147F3A421...
Name: Jeff Dennis
Title: Director of Projects
Date: 7/5/2022

Customer:
Biola Community Services District
By:
Name: Cruz Ramos
Title: General Manager
Date: 7/5/22

California Energy Commission 1% Loan Program Details

EXHIBIT A
ATTACHMENT 1
BUDGET DETAIL/PROJECT COST AND SAVINGS

This loan is made to the Biola Community Services District ("Borrower") for an energy savings project. The project consists of the energy efficiency and renewable energy measures listed in Table 1 below to be installed in Biola, California, Fresno County.

The table below summarizes the estimated project cost(s), saving(s), and simple payback(s) for the project.

TABLE 1: Summary of Project Cost and Savings:

Energy Efficiency Measures	Estimated Total Project Cost	Energy Commission Loan	Estimated Annual Energy Cost Savings	Simple Payback* (Years)
Install a 10.3 kW_{dc} Rooftop Solar PV Array at Community Center	$53,380	$53,380	$3,141	17.0
Install a 103.4 kW_{dc} Ground-Mounted Solar PV Array at Waste Water Treatment Plant	$512,199	$512,199	$31,618	17.0
Install a 34.2 kW_{dc} Carport Structure Solar PV Array at Well #3	$149,078	$149,078	$10,325	17.0
Install a 34.2 kW_{dc} Carport Structure Solar PV Array at Well #4	$161,232	$161,232	$11,581	17.0
Replace a HVAC System at Community Center	$4,305	$4,305	$287	15.0
Roof Restoration with a Cool Roof at Community Center	$1,934	$1,710	$114	15.0
TOTALS:	**$882,128**	**$881,904**	**$57,066**	**15.5**

*The simple payback is based on the loan amount.

State of California
Energy Resources Conservation
and Development Commission
715 P Street
Sacramento, California 95814-5512

Final Loan Amortization Table

Loan Number:	**015-19-ECI**	Number of Payments:	**35**
Recipient:	**Biola Community Services District**	Disbursement Date:	**12/30/2021**
Loan Amount:	**$881,904.00**	Project Completion Date:	**7/5/2022**
Interest Rate:	**1.00 %**	Annual Energy Savings:	**$57,066.00**

Transaction Date	Payment Number	Invoice Number	Receipt Number	Disbursement Amount	Billing Invoice Interest Amount	Repay Principal Amount	Repay Interest Amount	Unscheduled Principal Amount	Unscheduled Interest Amount
08/19/2022		3F	35081	$141,413.01	$0.00	$0.00	$0.00	$0.00	$0.00
08/12/2022		2	34994	$211,348.59	$0.00	$0.00	$0.00	$0.00	$0.00
12/18/2020		1	27995	$529,142.40	$0.00	$0.00	$0.00	$0.00	$0.00

Trans #	Payment Date	Accrued Interest	Payment Amount	Interest Payment	Principal Payment	Principal Balance
Disbursement 1	12/18/2020	$0.00	($529,142.40)	$0.00	($529,142.40)	$529,142.40
Disbursement 2	8/12/2022	$8,727.23	($211,348.59)	$0.00	($211,348.59)	$740,490.99
Disbursement 3	8/19/2022	$142.01	($141,413.01)	$0.00	($141,413.01)	$881,904.00
Payment 1	12/22/2023	$11,839.26	$28,037.06	$20,708.50	$7,328.56	$874,575.44
Payment 2	6/22/2024	$4,384.86	$28,037.06	$4,384.86	$23,652.20	$850,923.23
Payment 3	12/22/2024	$4,266.27	$28,037.06	$4,266.27	$23,770.79	$827,152.45
Payment 4	6/22/2025	$4,124.43	$28,037.06	$4,124.43	$23,912.63	$803,239.82
Payment 5	12/22/2025	$4,027.20	$28,037.06	$4,027.20	$24,009.86	$779,229.96
Payment 6	6/22/2026	$3,885.48	$28,037.06	$3,885.48	$24,151.58	$755,078.38
Payment 7	12/22/2026	$3,785.74	$28,037.06	$3,785.74	$24,251.32	$730,827.05
Payment 8	6/22/2027	$3,644.12	$28,037.06	$3,644.12	$24,392.94	$706,434.12
Payment 9	12/22/2027	$3,541.85	$28,037.06	$3,541.85	$24,495.21	$681,938.90
Payment 10	6/22/2028	$3,419.04	$28,037.06	$3,419.04	$24,618.02	$657,320.88
Payment 11	12/22/2028	$3,295.61	$28,037.06	$3,295.61	$24,741.45	$632,579.43
Payment 12	6/22/2029	$3,154.23	$28,037.06	$3,154.23	$24,882.83	$607,696.60
Payment 13	12/22/2029	$3,046.81	$28,037.06	$3,046.81	$24,990.25	$582,706.35
Payment 14	6/22/2030	$2,905.55	$28,037.06	$2,905.55	$25,131.51	$557,574.84
Payment 15	12/22/2030	$2,795.51	$28,037.06	$2,795.51	$25,241.55	$532,333.29
Payment 16	6/22/2031	$2,654.37	$28,037.06	$2,654.37	$25,382.69	$506,950.60
Payment 17	12/22/2031	$2,541.70	$28,037.06	$2,541.70	$25,495.36	$481,455.24
Payment 18	6/22/2032	$2,413.87	$28,037.06	$2,413.87	$25,623.19	$455,832.05
Payment 19	12/22/2032	$2,285.40	$28,037.06	$2,285.40	$25,751.66	$430,080.40
Payment 20	6/22/2033	$2,144.51	$28,037.06	$2,144.51	$25,892.55	$404,187.85

State of California
Energy Resources Conservation
and Development Commission
715 P Street
Sacramento, California 95814-5512

Payment 21	12/22/2033	$2,026.48	$28,037.06	$2,026.48	$26,010.58	$378,177.26
Payment 22	6/22/2034	$1,885.71	$28,037.06	$1,885.71	$26,151.35	$352,025.91
Payment 23	12/22/2034	$1,764.95	$28,037.06	$1,764.95	$26,272.11	$325,753.80
Payment 24	6/22/2035	$1,624.31	$28,037.06	$1,624.31	$26,412.75	$299,341.05
Payment 25	12/22/2035	$1,500.81	$28,037.06	$1,500.81	$26,536.25	$272,804.79
Payment 26	6/22/2036	$1,367.76	$28,037.06	$1,367.76	$26,669.30	$246,135.49
Payment 27	12/22/2036	$1,234.05	$28,037.06	$1,234.05	$26,803.01	$219,332.48
Payment 28	6/22/2037	$1,093.66	$28,037.06	$1,093.66	$26,943.40	$192,389.08
Payment 29	12/22/2037	$964.58	$28,037.06	$964.58	$27,072.48	$165,316.60
Payment 30	6/22/2038	$824.32	$28,037.06	$824.32	$27,212.74	$138,103.86
Payment 31	12/22/2038	$692.41	$28,037.06	$692.41	$27,344.65	$110,759.21
Payment 32	6/22/2039	$552.28	$28,037.06	$552.28	$27,484.78	$83,274.43
Payment 33	12/22/2039	$417.51	$28,037.06	$417.51	$27,619.55	$55,654.88
Payment 34	6/22/2040	$279.04	$28,037.06	$279.04	$27,758.02	$27,896.86
Payment 35	12/22/2040	$139.87	$28,036.73	$139.87	$27,896.86	$0.00

- First $28,000 loan payment made to CEC:

  December 2023

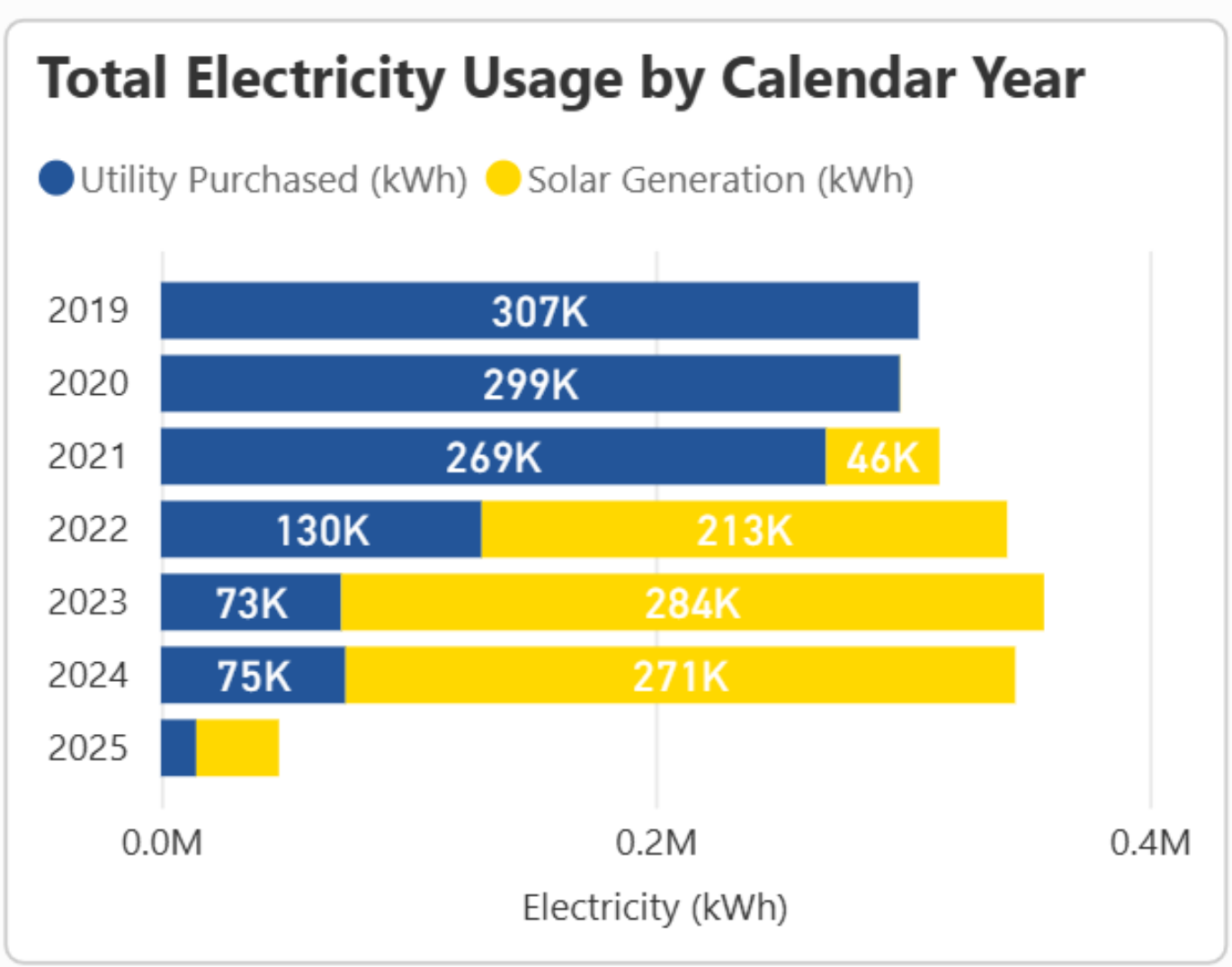
PG&E Cost + Solar Comparison Table

2023	WWTP	Well #3	Well #4	Comm Center	Total
2023 PGE cost	$26,237	$6,157	$5,283	$6,506	$44,183
2023 Solar + PGE simulated cost	$104,648	$9,766	$20,412	$10,186	$145,012
Solar Offset (Cost Savings)	$78,411	$3,609	$15,129	$3,680	$100,829

2024	WWTP	Well #3	Well #4	Comm Center	Total
2024 PGE cost	$29,960	$6,664	$8,595	$6,818	$52,037
2024 Solar + PGE simulated cost	$66,222	$24,904	$29,944	$12,589	$133,659
Solar Offset (Cost Savings)	$36,262	$18,240	$21,349	$5,771	$81,622

- PG&E Cost = What Biola paid to PG&E per site in 2023 & 2024
- Solar + PGE Simulated Cost = Modeled cost for PG&E purchased energy if there was no solar
- Solar Offset (Cost Savings) = What the District saved in PG&E cost for 2023 & 2024

PG&E Electricity Usage by Calendar Year



- 2021 – 2024 District electricity usage increased.
- PG&E rates have also increased, costing the District more for electricity purchased from the grid.

Total Electricity Usage:

2019	307,000kWh
2020	299,000kWh
2021	315,000kWh
2022	343,000kWh
2023	357,000kWh
2024	346,000kWh

Solar Savings, ECAA Loan & O&M Cost Comparison

2024 Solar Savings: **$81,622**

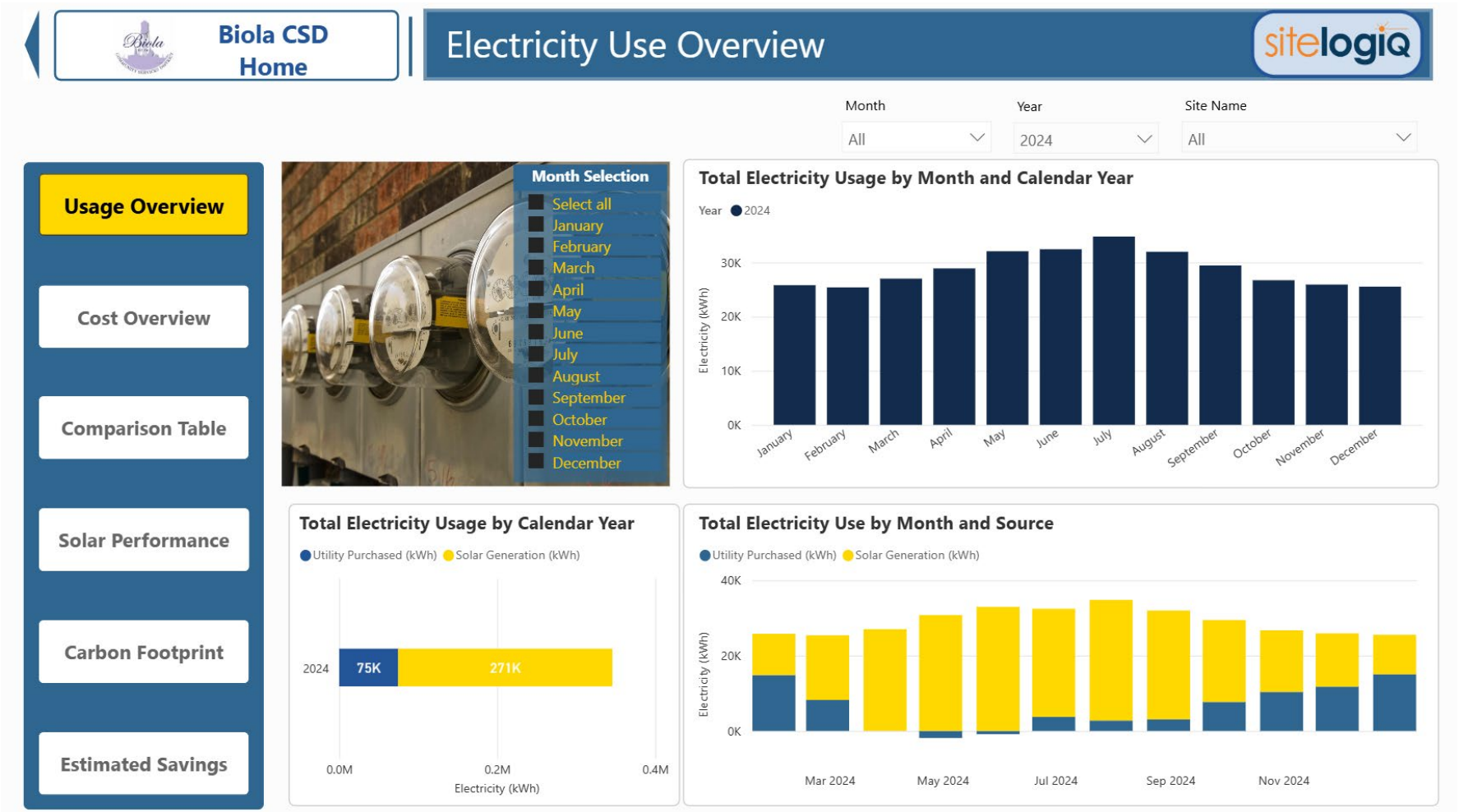
2024 ECAA Loan Payment: **$56,074**

2024 SitelogIQ Operation & Maintenance Agreement Cost: **$6,786**

2024 NET Savings to the District:

$18,762

Energy Management Services Dashboard



Link to Energy Dashboard

[Biola CSD Energy Dashboard]

Additional Ways to Save

- SitelogIQ's 2025 rate analysis performed in January shows that switching the Wastewater Treatment Plant to a B1 rate schedule will **significantly** save costs (est. $15-20k per year based on 2024 usage). It is recommended to make this change as soon as possible.

- To help maintain maximum production at the WWTP, an inverter replacement (via manufacturer warranty) is being implemented.

- Routine HVAC maintenance at the Community Center will help reduce electricity costs.

- Routine maintenance on pumps, motors and drives at well sites and WWTP can help reduce electricity costs.

- Having a battery storage analyses performed for the District may show the potential for additional savings.


Questions?
sitelogiq