

Escalon Consolidated Fire
Protection District

1749 Coley Avenue
Escalon, CA 95320
Phone 209-838-7500
Fax 209-838-3926



Board of Directors

Joe Camara, Board Chairperson
Jason Koops, Vice Chairperson
Mikey Schilber, Secretary
Zach Hogan, Director
Steven Gregg, Director

Rick Mello, Fire Chief

Post Date: February 5, 2024

Board of Directors Meeting
1531 1st Street, Escalon, CA 95320
February 8, 2024, at 4 P.M.

REGULAR MEETING AGENDA

I. CALL MEETING TO ORDER

II. ROLL CALL

Joe Camara, Board Chairperson
Jason Koops, Vice Chairperson
Mickey Schilber, Secretary
Zach Hogan, Director
Steven Gregg, Director

III. PUBLIC COMMENT

This time is provided for the public to address the Board of Directors on items not on the Agenda which are within the jurisdiction of the Board and are offered for the good of the District. Public comments regarding items on the Agenda should be given at the time of the item. Public comments are limited to 5 minutes per person.

IV. MINUTES

Approval of the minutes from the Regular Board Meeting on January 11, 2024.

V. BILLS

Bills for the month of January in the amount of \$30,878.35.

VI. COMMUNICATIONS

VII. FIRE CHIEF'S REPORT

VIII. OLD BUSINESS

A. Form 700

Presented by: Fire Chief, Rick Mello
Requested Action / Purpose:
Attachments

IX. NEW BUSINESS

A. Solar Bids- ARPA Funding

Presented by: Fire Chief, Rick Mello & Director Hogan

Requested Action / Purpose:

Attachments:

X. ACCOUNCEMENTS OF FUTURE BOARD MEETINGS

Regular Board meetings are held the second Thursday of every month at 4:00 p.m. located at 1531 1st Street, Escalon, California. The next Regular Meeting of the Board of Directors is March 14, 2024.

XI. CLOSED SESSION

A. No closed session.

XII. RECONVENE OPEN SESSION

XIII. ANNOUNCEMENTS FOLLOWING CLOSED SESSION

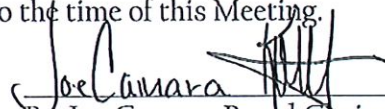
The Board President, Fire Chief or District Counsel will notify the public regarding any reportable action taken during closed session.

XIV. ADJOURN

XV. CERTIFICATION

I, Joe Camara, Board Chairperson for the Escalon Consolidated Fire Protection District, do hereby certify that a copy of the foregoing Agenda was posted at the District Office, 1749 Coley Avenue, Escalon, California 95320 at least 72 hours prior to the time of this Meeting.

Date: February 5, 2024


By: Joe Camara, Board Chairperson

AVAILABILITY OF PUBLIC RECORDS: All public records relating to open session items on this Agenda which are not exempt from disclosure pursuant to the California Public Records Act, and which are distributed in connection with the open session items are available for public inspection at the District Office, 1749 Coley Avenue, Escalon, California 95320 at the same time that the public records are distributed or made available to the legislative body. If, however, the public records are not distributed until the Meeting at which the Agenda item is considered, then the public records will be made available to the public at the location of the Meeting as listed on the Agenda at the District Office, 1749 Coley Avenue, Escalon, California 95320. Persons who require disability-related accommodation, including auxiliary aids or services, should contact the Fire Chief at least 24 hours prior to the meeting for which accommodation is required. The Fire Chief, Rick Mello, can be contacted in person or by mail at the District Office, 1749 Coley Avenue, Escalon, California 95320 or by telephone at (209) 838-7500.

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Board of Directors

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Zach Hogan, Director
Steven Gregg, Director

Rick Mello, Fire Chief

ESCALON CONSOLIDATED FIRE
PROTECTION DISTRICT
BOARD OF DIRECTOR'S MINUTES
JANUARY 2024

I. MEETING CALLED TO ORDER

The monthly Board of Directors meeting of the Escalon Consolidated Fire Protection District was called to order by Director Joe Camara at 4:00 p.m. on January 11, 2024.

II. ROLL CALL

Directors present: Joe Camara, Mickey Schilber, Zach Hogan, and Steven Gregg.

Directors absent: Jason Koops

Others present Fire Chief Rick Mello, Administrative Assistant Katy House, Battalion Chief Joe Pelot, Firefighter Engineer Ryan Burr, Volunteer Firefighter Kaden Christensen, and Reserve Firefighter Nathan Rodriguez.

III. PUBLIC COMMENT

A. No public comment.

IV. MINUTES

Minutes for the meeting on December 7, 2023, were approved on a motion by Director Hogan and a second by Director Schilber.

4-AYES 0-NAYES 1-ABSENT

V. BILLS

December bills in the amount of \$23,523.02 were approved to be paid on a motion by Director Schilber and a second by Director Gregg.

4-AYES 0-NAYES 1-ABSENT

VI. COMMUNICATIONS

A. No communications.

VII. FIRE CHIEF'S REPORT – January 2024

A. Status of Fire Department

- a. 108 calls for the month and 1,220 for 2023.

B. Training

a. December Drills

12-6-2023 Annual Reserve Dinner (13 participants)

The annual toy giveaway was held on December 19th this year. We had 41 families/110 kids sign up this year. The community came through with a large number of toys. We will be able to store the excess at Escalon PD for next year.

C. Prevention

Fire Prevention: While December is historically a slow month with permits and construction plan submittals, we did receive one application for a new business. Austin Meats has submitted plans for a new building on Escalon Ave just north of Miller.

Mercantile inspections are continuing, and 2023 inspections conclude in March. The period of inspections runs from April to March, based on when permit fees are paid within the city.

D. Apparatus and Equipment

- E 1-1 went to Burton's for repairs.

E. Buildings and Grounds

- We are in the process of gathering bids for the Station 1 solar project.
- The plumbing for the washer-dryer upgrade/improvement project has been completed by Mid Valley Plumbing. The new units have been ordered (dual stackable) with a tentative delivery date of one to two weeks.

F. San Joaquin County Fire Chief's Association

- Meeting 1-3-24, general business.

G. San Joaquin County Radio Users Group

- Meeting 12-20-23, general business and dispatch appreciation lunch.

H. Miscellaneous

- The Christmas Toy Drive was a success once again. The toys were distributed on December 19. We provided toys for forty-one families, with 110 kids.
- We have been approved for additional ballistic protection via the Homeland Security Grant within San Joaquin County. The timeline to receive the equipment is unknown; however, we expect to receive four ballistic helmets and four additional vests.
- The annual Christmas Tree pickup took place on Saturday, January 6. We collected 198 trees, which are taken to Lionudakis for recycling.

VIII. OLD BUSINESS

A. No old business

IX. NEW BUSINESS

A. Election of Officers

- a. Chairperson - Joe Camara
Vice Chairperson - Jason Koops
Secretary - Mickey Schilber
Director – Zach Hogan
Director – Steven Gregg
- b. Approved on a motion by Director Schilber and a second by Director Hogan.
4-AYES 0-NAYES 1-ABSENT

B. Form 700

- a. Deadline April 1, 2024

C. Audit Fiscal Years 2021-2022 & 2022-2023

- a. Approved 2021-2022 Audit on a motion by Director Schilber and second by Director Hogan.
4-AYES 0-NAYES 1-ABSENT
- b. Approved 2022-2023 Audit on a motion by Director Gregg and a second by Director Schilber.
4-AYES 0-NAYES 1-ABSENT

X. ACCOUNCEMENTS OF FUTURE BOARD MEETINGS

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XI. CLOSED SESSION

A. Litigation / Possible Litigation (54956.9 (d)(2) – One item

XII. RECONVENE OPEN SESSION

XIII. ANNOUNCEMENTS FOLLOWING CLOSED SESSION

XIV. ADJOURN

XV. CERTIFICATION

Date: February _____, 2024

By: Joe Camara, Board Chairperson

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Escalon Consolidated Fire Protection District
Profit & Loss Detail
 January 2024

10:28 AM
 02/05/24
 Cash Basis

Type	Date	Name	Memo	Original Amou...	Paid Amo...	Balance
Ordinary Income/Expense						
Expense						
Communications						
Bill	01/08/2024	Joint Radio Users Group...	DISPATCH FEE W/OEMS, DISPATCH FEE W/EMS, MEMBER FE...	2,340.44	2,340.44	2,340.44
Bill	01/08/2024	GoTo Communications, ...	MONTHLY SERVICE	406.77	406.77	2,747.21
Bill	01/22/2024	AT&T	MONTHLY SERVICE	324.31	324.31	3,071.52
Total Communications						
Fuel						
Bill	01/08/2024	Valley Pacific Petroleum...	FUEL	738.90	738.90	738.90
Bill	01/08/2024	Valley Pacific Petroleum...	FUEL	595.62	595.62	1,334.52
Credit...	01/16/2024	First National Bank of O...	SERVICE CHARGE	35.00	35.00	1,369.52
Credit...	01/18/2024	First National Bank of O...	SERVICE CHARGE	1.75	1.75	1,371.27
Bill	01/22/2024	Valley Pacific Petroleum...	FUEL	644.62	644.62	2,015.89
Check	01/23/2024	First National Bank of O...	FUEL	104.75	104.75	2,120.64
Total Fuel						
Health Insurance						
Bill	01/22/2024	Premier Access	FEBRUARY 2024	1,017.24	1,017.24	1,017.24
Bill	01/22/2024	CaliforniaChoice Benefit...	FEBRUARY 2024	11,809.97	11,809.97	12,827.21
Total Health Insurance						
Household						
Bill	01/08/2024	Al's Certified Safe and L...	ANNUAL MONITORING SERVICE	396.00	396.00	396.00
Check	01/08/2024	Starbucks	CHRISTMAS TREE P/U - COFFEE	44.05	44.05	440.05
Check	01/08/2024	D'Boni's Pizza	CHRISTMAS TREE P/U - LUNCH	82.42	82.42	522.47
Bill	01/22/2024	Sutter Gould Medical Fo...	5X PHYSICAL EXAMS	1,931.00	1,931.00	2,453.47
Total Household						
Maintenance						
Bill	01/08/2024	Strand Ace Hardware Inc.	4 X MASKING TAPE	21.51	21.51	21.51
Check	01/29/2024	FIRESCOPE	5 X FIELD OPS GUIDE	87.59	87.59	109.10
Total Maintenance						
Maintenance Structure & Grounds						
Total Maintenance						

Escalon Consolidated Fire Protection District
Profit & Loss Detail
 January 2024

10:28 AM
 02/05/24
 Cash Basis

Type	Date	Name	Memo	Original Amou...	Paid Amo...	Balance
Bill	01/08/2024	Gym Doctors	QUARTERLY MAINTENANCE	150.00	150.00	150.00
Bill	01/22/2024	Strand Ace Hardware Inc.	1 X PVC COUPLING	8.18	8.18	158.18
Bill	01/22/2024	Strand Ace Hardware Inc.	2X ALUM DUCT CONNECTOR; 2X VENT HOOD DRYER	40.90	40.90	199.08
Total Maintenance Structure & Grounds						
Memberships						
Bill	01/08/2024	California Employers As...	2/1/2024-7/31/2024	1,247.50	1,247.50	1,247.50
Total Memberships						
Office Expenses						
Bill	01/08/2024	Ricoh USA, Inc. COPIES	130 B&W; 1653 COLOR	89.02	89.02	89.02
Check	01/08/2024	Amazon	2 PK RED PENS; 4 X COFFEE; 5 REAM CS PAPER	134.32	134.32	223.34
Bill	01/22/2024	Ricoh USA, Inc.	MONTHLY COPIER LEASE	202.67	202.67	426.01
Check	01/23/2024	Amazon	2X 24CT COFFEE CREAMER; 2X SHINY REPLACEMENT PAD B...	19.92	19.92	445.93
Check	01/26/2024	Intuit	1 YEAR QUICKBOOKS 2024 SUBSCRIPTION	615.31	615.31	1,061.24
Check	01/29/2024	United States Post Office	BRUSH 1-1 TRASH PUMP POSTAGE	11.40	11.40	1,072.64
Total Office Expenses						
Professional Services						
Bill	01/08/2024	ESO Solutions, Inc.	FIRE PKG; GOOGLE MAPS; CAD; NEMESIS 3 UPGRADE	2,799.79	2,799.79	2,799.79
Check	01/16/2024	Auriga Technology, LLC	MONTHLY SERVICE	467.62	467.62	3,267.41
Check	01/18/2024	Auriga Technology, LLC	SEPT - 2.5 HRS HELPDESK WINDOWS STARTUP ISSUE, RESIZ...	48.93	48.93	3,316.34
Check	01/18/2024	Auriga Technology, LLC	SEPT - MONTHLY SERVICE	467.62	467.62	3,783.96
Total Professional Services						
Small Tools & Equipment						
Check	01/02/2024	StreamLight	STREAMLIGHT SERVICE; 2 12V BATTERY	79.34	79.34	79.34
Check	01/10/2024	Lowe's Home Improvem...	5 X HEAVY DUTY TOTE	52.59	52.59	131.93
Check	01/16/2024	Amazon	EMS BAGS - 12 SETS CARABINER CLIPS	32.84	32.84	164.77
Check	01/21/2024	Amazon	EXTRA LARGE KEY LOCK BOX	18.41	18.41	183.18
Bill	01/22/2024	Life-Assist	1 PK NARCAN NASAL SPRY; 2PK EPINEPHRINE CHILD; 2PK E...	1,174.82	1,174.82	1,358.00
Total Small Tools & Equipment						
Utilities						
Check	01/02/2024	Conexwest	MONTHLY STORAGE CONTAINER LEASE	85.12	85.12	85.12

Escalon Consolidated Fire Protection District
Profit & Loss Detail
 January 2024

10:28 AM
 02/05/24
 Cash Basis

Type	Date	Name	Memo	Original Amou...	Paid Amo...	Balance
Bill	01/08/2024	Verizon Wireless	MONTHLY SERVICE	120.43	120.43	205.55
Bill	01/08/2024	Gilton Solid Waste	MONTHLY SERVICE	247.36	247.36	452.91
Bill	01/08/2024	City of Escalon	MONTHLY SERVICE	200.39	200.39	653.30
Bill	01/22/2024	PG&E 1	STATION 1	1,481.67	1,481.67	2,134.97
Bill	01/22/2024	Alhambra	MONTHLY SERVICE	157.95	157.95	2,292.92
Check	01/23/2024	PG&E 2	STATION 2	72.20	72.20	2,365.12
Bill	01/30/2024	DIRECTV	MONTHLY SERVICE	184.99	184.99	2,550.11
Check	01/30/2024	Conexwest	MONTHLY STORAGE CONTAINER LEASE	85.12	85.12	2,635.23
Total Utilities					2,635.23	2,635.23
Total Expense					30,878.35	30,878.35
Net Ordinary Income					-30,878.35	-30,878.35
Other Income/Expense						
Other Income						
Interest Credit						
Deposit	01/31/2024		Interest	740.02	740.02	740.02
Total Interest Credit					740.02	740.02
Total Other Income					740.02	740.02
Net Other Income					740.02	740.02
Net Income					-30,138.33	-30,138.33

Escalon Consolidated Fire Protection District
Profit & Loss Budget vs. Actual
July 2023 through January 2024

	Jul '23 - Jan 24	Budget	\$ Over Budget	% of Budget
Ordinary Income/Expense				
Expense				
Cafeteria Plan Medical	0.00	7,200.00	-7,200.00	0.0%
Capital Expense	65,114.27	128,354.00	-63,239.73	50.7%
Communications	20,860.70	41,000.00	-20,139.30	50.9%
Contingencies	0.00	70,000.00	-70,000.00	0.0%
Employee Expenses	0.00	989,715.00	-989,715.00	0.0%
Fire Prevention	2,920.29	3,500.00	-579.71	83.4%
Firefighter Safety Gear	10,855.79	16,500.00	-5,644.21	65.8%
Fuel	12,463.59	16,200.00	-3,736.41	76.9%
Health Insurance	86,376.31	140,000.00	-53,623.69	61.7%
Household	14,929.00	28,000.00	-13,071.00	53.3%
Insurance Casualty	28,631.91	26,000.00	2,631.91	110.1%
Maintenance	15,750.87	30,000.00	-14,249.13	52.5%
Maintenance Structure & Grounds	2,114.91	8,000.00	-5,885.09	26.4%
Medi-Care	0.00	10,295.00	-10,295.00	0.0%
Memberships	7,298.44	2,200.00	5,098.44	331.7%
Miscellaneous Expense	232.09	2,000.00	-1,767.91	11.6%
New Equipment	289.85	9,000.00	-8,710.15	3.2%
Office Expenses	4,023.82	10,000.00	-5,976.18	40.2%
Overtime	0.00	64,000.00	-64,000.00	0.0%
Professional Services	11,803.53	30,000.00	-18,196.47	39.3%
Publications and Legal Notices	0.00	500.00	-500.00	0.0%
Retirement	65,127.03	67,200.00	-2,072.97	96.9%
Salaries	526,474.39	646,000.00	-119,525.61	81.5%
Small Tools & Equipment	13,988.81	7,000.00	6,988.81	199.8%
Social Security (FICA)	0.00	44,020.00	-44,020.00	0.0%
Special Accounting Reports	12,704.14	2,000.00	10,704.14	635.2%
Special Departmental Expenses	0.00	6,000.00	-6,000.00	0.0%
Structure Improvements	288.34	7,000.00	-6,711.66	4.1%
Tax Administration Charges	0.00	21,000.00	-21,000.00	0.0%
Taxes & Assessments	0.00	1,000.00	-1,000.00	0.0%
Training & Transportation	1,410.40	13,000.00	-11,589.60	10.8%
Unemployment Comp EDD	0.00	11,000.00	-11,000.00	0.0%
Utilities	18,670.56	19,000.00	-329.44	98.3%
Workers Compensation Insurance	41,972.50	74,000.00	-32,027.50	56.7%
Total Expense	964,301.54	2,550,684.00	-1,586,382.46	37.8%
Net Ordinary Income	-964,301.54	-2,550,684.00	1,586,382.46	37.8%
Other Income/Expense				
Other Expense				
Grants				
Special District COVID-19 Relie	24,603.32	490,090.50	-465,487.18	5.0%
Total Grants	24,603.32	490,090.50	-465,487.18	5.0%
Total Other Expense	24,603.32	490,090.50	-465,487.18	5.0%
Net Other Income	-24,603.32	-490,090.50	465,487.18	5.0%
Net Income	-988,904.86	-3,040,774.50	2,051,869.64	32.5%

Rick Mello

From: Moe Silva
Sent: Saturday, February 3, 2024 7:07 PM
To: Rick Mello
Subject: Fwd: Fire Station tower inspection

Get [Outlook for iOS](#)

From: Mathew Ford <mathew@ayera.com>
Sent: Saturday, February 3, 2024 7:06:09 PM
To: Moe Silva <msilva@escalonfire.com>
Cc: Tina Davis <tina@ayera.com>
Subject: Fire Station tower inspection

You don't often get email from mathew@ayera.com. [Learn why this is important](#)

Moe,

FYI, we were out this afternoon (Saturday, 2/3//2024) and inspected the station's 80' rooftop mast and guy wires prior to the storm and winds coming in overnight and through tomorrow. All looks good... guy wire tensioning is good and all eight guy anchor mounts are solid and secure.

All the Best,

Mathew Ford

CEO

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209.579.3000 ext. 301 or 888.AYERA.55
Fax 888.AYERA.85
mathew@ayera.com

Chief's Report

February 2024

Emergency Responses

January 2023

- Medical Aid 58
- Public Service Assist 8
- Vehicle Accidents 13
- Vegetation Fires 0
- Structure Fires 3
- Vehicle Fires 0
- Other Incidents 13

○ Total For Month: 95

Total Jan 23: 98

○ Total for 2024: 95

Total for 2022: 98

C-Shift Monthly Report
Training Division and Reserve/Volunteer Program

January Drills

1-9-24	Advancing Fire Attack Lines	(7 participants)
1-17-24	MCI Training (New Equipment)	(10 participants)
1-25-24	Simulated Fire Attack	(11 participants)

We currently have 7 reserve applications that we will be reviewing and setting up interviews in the coming weeks.

We are looking at offering an in-house Driver/Operator 1B in April or May. The class focuses on pump operations.

We will look into offering the Driver/Operator 1A class as some of our new reserves get more experienced in firefighting.

Prevention:

Public Safety Education: Our outreach to the K-6 community at our local schools occurred in October. This event coincides with Fire Prevention Week and is a huge success.

Smoke Detector Battery Replacement: Every fall crews replaces the batteries in smoke detectors for the elderly and physically disabled. This past year 22 homes were serviced through this program.

Fire Prevention: Several new projects were submitted by the City for approval. Most notably, McDonalds. Orlandos Market also captured lots of attention from the community. Both businesses have been hugely successful and bring lots of new business to town.

Fire Inspections: A new online data storage was created to store all of our Inspection data. This paperless system will save cost on printing and paper, as well as ease of retrieving data.

Fire Investigation: We now have four trained fire investigators on the roster. These four firefighters will share day to day response coverage.

Weed Abatement: Every spring presents a challenge in preparing for "fire season". As seasonal grasses begin to dry we try to identify areas of concern. This past year was especially challenging as high rainfall amounts led to a tall grasses. An early die off, spring rain led to a second growth, and a second die off led to a late cutting season. The weed abatement went deeper into the fire season but we were able to avoid any major incident that resulted in structures being destroyed. We anticipate the same pattern this spring.

Apparatus and Equipment

- E 1-1 went to Burton's for repairs.

Buildings and Grounds

- Bids for the Station 1 solar project have been received.
- New washer and dryer units (dual stackable) have been installed and are in service.

San Joaquin County Fire Chief's Association

- Meeting 2-7-24, general business.

San Joaquin County Radio Users Group

- Meeting 1-17-24, meeting canceled.

Miscellaneous

- We have received ten Motorola APX 8500 mobile radios as part of multiple grants and other funding from San Joaquin County. Costs for the radios were approximately \$ 93,000.00, with no District funds expended.

- We are part of a Regional Office of Traffic Safety (OTS) grant for extrication equipment. The grant is being hosted by French Camp Fire and includes Escalon, Montezuma and Ripon. Our request is for three sets of e-draulic extrication tools and stabilization equipment. The total grant request is for \$ 403,000.00. This is a zero-match grant, so no District funds will be used.
- The Appreciation Dinner is tentatively scheduled for Friday, April 26 at the Escalon Azores Band Hall.

2023 INCIDENT BREAKDOWN

Month	Total	Medical	MVA	Fires	Misc.
Jan.	98	64	7	3	24
Feb.	79	51	7	3	18
Mar.	111	63	11	7	30
Apr.	96	59	8	1	28
May	109	69	5	5	30
Jun.	91	42	9	9	31
Jul.	108	55	14	16	23
Aug.	117	71	12	5	29
Sep.	93	48	15	5	25
Oct.	106	69	15	6	16
Nov.	104	65	8	5	26
Dec.	108	74	12	10	12
Total	1,220	730	123	75	292

Busiest Month: August (117)

Slowest Month: February (79)

Percentage of Medical Aids: 59.8%

Busiest Month for Fires: July (16)

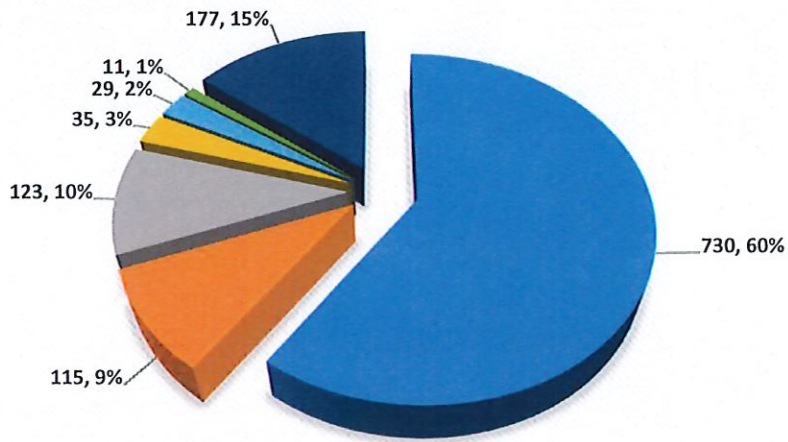
Busiest Month for MVA's: September/October (15)

Busiest Month for Medical Aids: August (71)

Total Incidents for 2022: 1,193

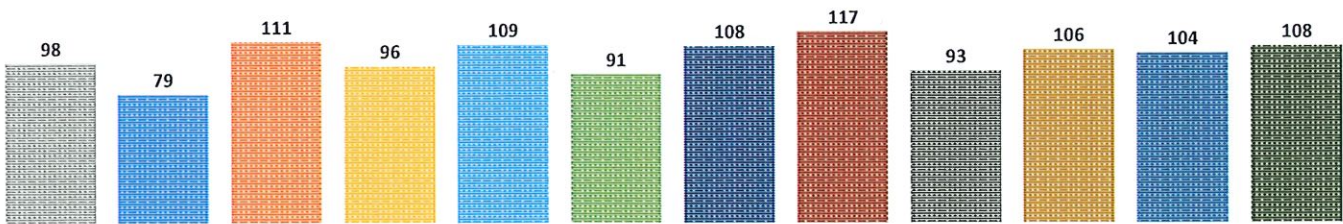
2023	TOTAL
MED AID	730
PSA (LIFT ASSIST; LOCK OUT)	115
MVA	123
VEG	35
STX	29
VEH	11
OTHER	177
TOTAL	1220

2023 Call Type Totals



■ MED AID ■ PSA (LIFT ASSIST; LOCK OUT) ■ MVA ■ VEG ■ STX ■ VEH ■ OTHER

2023 Calls Per Month



■ JANUARY ■ FEBRUARY ■ MARCH ■ APRIL ■ MAY ■ JUNE ■ JULY ■ AUGUST ■ SEPTEMBER ■ OCTOBER ■ NOVEMBER ■ DECEMBER

Operations and Maintenance

2023 Annual Report

I have completed my third year in the Operations and Maintenance Division along with Firefighter/Engineer Cassidy Bohannon. During this last year, the maintenance division has completed consistent preventative maintenance for safe and efficient day-to-day operations. We oversee our operations each day, finding ways to make improvements where needed. This last year we were awarded grant money and with those funds, we could purchase SCBA's, and a new Bauer Compressor. We are currently working on other projects with the remaining grant funding.

Programs that were maintained during 2023

- Annual pump testing for all apparatus.
- Annual servicing and testing of Cascade compressor for filling SCBA bottles.
- Quarterly inspections of all apparatus performed by the maintenance shift.
- Annual ladder testing.
- Annual PPE inspection.
- Annual SCBA testing and maintenance.
- Annual auto extrication equipment service.

Projects that were accomplished during 2023

- New SCBA's
- Remodel of the upstairs bathroom and additional second bathroom
- New Bauer Compressor

Projects to be accomplished during 2023.

- Continued work on operational guidelines for the fire district.
- Implement annual maintenance recording measures on Emergency Reporting Software.
- Continuing to implement adequate record-keeping for PPE.
- Solar project for Station 1
- Alerting system for Station 1
- Two new stackable washers and dryers for the back bays that included new plumbing and electrical work.

- Possible new auto extrication tools with funding from an OTS grant (pending funding)

Respectfully submitted by
Moe Silva
B-Shift Battalion Chief
Operations and Maintenance

Training Division 2023 Annual Report

Training for 2023 was another productive year but not without its struggles. We have struggled to maintain our reserve numbers. The fire service has seen a rise in hiring career staff and so as we train our personnel, we lose them to departments hiring. Escalon has always been a training ground. It is bittersweet when you see how many people, we have trained go out prove themselves at other departments. The new generation is a difficult one to figure out and so we must change the way we look at things and train the ways that work for them. We have a dedicated career staff and reserve pool that will continue to improve our training division.

Name	Drill Hours	Target Solution Hours	External Classes
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

* Attended Fire Academy

2024 Training Goals

- Complete the creating the annual task books.
- Update annual training calendar to focus on training needs.
- Continue to use and improve on the use of Target Solutions.
- Identify training needs for the district.

Reserve and Volunteer Program

The reserve and volunteer program has gone through some bumps and changes throughout 2023. We gained some new faces and lost a lot of our experienced members due to changes in their lives. We are working in a difficult time now trying to find new members to be part of the fire service. We have a good core group, and we are up to the challenges that are thrown our way.

2024 Reserve and Volunteer Goals

Improve accountability throughout the group.

Improve teamwork and communication within the group.

Improve morale within the group.

Provide feedback to the reserves and volunteers through personnel evaluations.

Fire Investigation Unit

It was a building year for the Fire Investigation Unit. We have 4 investigators that have investigation classes, the Arrest and firearms classes. Our lead investigator Firefighter Engineer Burr attended an Interview and Interrogation class and brought back some information to share with the unit. We had 4 working structure fires that were investigated in 2023.

Respectfully submitted by
Joe Pelot
C-shift Battalion Chief
Training Division

Cal-Valley Electric CSL# 1023335
 PO. BOX 858
 Knights Ferry CA, 95361
 (209)496-5111
 Calvalley102@gmail.com

Estimate

Name/Address
Escalon Fire Dpt. Station 1 1749 Coley Ave Escalon CA,95320



Date	Estimate No.	Project
12/02/22	5	

Item	Description	Quantity	Cost	Total
PV System	30KW PV roof mount solar (76) Qcell mono panels (4) solaredge inverters (76) p401 optimizers Estimated start date 2/22 Estimated completion 3/22		46,000.00	46,000.00
22 Specialty	Roof mount material iron ridge flashing mounts iron ridge Lfeet iron ridge racking rail iron ridge clamps & hardware		11,800.00	11,800.00
09 Roof Flashing	Roofing sub-contractor, Flashing torch down labor & material		5,500.00	5,500.00
Electrical Part	Wire, breakers, disconnects, conduit pipe, connectors couplings straps, roof dura block		9,300.00	9,300.00
01 Plans and Permits	Plans and Permits		6,500.00	6,500.00
Labor	Electricians labor Sales Tax		26,378.00 0.00%	26,378.00 0.00
Thank you for your business			Total	\$105,478.00

Transform ENERGY

Prepared For
Escalon Fire Department
209.681.7695
dmorriss@escalonfire.com



Transform Energy is a leading provider of Commercial, Agricultural, and Non-Profit solar systems in California. Transform Energy services some of the world's largest growers, processors, wineries, and churches. At Transform Energy we use 4 simple principles to ensure that we always meet the expectations of you, our valued customer.

Integrity: *Do the right thing.*

Quality: *Provide excellent components and construction that stand the test of time.*

Service: *Meet the customer's needs today, tomorrow, and for life.*

Value: *The most savings for the money.*

Escalon Fire Department

Prepared By
Transform Energy
209.809.1300
todd.filbrun@transformenergy.com

12/7/2023



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 - 4.1 Cash Purchase 9



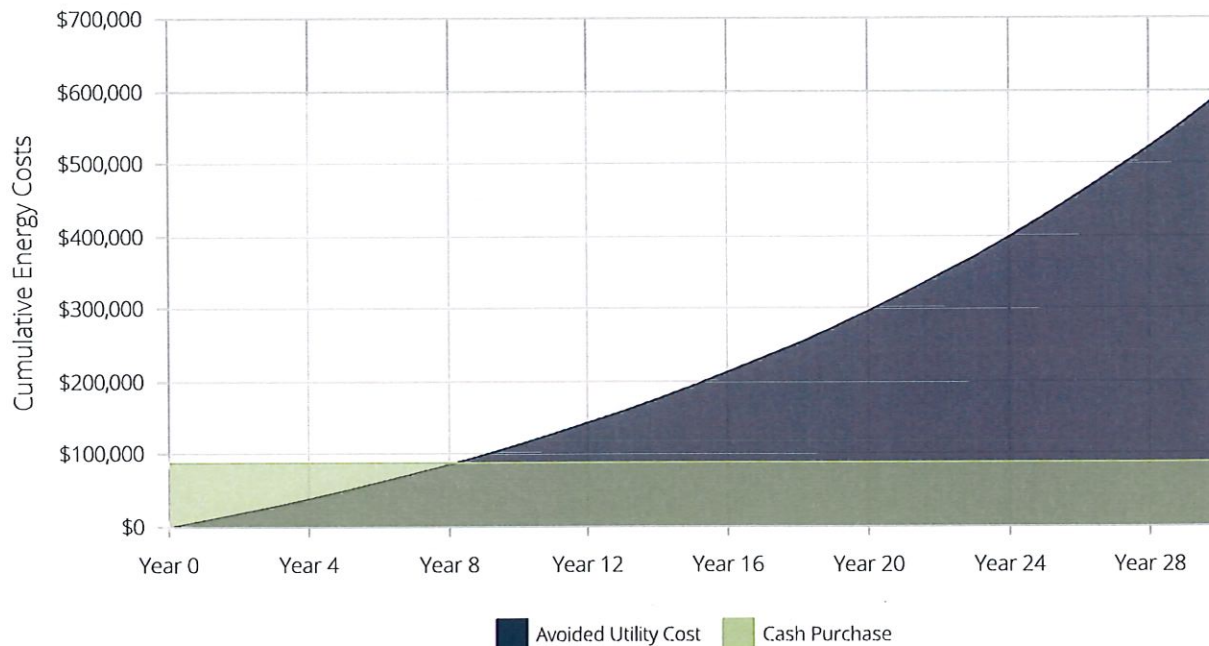
1 Project Summary

Payment Options	Cash Purchase
IRR - 10 Year	4.4%
IRR - Term	14.4%
Net Present Value	\$167,070
Payback Period	8.2 Years
Total Incentives	\$0
Electric Bill Savings - Year 1	\$9,007
Electric Bill Savings - Term	\$592,566
Net Payments	\$88,359
Initial Payment	\$88,359
LCOE PV Generation	\$0.068 /kWh

Combined Solar PV Rating

Power Rating: 30,380 W-DC
 Power Rating: 28,180 W-AC-CEC

Cumulative Energy Costs By Payment Option



2.1.1 PV System Details

General Information

Facility: Meter #1
 Address: 1749 Coley Ave Escalon CA 95320

Solar PV System Rating

Power Rating: 30,380 W-DC
 Power Rating: 28,180 W-AC-CEC

Solar PV Equipment Description

Solar (62) Hanwha Q-Cells Q.PEAK DUO XL-G10.3/BFG
 Panels: 490
 Inverters: (1) SolarEdge SE33.3K

Energy Consumption Mix

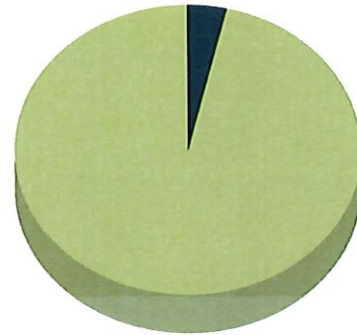
Annual Energy Use: 48,713 kWh

Solar PV Equipment Typical Lifespan

Solar Panels: Greater than 30 Years
 Inverters: 14 Years

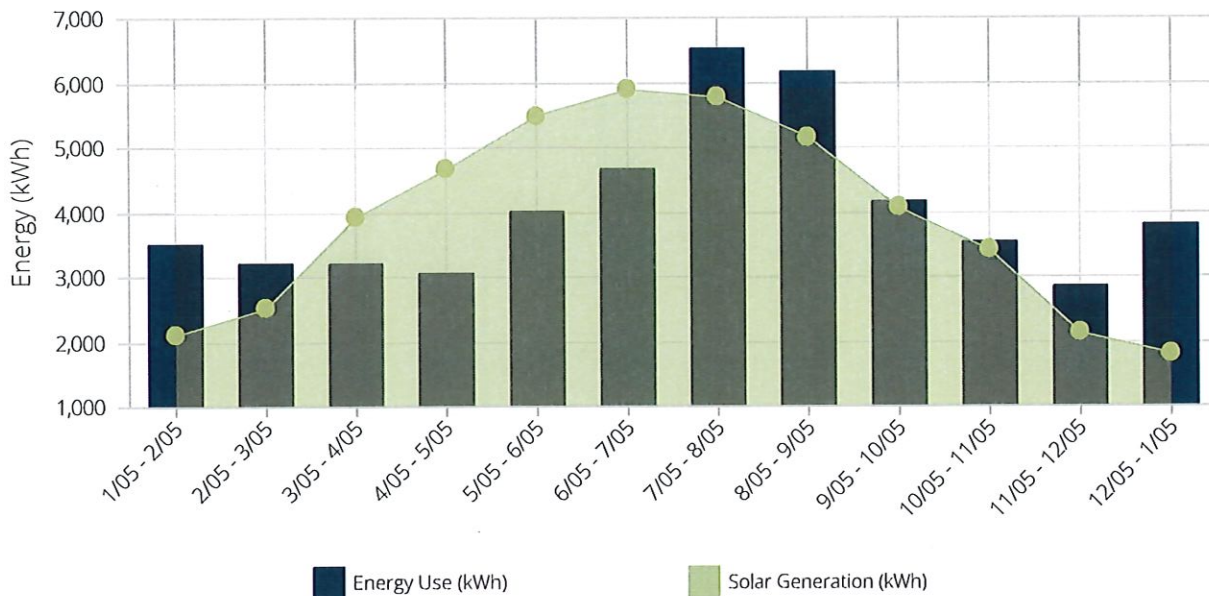
Solar PV System Cost and Incentives

Solar PV System Cost	\$88,359
Net Solar PV System Cost	\$88,359



Utility	1,797 kWh (3.69%)
Solar PV	46,916 kWh (96.31%)

Monthly Energy Use vs Solar Generation



2.1.2 Rebates and Incentives

This section summarizes all incentives available for this project. The actual rebate and incentive amounts for this project are shown in each example.

2.1.3 Utility Rates

You have the option to remain on your current rate schedule (B-1 (Pacific Gas & Electric)) or switch to an alternative rate schedule (B-1 (Pacific Gas & Electric NEM 3.0)). The rates for each are shown below and your estimated electric bills are shown on the following page for each rate schedule.

Customer Charges					Energy Charges				
Season	Charge Type	Rate Type	B-1, CARE: False, PDP: False	B-1, PDP: True	Season	Charge Type	Rate Type	B-1, CARE: False, PDP: False	B-1, PDP: True
W1	Flat Rate	per day	\$0.82	\$0.82	W1	On Peak	Import	\$0.35654	\$0.35654
W2	Flat Rate	per day	\$0.82	\$0.82	W1	Off Peak	Import	\$0.34043	-
S	Flat Rate	per day	\$0.82	\$0.82	W2	On Peak	Import	\$0.35654	\$0.35654
					W2	Off Peak	Import	\$0.34043	-
					W2	Super Off Peak	Import	\$0.32401	-
					S	On Peak	Import	\$0.43197	\$0.43197
					S	Part Peak	Import	\$0.38274	-
					S	Off Peak	Import	\$0.36194	-
					W1	Off-Peak	Import	-	\$0.34043
					W1	Critical Peak	Import	-	\$0.60
					W2	Off-Peak	Import	-	\$0.34043
					W2	Super Off-Peak	Import	-	\$0.32401
					W2	Critical Peak	Import	-	\$0.60
					S	Part-Peak	Import	-	\$0.38274
					S	Off-Peak	Import	-	\$0.36194
					S	Critical Peak	Import	-	\$0.60

2.1.4 Current Electric Bill

The table below shows your annual electricity costs based on the most current utility rates and your previous 12 months of electrical usage.

Rate Schedule: PG&E - B-1 (Pacific Gas & Electric)

Time Periods Bill Ranges & Seasons	Energy Use (kWh)				Charges			
	On Peak	Part Peak	Off Peak	Super Off Peak	Other	NBC	Energy	Total
1/5/2023 - 2/5/2023 W1	764	-	2,757	-	\$25	\$111	\$1,100	\$1,236
2/5/2023 - 3/5/2023 W1 / W2	661	-	2,433	114	\$23	\$101	\$1,000	\$1,124
3/5/2023 - 4/5/2023 W2	649	-	1,778	783	\$25	\$101	\$989	\$1,116
4/5/2023 - 5/5/2023 W2	719	-	1,678	648	\$25	\$96	\$942	\$1,062
5/5/2023 - 6/5/2023 W2 / S	1,107	117	2,070	725	\$25	\$127	\$1,272	\$1,424
6/5/2023 - 7/5/2023 S	1,335	956	2,387	-	\$25	\$147	\$1,659	\$1,831
7/5/2023 - 8/5/2023 S	1,882	1,342	3,283	-	\$25	\$205	\$2,310	\$2,540
8/5/2023 - 9/5/2023 S	1,730	1,285	3,141	-	\$25	\$194	\$2,182	\$2,401
9/5/2023 - 10/5/2023 S / W1	1,118	745	2,292	-	\$25	\$131	\$1,451	\$1,607
10/5/2023 - 11/5/2023 W1	837	-	2,715	-	\$25	\$112	\$1,111	\$1,248
11/5/2023 - 12/5/2023 W1	621	-	2,224	-	\$25	\$90	\$889	\$1,003
12/5/2022 - 1/5/2023 W1	841	-	2,974	-	\$25	\$120	\$1,192	\$1,338
Total	12,264	4,445	29,732	2,270	\$300	\$1,534	\$16,097	\$17,931

2.1.5 New Electric Bill

Rate Schedule Option 1: PG&E - B-1 (Pacific Gas & Electric)

Time Periods Bill Ranges & Seasons	Energy Use (kWh)				Charges			
	On Peak	Part Peak	Off Peak	Super Off Peak	Other	NBC	Energy	Total
1/5/2023 - 2/5/2023 W1	683	-	734	-	\$25	\$76	\$449	\$550
2/5/2023 - 3/5/2023 W1 / W2	521	-	411	-239	\$23	\$64	\$227	\$313
3/5/2023 - 4/5/2023 W2	94	-	672	-1,478	\$25	\$54	\$194	\$114
4/5/2023 - 5/5/2023 W2	-35	-	311	-1,889	\$25	\$49	\$468	\$394
5/5/2023 - 6/5/2023 W2 / S	95	-41	240	-1,763	\$25	\$57	\$425	\$342
6/5/2023 - 7/5/2023 S	169	-280	-1,098	-	\$25	\$62	\$393	\$307
7/5/2023 - 8/5/2023 S	742	129	-137	-	\$25	\$94	\$297	\$417
8/5/2023 - 9/5/2023 S	790	124	83	-	\$25	\$95	\$387	\$508
9/5/2023 - 10/5/2023 S / W1	543	-107	-343	-	\$25	\$70	\$62	\$156
10/5/2023 - 11/5/2023 W1	496	-	-353	-	\$25	\$64	\$52	\$142
11/5/2023 - 12/5/2023 W1	591	-	129	-	\$25	\$60	\$232	\$316
12/5/2022 - 1/5/2023 W1	815	-	1,188	-	\$25	\$87	\$632	\$745
Total	5,504	-175	1,837	-5,369	\$300	\$833	\$857	\$1,990

New Rate Schedule Option 2: PG&E - B-1 (Pacific Gas & Electric NEM 3.0)

Time Periods Bill Ranges & Seasons	Energy Use (kWh)					Charges			
	On Peak	Part-Peak	Off-Peak	Super Off-Peak	Critical Peak	Other	NBC	Energy	Total
1/5/2023 - 2/5/2023 W1	683	-	734	-	0	\$25	\$76	\$720	\$821
2/5/2023 - 3/5/2023 W1 / W2	521	-	411	-239	0	\$23	\$64	\$604	\$691
3/5/2023 - 4/5/2023 W2	94	-	672	-1,478	0	\$25	\$54	\$509	\$589
4/5/2023 - 5/5/2023 W2	-35	-	311	-1,889	0	\$25	\$49	\$460	\$533
5/5/2023 - 6/5/2023 W2 / S	95	-41	240	-1,763	0	\$25	\$57	\$496	\$578
6/5/2023 - 7/5/2023 S	108	-280	-1,098	-	61	\$25	\$60	\$525	\$610
7/5/2023 - 8/5/2023 S	602	129	-137	-	140	\$25	\$90	\$939	\$1,054
8/5/2023 - 9/5/2023 S	711	124	83	-	79	\$25	\$93	\$944	\$1,062
9/5/2023 - 10/5/2023 S / W1	543	-107	-343	-	0	\$25	\$70	\$654	\$748
10/5/2023 - 11/5/2023 W1	496	-	-353	-	0	\$25	\$64	\$563	\$653
11/5/2023 - 12/5/2023 W1	591	-	129	-	0	\$25	\$60	\$551	\$635
12/5/2022 - 1/5/2023 W1	815	-	1,188	-	0	\$25	\$87	\$836	\$948
Total	5,224	-175	1,837	-5,369	280	\$300	\$824	\$7,800	\$8,924

Annual Electricity Savings: \$9,007



3.1 Cash Purchase

Assumptions and Key Financial Metrics

IRR - Term	14.4%	Net Present Value	\$167,070	Payback Period	8.2 Years
ROI	570.6%	Total Incentives	\$0	Total Payments	\$88,359
Net Payments	\$88,359	PV Degradation Rate	0.50%	Energy Cost Escalation Rate	5.5%
Federal Income Tax Rate	25.0%	State Income Tax Rate	8.0%	Total Inverter Replacement Cost	\$88,359
Total Project Cost	\$88,359				

Years	Project Cost	Electric Bill Savings	Total Cash Flow	Cumulative Cash Flow
Upfront	-\$88,359	-	-\$88,359	-\$88,359
1	-	\$9,007	\$9,007	-\$79,352
2	-	\$9,455	\$9,455	-\$69,897
3	-	\$9,925	\$9,925	-\$59,973
4	-	\$10,418	\$10,418	-\$49,555
5	-	\$10,935	\$10,935	-\$38,620
6	-	\$11,477	\$11,477	-\$27,143
7	-	\$12,047	\$12,047	-\$15,096
8	-	\$12,644	\$12,644	-\$2,453
9	-	\$13,270	\$13,270	\$10,817
10	-	\$13,927	\$13,927	\$24,744
11	-	\$14,616	\$14,616	\$39,360
12	-	\$15,339	\$15,339	\$54,698
13	-	\$16,097	\$16,097	\$70,795
14	-	\$16,892	\$16,892	\$87,687
15	-	\$17,725	\$17,725	\$105,412
16	-	\$18,600	\$18,600	\$124,011
17	-	\$19,517	\$19,517	\$143,528
18	-	\$20,478	\$20,478	\$164,006
19	-	\$21,486	\$21,486	\$185,492
20	-	\$22,543	\$22,543	\$208,036
21	-	\$23,652	\$23,652	\$231,688
22	-	\$24,814	\$24,814	\$256,502
23	-	\$26,033	\$26,033	\$282,535
24	-	\$27,310	\$27,310	\$309,845
25	-	\$28,650	\$28,650	\$338,495
26	-	\$30,054	\$30,054	\$368,548
27	-	\$31,525	\$31,525	\$400,073
28	-	\$33,068	\$33,068	\$433,141
29	-	\$34,685	\$34,685	\$467,827
30	-	\$36,380	\$36,380	\$504,207
Totals:	-\$88,359	\$592,566	\$504,207	-

4.1 Cash Purchase

Assumptions and Key Financial Metrics

IRR - Term	14.4%	Net Present Value	\$167,070	Payback Period	8.2 Years
ROI	570.6%	Total Incentives	\$0	Total Payments	\$88,359
Net Payments	\$88,359	PV Degradation Rate	0.50%	Energy Cost Escalation Rate	5.5%
Federal Income Tax Rate	25.0%	State Income Tax Rate	8.0%	Total Inverter Replacement Cost	\$88,359
Total Project Cost	\$88,359				

Years	Upfront	1	2	3	4	5	6	7	8	9	10	11	12	13
Cash														
Project Cost														
Electric Bill Savings		\$9,007	\$9,455	\$9,925	\$10,418	\$10,935	\$11,477	\$12,047	\$12,644	\$13,270	\$13,927	\$14,616	\$15,339	\$16,097
Cash Total		\$9,007	\$9,455	\$9,925	\$10,418	\$10,935	\$11,477	\$12,047	\$12,644	\$13,270	\$13,927	\$14,616	\$15,339	\$16,097
Total Cash Flow		\$9,007	\$9,455	\$9,925	\$10,418	\$10,935	\$11,477	\$12,047	\$12,644	\$13,270	\$13,927	\$14,616	\$15,339	\$16,097
Cumulative Cash Flow		-\$88,359	-\$79,352	-\$69,897	-\$59,973	-\$49,555	-\$27,143	-\$15,096	-\$2,453	\$10,817	\$24,744	\$39,360	\$54,698	\$70,795



4.1 Cash Purchase

Assumptions and Key Financial Metrics

IRR - Term	14.4%	Net Present Value	\$167,070	Payback Period	8.2 Years
ROI	570.6%	Total Incentives	\$0	Total Payments	\$88,359
Net Payments	\$88,359	PV Degradation Rate	0.50%	Energy Cost Escalation Rate	5.5%
Federal Income Tax Rate	25.0%	State Income Tax Rate	8.0%	Total Inverter Replacement Cost	\$88,359
Total Project Cost	\$88,359				

Years	14	15	16	17	18	19	20	21	22	23	24	25	26
Cash													
Project Cost	-	-	-	-	-	-	-	-	-	-	-	-	-
Electric Bill Savings	\$16,892	\$17,725	\$18,600	\$19,517	\$20,478	\$21,486	\$22,543	\$23,652	\$24,814	\$26,033	\$27,310	\$28,650	\$30,054
Cash Total	\$16,892	\$17,725	\$18,600	\$19,517	\$20,478	\$21,486	\$22,543	\$23,652	\$24,814	\$26,033	\$27,310	\$28,650	\$30,054
Total Cash Flow	\$16,892	\$17,725	\$18,600	\$19,517	\$20,478	\$21,486	\$22,543	\$23,652	\$24,814	\$26,033	\$27,310	\$28,650	\$30,054
Cumulative Cash Flow	\$87,687	\$105,412	\$124,011	\$143,528	\$164,006	\$185,492	\$208,036	\$231,688	\$256,502	\$282,535	\$309,845	\$338,495	\$368,548



4.1 Cash Purchase

Assumptions and Key Financial Metrics

IRR - Term	14.4%	Net Present Value	\$167,070	Payback Period	8.2 Years
ROI	570.6%	Total Incentives	\$0	Total Payments	\$88,359
Net Payments	\$88,359	PV Degradation Rate	0.50%	Energy Cost Escalation Rate	5.5%
Federal Income Tax Rate	25.0%	State Income Tax Rate	8.0%	Total Inverter Replacement Cost	\$88,359
Total Project Cost	\$88,359				

Years	27	28	29	30	Totals
Cash					
Project Cost	-	-	-	-	-\$88,359
Electric Bill Savings	\$31,525	\$33,068	\$34,685	\$36,380	\$592,566
Cash Total	\$31,525	\$33,068	\$34,685	\$36,380	\$504,207
Total Cash Flow	\$31,525	\$33,068	\$34,685	\$36,380	\$504,207
Cumulative Cash Flow	\$400,073	\$433,141	\$467,827	\$504,207	-



powered by

Q.ANTUM DUO Z

Q.PEAK DUO XL-G10.2

470-495

ENDURING HIGH
PERFORMANCE



BREAKING THE 21% EFFICIENCY BARRIER

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 21.6%.



LOW ELECTRICITY GENERATION COSTS

Higher yield per surface area, lower BOS costs and up to 80 watts more module power than standard 144 half-cell modules.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.



EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (3000 Pa).



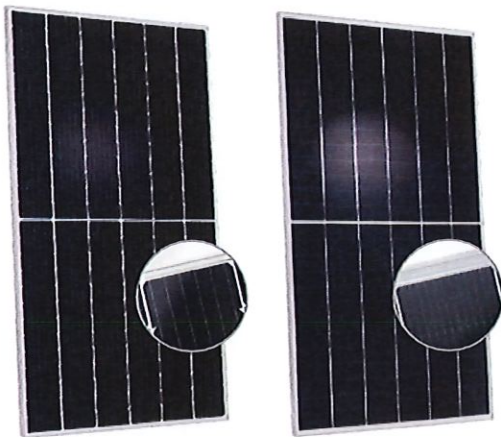
A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance warranty².



STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO combines cutting edge cell separation and innovative 12-busbar design with Q.ANTUM Technology.



6 BUSBAR
CELL TECHNOLOGY

12 BUSBAR
CELL TECHNOLOGY

¹ APT test conditions according to IEC/TS 62804-1:2015, method A (-1500V, 96h)

² See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:



Ground-mounted
solar power plants

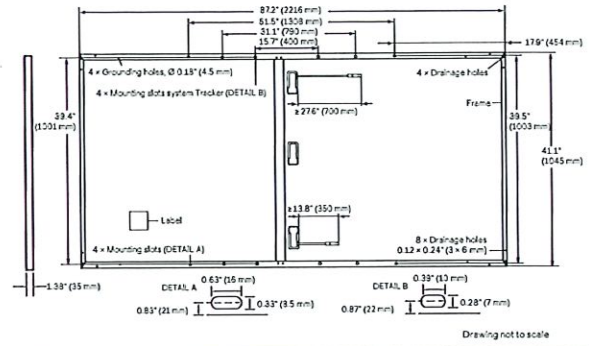
Engineered in Germany

Q CELLS

MECHANICAL SPECIFICATION

Format	87.2in × 41.1in × 1.38in (including frame) (2216mm × 1045mm × 35mm)
Weight	58.4lbs (26.5kg)
Front Cover	0.13in (3.2mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Anodized aluminum
Cell	6 × 26 monocrystalline Q.ANTUM solar half cells
Junction Box	2.09-3.98in × 1.26-2.36in × 0.59-0.71in (53-101mm × 32-60mm × 15-18mm), IP67, with bypass diodes
Cable	4 mm ² Solar cable; (+) ≥ 27.6in (700mm), (-) ≥ 13.8in (350mm)*
Connector	Stäubli MC4, Stäubli MC4-Evo2, Hanwha Q CELLS HQC4; IP68

*Long cables (+) ≥ 57.1in (1450mm), (-) ≥ 57.1in (1450mm) for landscape installation are available upon request.

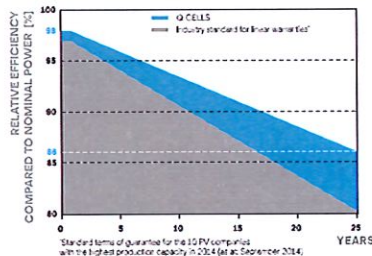


ELECTRICAL CHARACTERISTICS

POWER CLASS		470	475	480	485	490	495	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5W / -0W)								
Minimum	Power at MPP ¹	P_{MPP} [W]	470	475	480	485	490	495
	Short Circuit Current ¹	I_{SC} [A]	11.21	11.24	11.26	11.29	11.31	11.34
	Open Circuit Voltage ¹	V_{OC} [V]	53.54	53.58	53.61	53.64	53.68	53.71
	Current at MPP	I_{MPP} [A]	10.62	10.66	10.71	10.76	10.81	10.86
	Voltage at MPP	V_{MPP} [V]	44.27	44.54	44.81	45.07	45.33	45.59
	Efficiency ¹	η [%]	≥ 20.3	≥ 20.5	≥ 20.7	≥ 20.9	≥ 21.2	≥ 21.4
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ²								
Minimum	Power at MPP	P_{MPP} [W]	352.6	356.4	360.1	363.9	367.6	371.4
	Short Circuit Current	I_{SC} [A]	9.03	9.05	9.07	9.09	9.12	9.14
	Open Circuit Voltage	V_{OC} [V]	50.49	50.53	50.56	50.59	50.62	50.65
	Current at MPP	I_{MPP} [A]	8.34	8.39	8.43	8.47	8.52	8.56
	Voltage at MPP	V_{MPP} [V]	42.26	42.49	42.72	42.94	43.17	43.39

¹Measurement tolerances $P_{MPP} \pm 3\%$; I_{SC} ; $V_{OC} \pm 5\%$ at STC: 1000W/m², 25 ± 2°C, AM 1.5 according to IEC 60904-3 • 800W/m², NMOT, spectrum AM 1.5

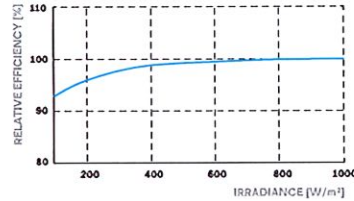
Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales organisation of your respective country.

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25°C, 1000W/m²)

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I_{SC}	α [%/K]	+0.04	Temperature Coefficient of V_{OC}	β [%/K]	-0.27
Temperature Coefficient of P_{MPP}	γ [%/K]	-0.34	Nominal Module Operating Temperature	NMOT [°F]	109 ± 5.4 (43 ± 3°C)

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V_{SYS}	[V]	1500 (IEC)/1500 (UL)	PV module classification	Class II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI / UL 61730	TYPE 1
Max. Design Load, Push / Pull ³	[lbs/ft ²]	75 (3600Pa) / 42 (2000Pa)	Permitted Module Temperature on Continuous Duty	-40°F up to +185°F (-40°C up to +85°C)
Max. Test Load, Push / Pull ³	[lbs/ft ²]	113 (5400Pa) / 63 (3000Pa)		

³See Installation Manual

QUALIFICATIONS AND CERTIFICATES

UL 61730, CE-compliant,
IEC 61215-2016,
IEC 61730 2016,
U.S. Patent No. 9,893,215
(solar cells).



PACKAGING INFORMATION

Horizontal packaging	89.4in 2270mm	43.3in 1100mm	47.6in 1210mm	1809lbs 821kg	22 pallets	20 pallets	29 modules

Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

Hanwha Q CELLS America Inc.

400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL inquiry@us.q-cells.com | WEB www.q-cells.us

Three Phase Inverter

For Europe

SE25K / SE30K / SE33.3K

INVERTERS



Specifically designed to work with power optimizers

- / Fixed voltage inverter for superior efficiency (98.3%) and longer strings
- / Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- / Small, lightest in its class, and easy to install
- / Integrated type 2 DC surge protection, to better withstand surges caused by lightning or other events
- / Optional RS485 and type 2 AC surge protection
- / Built-in module-level monitoring with Ethernet, wireless, or cellular communication for full system visibility
- / Advanced safety features - integrated arc fault protection and optional rapid shutdown
- / IP65 for outdoor and indoor installations
- / Optional integrated DC Safety Unit - eliminates the need for external DC isolators
- / Future-proofed for SolarEdge energy storage solutions

Three Phase Inverter

For Europe

SE25K / SE30K / SE33.3K

Applicable to inverters with part number	SEXK-RWX01XXXX			
	SE25K	SE30K	SE33.3K	
OUTPUT				
Rated AC Active Power Output	25000	29990	33300	W
Maximum AC Apparent Output Power	25000	29990	33300	VA
AC Output Voltage - Line to Line / Line to Neutral (Nominal)	380 / 220; 400 / 230			Vac
AC Output Voltage - Line to Line / Line to Neutral	304 - 437 / 176 - 253; 320 - 460 / 184 - 264.5			Vac
AC Frequency	50/60 ± 5%			Hz
Maximum Continuous Output Current (per Phase)	36,25	43,5	48,25	Aac
AC Output Line Connections	3W + PE, 4W + PE			
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes			
Total Harmonic Distortion	< 3			%
Power Factor Range	+/-0.2 to 1			
Maximum Residual Current Injection(1)	100			mA
INPUT				
Maximum DC Power (Module STC)	43750	52500	58275	W
Transformer-less, Ungrounded	Yes			
Maximum Input Voltage DC+ to DC-	1000			Vdc
Operating Voltage Range	680-1000			Vdc
Maximum Input Current	36,25	43,5	48,25	Adc
Reverse-Polarity Protection	Yes			
Ground-Fault Isolation Detection	167kΩ Sensitivity ⁽²⁾			
Maximum Inverter Efficiency	98,3			%
European Weighted Efficiency	98			%
Nighttime Power Consumption	< 4			W
ADDITIONAL FEATURES				
Supported Communication Interfaces	2 x RS485, Ethernet, Wi-Fi (optional) ⁽³⁾ , Cellular (optional)			
Smart Energy Management	Export Limitation			
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection			
Arc Fault Protection	Integrated, User Configurable (According to UL1699B)			
Rapid Shutdown	Optional ⁽⁴⁾ (Automatic upon AC Grid Disconnect)			
RS485 Surge Protection	Optional			
DC Surge Protection	Type II, field replaceable, integrated			
AC Surge Protection	Type II, field replaceable, optional			
DC SAFETY UNIT (OPTIONAL)				
2-pole Disconnection	1000V / 48,25A			
DC Fuses (Single Pole)	Optional, 25A			
Compliance	UTE-C15-712-1			
STANDARD COMPLIANCE				
Safety	IEC-62109, AS3100			
Grid Connection Standards ⁽⁵⁾	VDE-AR-N-4105, AS-4777, EN50438, CEI-021, VDE 0126-1-1, CEI-016, EN50549-1, EN50549-2, VDE-AR-N-4110, TOR Erzeuger Typ A, G99, G99 (NI), VFR 2019			
Emissions	IEC61000-6-2, IEC61000-6-3 Class A, IEC61000-3-11, IEC61000-3-12			
RoHS	Yes			
INSTALLATION SPECIFICATIONS				
AC Output Gland Diameter / Line cross section / PE cross section	Cable diameter 19-28 mm / 4 - 16 mm ² / 4 - 16 mm ²			
DC Input ⁽⁶⁾	4 MC4 pairs			
	4 MC4 pairs			
DC Input with Safety Unit ⁽⁶⁾⁽⁷⁾	4 Strings: Gland: Cable outer diameter 5 - 10 mm / Wire cross section 2,5 - 16 mm ²			
Dimensions (H x W x D)	550 x 317 x 273			mm
Dimensions with Safety Unit (H x W x D)	836 x 317 x 300 (DC MC4); 819 x 317 x 300 (DC Gland)			mm
Weight	32			kg
Weight with Safety Unit	36,5			kg
Operating Temperature Range	-40 to +60 ⁽⁸⁾			°C
Cooling	Fan (user replaceable)			
Noise	< 62			dBA
Protection Rating	IP65 - outdoor and indoor			
Mounting	Brackets provided			

(1) If an external RCD is required, its trip value must be ≥ 100mA.

(2) Where permitted by local regulations.

(3) Wi-Fi connectivity requires connection of an additional Wi-Fi component, ordered separately. For more details ask your SolarEdge salesperson or refer to: <https://www.solaredge.com/products/communication>.

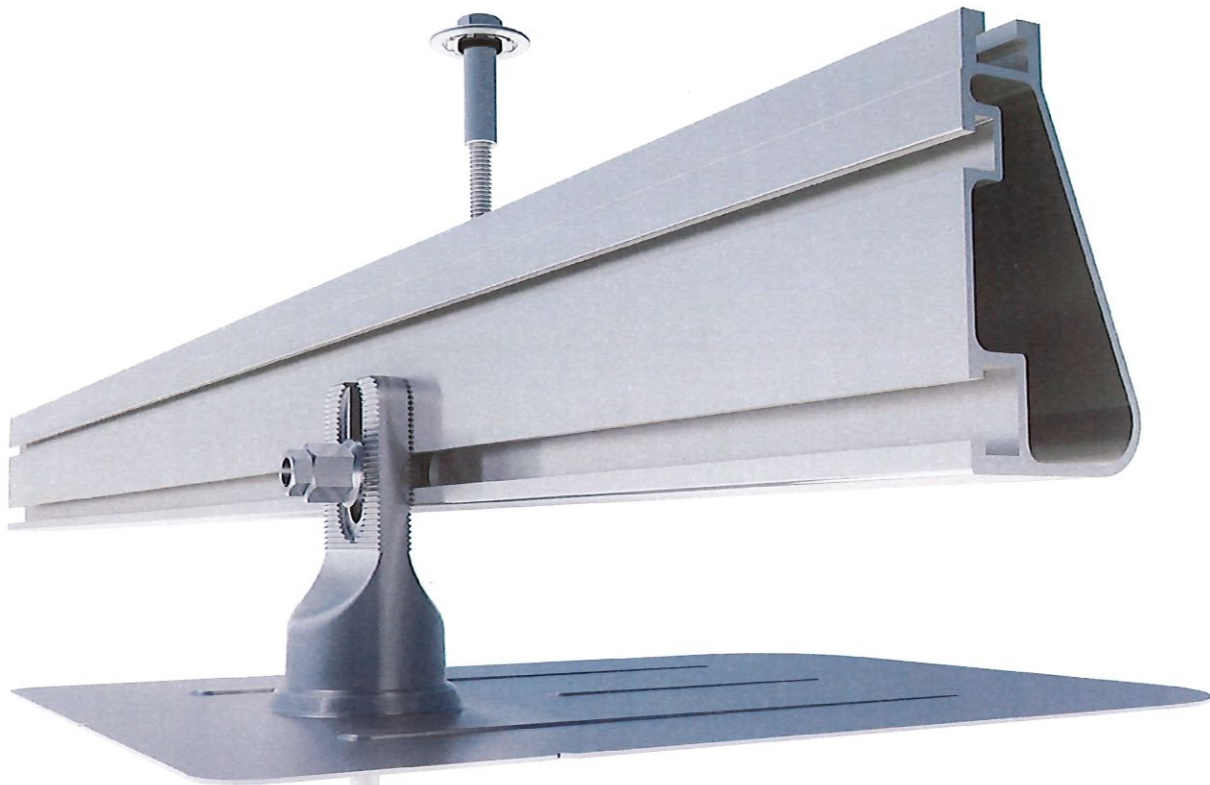
(4) Inverters with rapid shutdown part number: SEoK-xxxRxxxx.

(5) For all standards refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>.

(6) DC input is available with MC4 or Gland connectors under the inverter part number. For more information, contact SolarEdge.

(7) Only MC4 connectors manufactured by Staubli are approved for use.

(8) For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf>.



Built for solar's toughest roofs.

IronRidge builds the strongest mounting system for pitched roofs in solar. Our components have been tested to the limit and proven in extreme environments, including Florida's high-velocity hurricane zones.

Our rigorous approach has led to unique structural features, such as curved rails and reinforced flashings, and is also why our products are fully certified, code compliant and backed by a 25-year warranty.



Strength Tested

All components evaluated for superior structural performance.



PE Certified

Pre-stamped engineering letters available in most states.



Class A Fire Rating

Certified to maintain the fire resistance rating of the existing roof.



Design Assistant

Online software makes it simple to create, share, and price projects.



UL 2703 Listed System

Entire system and components meet newest effective UL 2703 standard.



25-Year Warranty

Products guaranteed to be free of impairing defects.

XR Rails ☺

XR10 Rail



A low-profile mounting rail for regions with light snow.

- 6' spanning capability
- Moderate load capability
- Clear and black finish

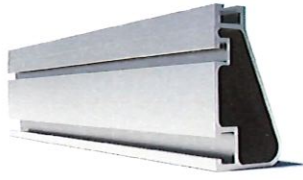
XR100 Rail



The ultimate residential solar mounting rail.

- 8' spanning capability
- Heavy load capability
- Clear and black finish

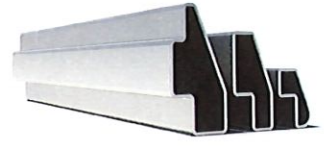
XR1000 Rail



A heavyweight mounting rail for commercial projects.

- 12' spanning capability
- Extreme load capability
- Clear anodized finish

BOSS™ Bonded Splices



Bonded Structural Splices connect XR Rails together.

- Integrated bonding
- No tools or hardware
- Self-centering stop tab

Clamps & Grounding ☺

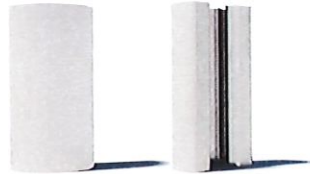
UFO™



Universal Fastening Objects bond modules to rails.

- Fully assembled & lubed
- Single, universal size
- Clear and black finish

Stopper Sleeves



Snap onto the UFO to turn into a bonded end clamp.

- Bonds modules to rails
- Sized to match modules
- Clear and black finish

CAMO™



Bond modules to rails while staying completely hidden.

- Universal end-cam clamp
- Tool-less installation
- Fully assembled

Bonding Hardware



Bond and attach XR Rails to roof attachments.

- T & Square Bolt options
- Nut uses 7/16" socket
- Assembled and lubricated

Attachments ☺

FlashFoot2™



Flash and mount XR Rails with superior waterproofing.

- Twist-on Cap eases install
- Wind-driven rain tested
- Mill and black finish

FlashVue™



Flash and mount conduit, strut, or junction boxes.

- Twist-on Cap eases install
- Wind-driven rain tested
- Secures 3/4" or 1" conduit

Knockout Tile



Replace tiles and ensure superior waterproofing.

- Flat, S, & W tile profiles
- Form-fit compression seal
- Single-lag universal base

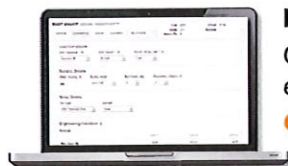
All Tile Hook



Mount on tile roofs with a simple, adjustable hook.

- Works on flat, S, & W tiles
- Single-socket installation
- Optional deck flashing

Resources



Design Assistant

Go from rough layout to fully engineered system. For free.

Go to IronRidge.com/design



Endorsed by FL Building Commission

Flush Mount is the first mounting system to receive Florida Product approval for 2017 Florida Building Code compliance.

Learn More at bit.ly/floridacert

The Ultimate Guide to

SOLAR OPTIMIZATION AND MAINTENANCE

Perform at the highest level.

Transform
energy

Transform
energy

SOLAR EQUIPMENT MAINTENANCE

Manage & Maintain Your Energy Systems with O&M

WHO WE ARE

A full service renewable energy company.

Know your solar energy system is performing optimally, all the time. Never having to worry about your investment. From continuous monitoring to annual system inspections and repair, you will have a partner with you every step of the way.



WHAT IS O&M?

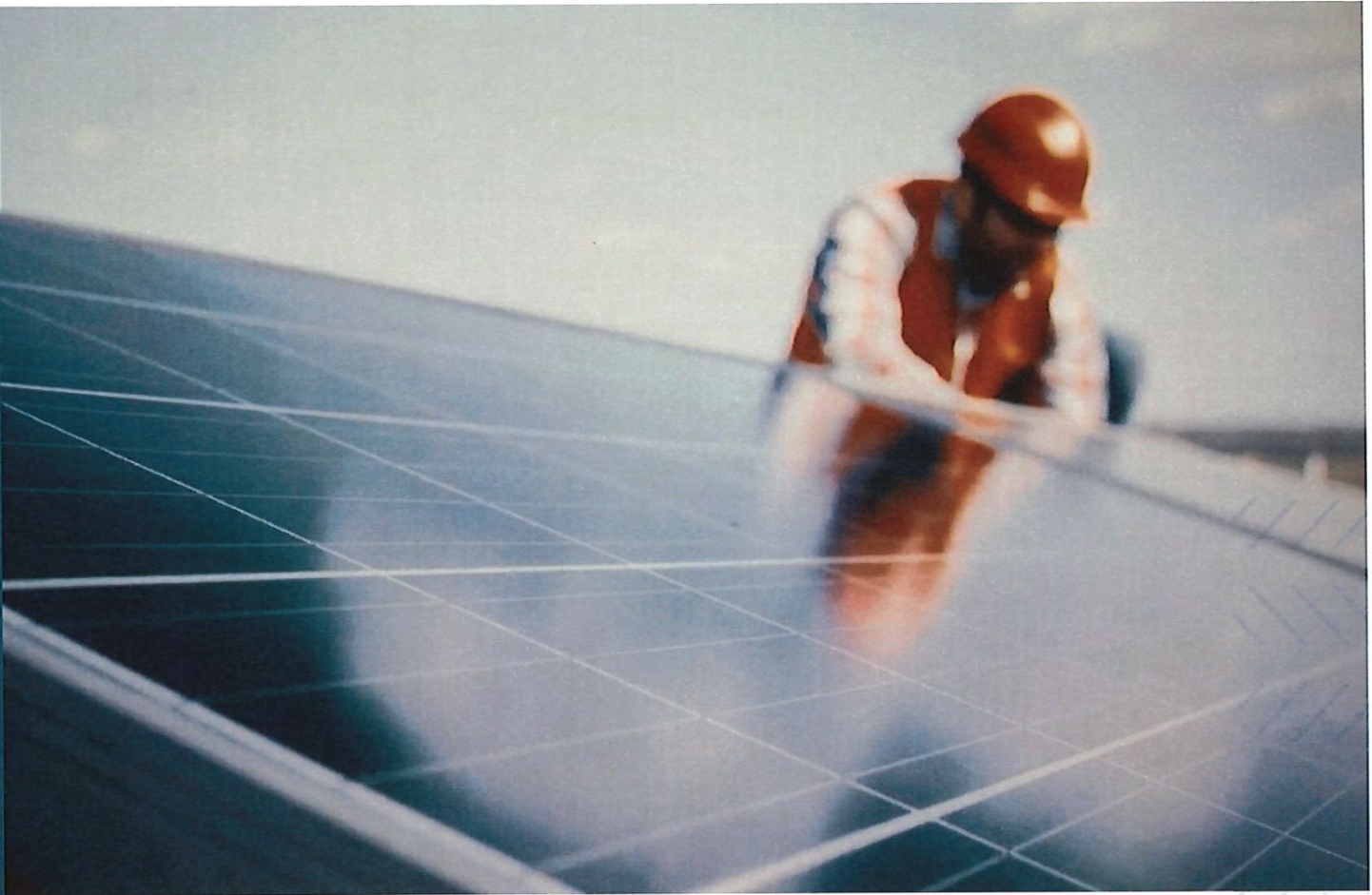
O & M is an optimization and maintenance program

for your solar assets. It entails 24/7 monitoring that takes the pulse of your solar assets minute by minute. The second an issue comes to light, we are notify you and respond, diagnose, and fix the problem so that your downtime is maximized and your production stays optimized, in order to maximize your revenue.

DID YOU KNOW?

Did you know that most solar warranties are based on annual maintenance? Without preventative maintenance **you could be stuck spending thousands of dollars more** on repairs or replacements.

OPTIMIZATION & MAINTENANCE



PROTECT YOUR ENERGY ASSETS

With your maintenance plan, you can be assured that your investment continues to produce at 100%. This consistency ensures a positive return on investment.

1.5 - 3x ROI on your preventative maintenance + investment.

24/7

system monitoring

48

hour emergency response

27%

lower average repair cost

COMMON CHALLENGES SOLAR OWNERS FACE

- ☀️ Solar **owners do not have peace of mind** that their equipment is still functioning.
- ☀️ Most solar panel users never achieve the ROI that they were promised.
- ☀️ Solar companies are not responsive to customers O&M and service needs.
- ☀️ Systems that aren't maintained or consistently optimized produce **30-40% less output**.



**HELPS ENSURE YOUR
SYSTEM IS PRODUCING
AT 100% AND KEEP
YOUR SYSTEM RUNNING
EFFICIENTLY**



CLIENT TESTIMONIAL

Zach Hogan, Hogan MFG

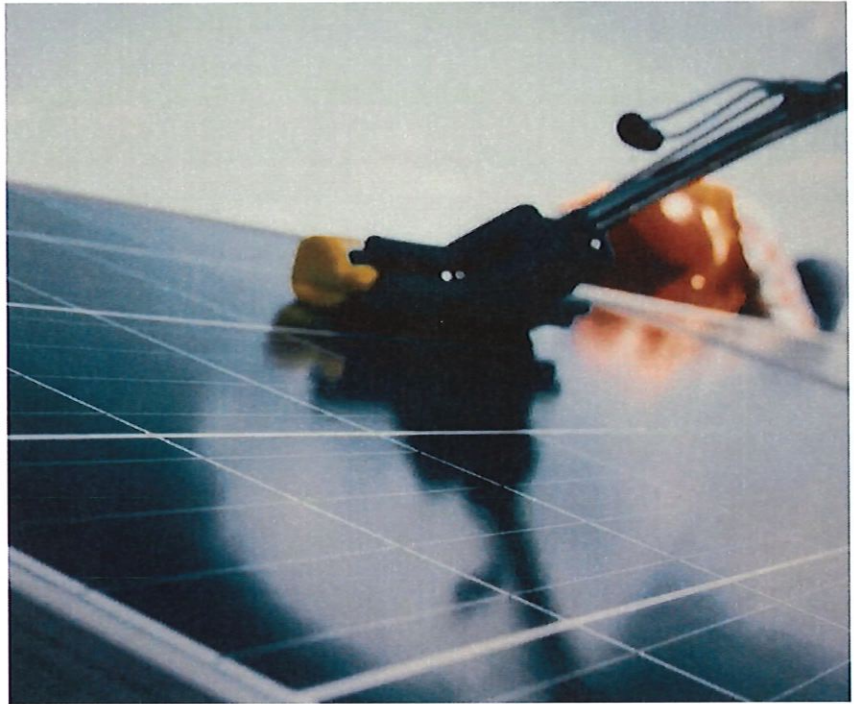
Transform quickly identified performance issues with our solar that we didn't even know we had. Transform Energy optimized our system to the point that our year 8 production was higher than year 1, and continues to be the trend today.

MAXIMIZE. OPTIMIZE. PRIORITIZE YOUR BUSINESS

How we can help **you** save money, energy, and time.

MAINTAIN ENERGY SAVINGS

It is crucial to keep an energy-efficient solar system maintained after installation and to optimize it to offer maximum savings. There are many things we can do to assure your system operates at the highest efficiency, such as regular cleaning, performance monitoring, annual checkups and maintenance



FOCUS ON YOUR BUSINESS

Managing your energy systems is not your primary function when you're an owner or manager. Trust us to take care of your energy systems, saving you money and allowing you more time to grow and manage your business. It is important to know that you won't be left hanging once your system is installed. Through innovative solutions like battery back-up, automatic cleaning solutions, and annual system inspections, Transform Energy will ensure max ROI is achieved. Rest easy knowing you have a partner with you every step of the way that will safeguard your system performance year after year.

O&M LEVELS OF SERVICE

LEVEL 1: ESSENTIAL SHIELD

Racking:

Array visual inspection-wire management, connector tightness, and insulation inspection
Array ground/racking debris removal and vegetation inspection
Lubricate tracker gears and motors (DAT, and SAT only)
Check Wind Stow Functionality (DAT and SAT only)
Verify fence condition and grounding (ground mounts)
Inspect system and site drainage
Inspect 100% of back-sheet a J-Boxes
Inspect 100% of module clamps for looseness

Modules:

Inspect 100% of glass side for cleanliness and obvious defects
Visually inspect frames for structural integrity, joint separation, rust, damage, or defects.
Thermal imaging of panels to determine faulty panels, cells, or micro defects in panels.
Visually inspect PV connectors, pigtails, and wire management.
Visually inspect back sheets for delamination, burns, or tears.

String Inverters:

Inspect for corrosion, labeling and basic condition of housing
Verify functionality of display and operation of PV system
Inspect fans and cooling/exhaust system
Inspect base of inverter and conduit entry points
Clean inverter interior and inspect for moisture intrusion
Check string fuse functionality
Check ground straps and ensure all grounds are intact and tight to the enclosure
Check pad integrity and proper attachment of inverter to pad (ground-mounted)
Clean heat sink and filters
Torque AC and DC conductors connections to manufacturers' specs
V-Curve Testing of strings
IR scan all string terminations
Confirm connection to Internet and monitoring platform.
Firmware updates

AC/DC Disconnections & Panel Boards

Cycle all movable parts in AC/DC disconnect & Panel Boards
Inspect all conductor connections to manufacturers' specs
IR scan all string terminations
Ensure proper lockout
Ensure all required labels and signage are in place

DAS & MET Stations:

Inspect cabinet for labeling, corrosion, moisture intrusion and basic conditions of housing
Ensure all conductors and wires are routed in a neat and clean manner
Torque data terminations to manufacturers' specs
Clean reference cell and/or pyranometer (Replace desiccant to ensure dryness)
Verify functionality of all DAS Components

Monitoring:

24/7 Monitoring of System
Rapid Identification of system faults
Customer notification of faults and service scheduling

Reporting:

Annual Inspection and Maintenance Report
Annual Production Report

Service:

First available service response
Market rates apply for service/repair.



O&M LEVELS OF SERVICE

LEVEL 2: PRO SHIELD

Essential Shield +
48-hour response
Monthly Production Reporting
1 Annual panel wash
Torque all combiner boxes to manufacturer specs annually

10% Discount on Service and Repair

LEVEL 3: COMPLETE SHIELD

Pro Shield +
3-panel washes annually
Quarterly Inspections
Torque all mechanical fittings including racking and modules to manufacturer specs annually
Priority on all parts and service calls

10% Discount on Service and Repair

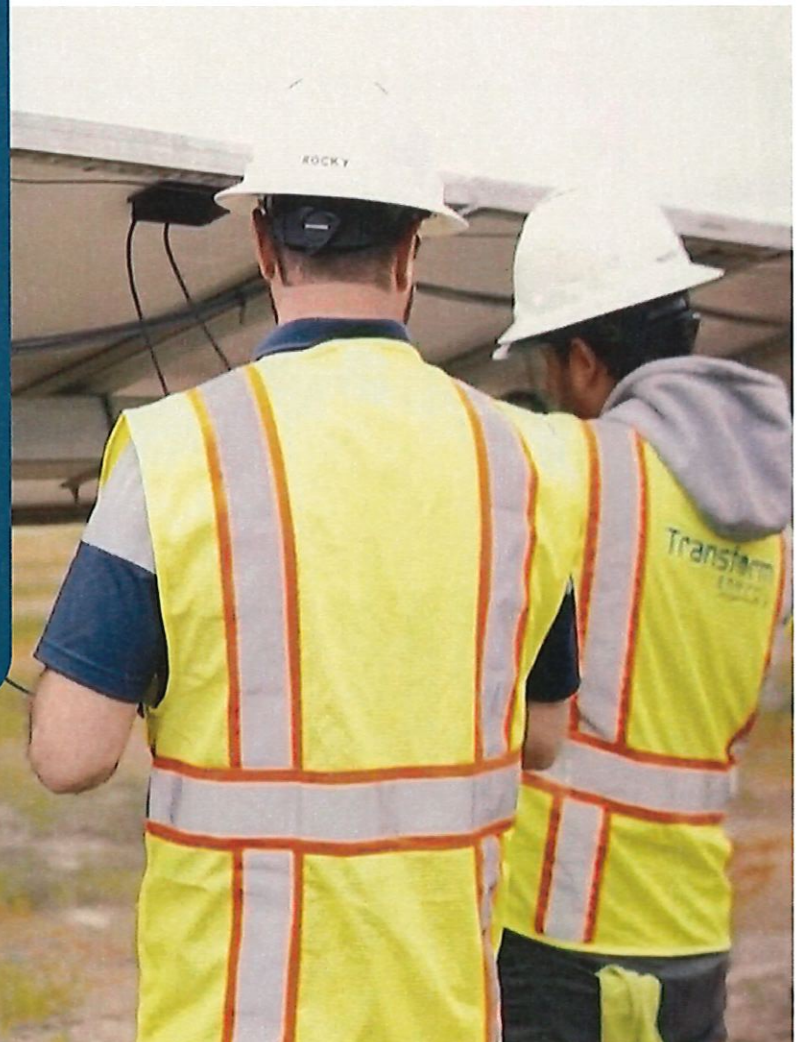
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CLIENT TESTIMONIAL

**Noel Basso, Winemaker
Thomas Allen Vineyards**

Transform Energy has been extremely professional and responsive. The budget and timelines were spot on and the construction went smoothly.

Transform continues to support us year around with all of our renewable energy needs. We are already planning our next solar project with Transform.



WHY TRANSFORM ENERGY?

What makes us different than other companies

ABOUT US

Transform Energy has a unique history with over 13 years of professional solar industry experience in California. We are one of the only O&M providers in the state with an easy annual plan to keep assets functioning at the highest level and give owner's peace of mind, knowing their systems are being monitored, optimized, and serviced.



Transform Energy's Proven O&M System

An energy company should not just design and install your project, they should be your lifetime partner in developing and implementing your renewable energy strategy. **Solar should be simple** and painless for business owners. We partner with you to formulate a sustainable energy model you can be sure is custom-tailored to your business needs.

Licensed and Bonded in General Structural Contracting, Electrical Contracting, and Roofing Contracting. Experience our pride in micro-analysis and value engineering which ensures that your investment is well spent and is positioned for the highest ROI possible.

SOLAR MADE SIMPLE.

OUR PROMISE TO YOU



EAGLE EYE GUARANTEE

If Transform does not identify an issue within 24 hours that we reasonably should have, we will fix the issue for free.

Eagle Eye Guarantee applies to services only.



CLIENT TESTIMONIAL

Tom Gallo, G3 Enterprises

Transform Energy has installed multiple solar systems for family members. Some of the installations proved to be very complex. Transform handled this in stride providing quality products that have stood the test of time. Transform Energy has earned our confidence in both their ability to design and construct and to maintain our renewable energy assets.

OUR PROMISE TO YOU

Transform Energy Service Guarantee

Our mission is to provide you with the highest quality renewable energy solutions and optimization services to maximize your energy savings for life, and give you the freedom to power anything, anywhere. We stand behind all of our services and provide warranties on all of our services and installation work.

Service Work: 1 Year Warranty

Our Guarantee: 10 Year Workmanship Warranty



**ARE YOU READY TO TAKE
SOLAR MAINTENANCE OFF
YOUR TO-DO LIST?**

CONTACT US

PHONE: 209.809.1300

EMAIL: sales@transformenergy.com



www.transformenergy.com





Escalon Fire District
1749 Coley Ave, Escalon, CA 95320, USA
+1 (209) 838-7500
msilva@escalonfire.com

Proposal for a 34.435 kW Solar Project

Option 1 without battery storage

Escalon Fire District
+1 (209) 838-7500
msilva@escalonfire.com

1749 Coley Ave,
Escalon, CA 95320, USA



Company

Masellis Electric & Solar, Inc.
+1 (209) 595-3319
Masellissolar.com
23845 E River Rd, Escalon, CA 95320, USA
Masellissolar@yahoo.com
License Number: 299990
Electrical License: C-10, C-46

Your Solar Pro

Ryan Masellis
Masellissolar@yahoo.com
2095953319

Generated Date: November 8th, 2023



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1749 Coley Ave, Escalon, CA 95320, USA
+1 (209) 838-7500
msilva@escalonfire.com

About Us

Masellis Electric is a family owned and operated business since 1974. We started out in residential and commercial electrical and have since expanded into energy analysis and customized solar installation.

Masellis Electric & Solar, Inc. now offers customized solar packages individualized to fit your budget, property, and energy needs. We pride ourselves in the highest standards in workmanship and customer service. We use only the finest, longest lasting components and provide the best fit and finished projects in the industry. No project is too large or small. Our friendly and courteous staff is ready to serve your electric and solar energy needs.

Masellis Electric & Solar, Inc. is fully licensed and insured. We have both C-10 & C-46 licenses.



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 1749 Coley Ave, Escalon, CA 95320, USA
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 msilva@escalonfire.com

Solar Details



System Size
 34.435 kW DC

Panels
 Q.PEAK DUO XL-G10.3/BFG
 485

Inverters
 SE10000H-US [240V]

CEC-AC Rating
 31.997 kW AC

**Estimated First Year
 Production**
 54,441 kWh

Consumption Offset
 110%

Array details

Panel: Q.PEAK DUO XL-G10.3/BFG 485

Quantity: 56	Watts: 485	Azimuth: 133° (SE)	Tilt: 10°	Mounting: tilted
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Panel: Q.PEAK DUO XL-G10.3/BFG 485

Quantity: 15	Watts: 485	Azimuth: 135° (SE)	Tilt: 18.43°	Mounting: flush
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Buy Option

Old Utility Bill	\$1,513.48 / Month
Estimated New Utility Bill	\$584.82 / Month
Estimated Bill Difference	\$928.67 / Month



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Pricing

	Price	Discounts & Rebates	Total Price
Base Price for Solar Based on a 34.435 kW installation	\$118,800.75		
Gross Cost	\$118,800.75	-\$0.00	\$118,800.75
Federal Tax Credit Residential Renewable Energy Tax Credit - 30%		-\$35,640.23	
Cost after Rebates & Incentives*	\$118,800.75	-\$35,640.23	\$83,160.52

*Note: Not everyone is eligible for credits, incentives, or rebates or can fully use them. Please consult your tax professional or legal professional for further information.** Incentives are subject to change. The actual amount can be higher or lower than what is quoted, and may not stay at a fixed rate over time. It can also change based on the tax bracket you are in.



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Pricing

Modified Accelerated Cost Recovery System (MACRS) (with 0% Bonus)

Depreciation Benefit

Tax Savings - Year 1 (0% Bonus + 20.00% of new basis)	-\$6,058.84
Tax Savings - Year 2 (32.00% of new basis)	-\$9,694.14
Tax Savings - Year 3 (19.20% of new basis)	-\$5,816.48
Tax Savings - Year 4 (11.52% of new basis)	-\$3,489.89
Tax Savings - Year 5 (11.52% of new basis)	-\$3,489.89
Tax Savings - Year 6 (5.76% of new basis)	-\$1,744.95

*Note: Not everyone is eligible for credits, incentives, or rebates or can fully use them. Please consult your tax professional or legal professional for further information.** Incentives are subject to change. The actual amount can be higher or lower than what is quoted, and may not stay at a fixed rate over time. It can also change based on the tax bracket you are in.



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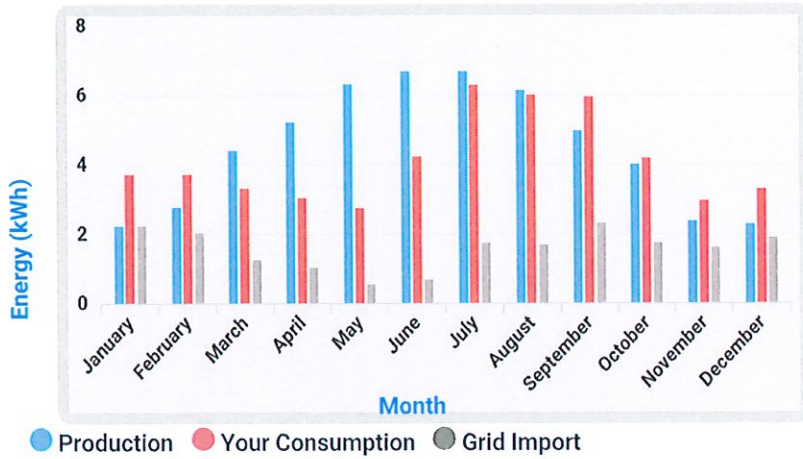
Materials

Material	Description	Data Sheet	Quantity
Panels	Q.PEAK DUO XL-G10.3/BFG 485 (485 Watts)	Download	71
Inverters	SE10000H-US [240V]	Download	3



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 msilva@escalonfire.com

Usage Breakdown



Consumption Offset

110%

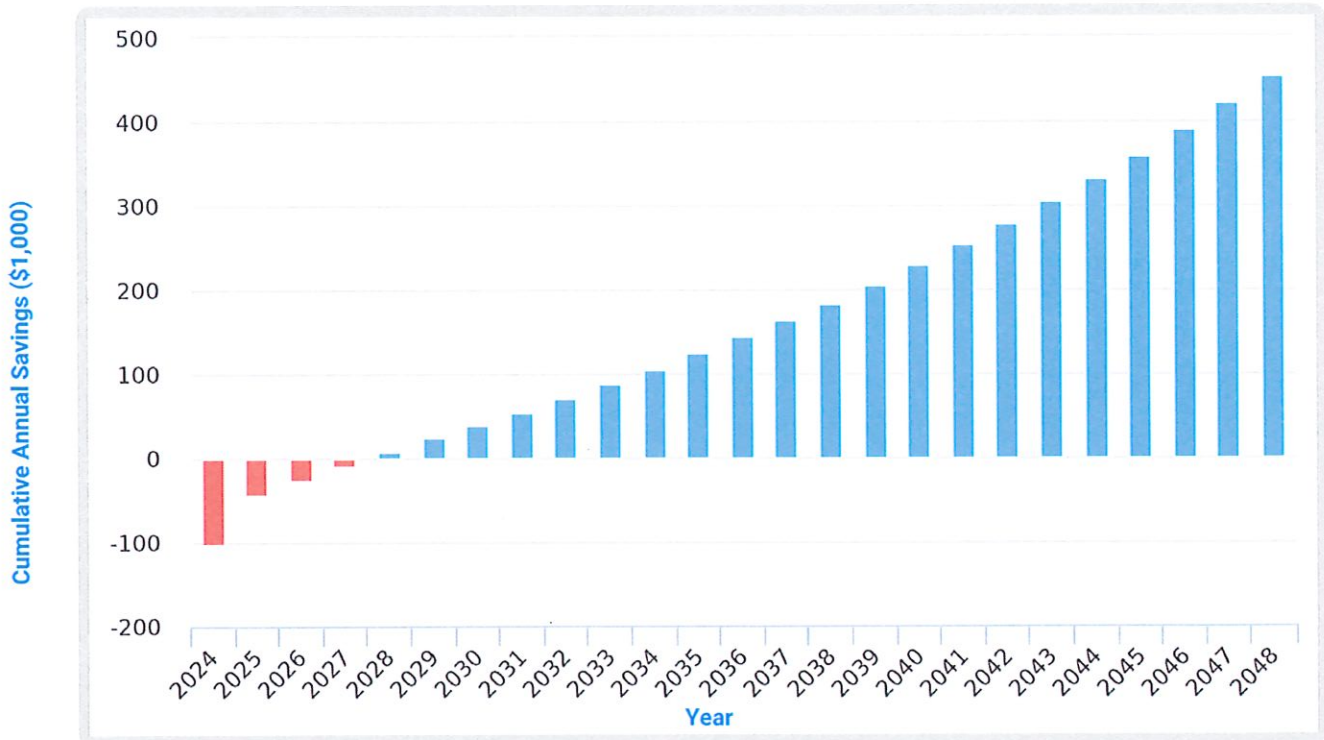
Estimated First Year Consumption

49,693.0 kWh

Estimated First Year Production

54,441.3 kWh

Estimated Yearly Cumulative Savings



Assuming a 5.00% escalation rate on utility rate



Escalon Fire District
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+1 (209) 838-7500
msilva@escalonfire.com

Net Savings

⊕ Utility Savings	\$506,406.69
⊕ Incentive Revenues	\$0.00
⊕ Tax Benefits	\$65,934.42
⊖ Operating Cost	\$0.00
⊖ Financial Payments	\$118,800.75



Net Savings

\$453,540.35

Levelised energy costs

\$0.01



Month-by-Month Details

Month (2024)	Utility Savings	Incentive Revenues	Operating Cost	Financial Payments	Tax Benefits	Monthly Savings
January	\$509.09	\$0.00	\$0.00	\$118,800.75	\$504.90	-\$117,786.76
February	\$574.07	\$0.00	\$0.00	\$0.00	\$504.90	\$1,078.97
March	\$692.81	\$0.00	\$0.00	\$0.00	\$504.90	\$1,197.71
April	\$675.77	\$0.00	\$0.00	\$0.00	\$504.90	\$1,180.68
May	\$745.38	\$0.00	\$0.00	\$0.00	\$504.90	\$1,250.29
June	\$1,374.41	\$0.00	\$0.00	\$0.00	\$504.90	\$1,879.31
July	\$1,752.49	\$0.00	\$0.00	\$0.00	\$504.90	\$2,257.39
August	\$1,659.29	\$0.00	\$0.00	\$0.00	\$504.90	\$2,164.19
September	\$1,374.77	\$0.00	\$0.00	\$0.00	\$504.90	\$1,879.67
October	\$840.03	\$0.00	\$0.00	\$0.00	\$504.90	\$1,344.94
November	\$463.67	\$0.00	\$0.00	\$0.00	\$504.90	\$968.57
December	\$482.21	\$0.00	\$0.00	\$0.00	\$504.90	\$987.11
Total	\$11,143.98	\$0.00	\$0.00	\$118,800.75	\$6,058.84	-\$101,597.93

Production and Savings estimates are based on a period of 25 years by default. The length of the default project life can be updated for all projects by visiting the [Your Pricing](#) section in the Company settings. To change the project life for this project, visit [Utility](#) section under Settings button at the top edge of this page. Estimated production assumes equipment is maintained and free from damage or other impediments. Estimated projected usage is based on your current utility bill.

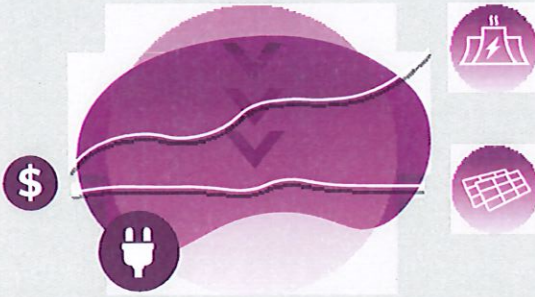


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Year-by-Year Details

Year	Utility Savings	Incentive Revenues	Operating Cost	Financial Payments	Tax Benefits	Annual Savings
2024	\$11,143.98	\$0.00	\$0.00	\$118,800.75	\$6,058.84	-\$101,597.93
2025	\$11,577.77	\$0.00	\$0.00	\$0.00	\$45,334.37	\$56,912.13
2026	\$12,200.39	\$0.00	\$0.00	\$0.00	\$5,816.48	\$18,016.88
2027	\$13,013.97	\$0.00	\$0.00	\$0.00	\$3,489.89	\$16,503.86
2028	\$13,819.07	\$0.00	\$0.00	\$0.00	\$3,489.89	\$17,308.96
2029	\$14,663.65	\$0.00	\$0.00	\$0.00	\$1,744.95	\$16,408.60
2030	\$14,904.74	\$0.00	\$0.00	\$0.00	\$0.00	\$14,904.74
2031	\$15,647.99	\$0.00	\$0.00	\$0.00	\$0.00	\$15,647.99
2032	\$16,354.71	\$0.00	\$0.00	\$0.00	\$0.00	\$16,354.71
2033	\$16,993.57	\$0.00	\$0.00	\$0.00	\$0.00	\$16,993.57
2034-2038	\$96,534.01	\$0.00	\$0.00	\$0.00	\$0.00	\$96,534.01
2039-2043	\$119,841.71	\$0.00	\$0.00	\$0.00	\$0.00	\$119,841.71
2044-2048	\$149,711.11	\$0.00	\$0.00	\$0.00	\$0.00	\$149,711.11
Total	\$506,406.69	\$0.00	\$0.00	\$118,800.75	\$65,934.42	\$453,540.35

Benefits of Solar



Control your Energy Costs
 As utility prices continue to climb you will enjoy predictable energy costs for years to come.



Increase the value of your property
 A number of real estate studies find that solar is a building improvement that may increase the market value of your property.
 Source: <https://www.nrel.gov/docs/fy08osti/42733.pdf>

Benefit your environment



 103,272 Gallons of gasoline saved	 39,054 Trash bags of waste recycled
 15,296 Tree seedlings grown for 10 years	 1,010,765 Pounds of coal saved

Source: United States Environmental Protection Agency



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Signature

I hereby agree to move forward with the solar project as described above and agree to the Terms and Conditions below of the contract provided by the installer Masellis Electric & Solar, Inc. joined to this proposal.

Escalon Fire District

Date of Signature (MM-DD-YYYY)



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Terms & Conditions

Proposal valid for 15 days.

Additional information specific to your solar project:

Client name: Escalon Fire District

Address of project: 1749 Coley Ave, Escalon, CA 95320, USA

Solar Panels:

- Manufacturer: Hanwha Q CELLS
- Model: Q.PEAK DUO XL-G10.3/BFG 485
- Watts: 485
- Count: 56

- Manufacturer: Hanwha Q CELLS
- Model: Q.PEAK DUO XL-G10.3/BFG 485
- Watts: 485
- Count: 15

Inverter:

- Name: SolarEdge Technologies Ltd. - SE10000H-US [240V]
- Efficiency: 99.20%

Panel:

- Name: Hanwha Q CELLS - Q.PEAK DUO XL-G10.3/BFG 485
- Efficiency: 20.90%

Pricing & Payment information:

Rebates & Incentives applied to the project:

- Residential Renewable Energy Tax Credit - 30%: -\$35,640.23

Gross price of system \$118,800.75

Cost after rebates and incentives: \$83,160.52

Project specs:

- System Size: 34.435 kW
- CEC-AC Rating: 31.997 kW
- Estimated First Year Production: 54,441 kWh AC
- Consumption Offset: 110%