



Suntrek Industries, Inc

Statement of Qualifications

Government ● Residential ● Commercial



www.suntreksolar.com

CORPORATE STATEMENT

Suntrek Industries, Inc. enjoys a strong reputation in the solar energy industry as a competitive, creative, hard-driving sales, design and installation organization. Since forming the company in 1991, Roy Heine has led the company through several key developments.

Suntrek focuses on solar swimming pool heating, photovoltaic, energy storage, and domestic water-heating markets, thereby rounding out its solar energy portfolio to include what it has branded as The Solar Power of Three™ (solar swimming pool heating, solar electricity and solar hot water). Suntrek is one of the few companies in the United States that has combined expertise in all three areas with sales, design and installation knowledge. It is indeed rare for any company to be able to manage projects involving both water and electricity. The company has completed several signature designs and installations, operating as a single source provider to customers ranging from individuals to corporate and government entities.

Suntrek has several offices in the western United States, with internal design and installation capability. The organization boasts a strong management team, a clean balance sheet, and great relationships with customers and vendors alike. The Suntrek sales / design team covers much of the southwestern region of the U.S. and continues to generate new business opportunities daily.

The company is competitive with large organizations, and consistently engages in bidding on larger commercial projects. By aligning itself with large-scale companies, Suntrek continues to be a part of hefty projects by generating new partnerships with complementary service and hardware providers. Suntrek is now partnering on large projects with companies such as CLIMATEC, RE-GREEN, LUSARDI CONSTRUCTION, MORELY BUILDERS and the like.

Recognizing the need to compete on a number of levels that include financing and sourcing arrangements, the company has arranged for financing with Morgan Stanley, American Capital, Clean Power Finance, SunPower, Canadian Solar and Wells Fargo among others. With our partners, Suntrek has many financing vehicles at its disposal including, but not limited to, operating leases, capital leases, solar loans and Power Purchase Agreements (PPAs). By working with industry leading partners in the manufacturing and finance industries, Suntrek can further extend its reach into the marketplace.

Company marquee projects include solar energy systems for the Department of Defense, the Church of Jesus Christ of Latter-Day Saints, City of Merced John Latoracca Correctional Facility, McDonalds Restaurants, Pomona College, Yosemite National Park, San Diego Unified School District, Long Beach Airport, Edison's Innovation Village, the California Department of Transportation and the High Desert Hospital, MACC campus to name just a few. In addition, Suntrek has worked closely with production home builders and multi-family developers such as Avalon Bay Properties, The Irvine Company, Investments Concepts, Warmington Homes, Brookfield Homes, The Irvine Company, McCaffrey Homes, Blue Heron Homes, AIMCO and Beazer Homes.

CORPORATE FACT SHEET

Company name: Suntrek Industries Incorporated

Type of Entity: California Corporation

Founded: 1991

Project focus: Solar Electricity, Energy Storage Systems, Domestic Hot Water, and Swimming Pool Solar Heating (Installations: Over 30,000)

State Contractor's Licenses:

CA: 859460

NV: 0039030, 0070340

AZ: ROC255609, ROC250353

UT: 7532981-5501

Markets served: Residential, Commercial, Government, Non-Profit, Public Schools, Military, and Utility

Web Site: www.suntreksolar.com

Associations:

California Solar Energy Industries Association (CALSEIA), California Association of Community Managers (CACM), Solar Energy Industries (SEIA), Building Industry Association (BIA), Community Associations Institute (CAI), Better Business Bureau (BBB), Independent Pool and Spa Service Association (IPSSA), United Pool Association (UPA) and Multiple Chambers of Commerce

Certifications:

NABCEP

Solar Rating and Certification Corporation Products certified by Florida Solar Energy Center

Risk Management by: Milestone Risk Management & Insurance Services

SUNTREK REGIONAL OFFICE LOCATIONS

Southern California:

5 Holland Drive
Building # 215
Irvine, 92618

Northern California:

721 E 18th St
Antioch, 94509

Nevada:

6560 Spencer Street, # A1-105
Las Vegas, 89119

Since our first patent, we have been widely recognized for consistently manufacturing, designing, and installing high-quality solar energy systems backed by outstanding warranties and customer support. With locations in California and Nevada and dealers throughout North America, we have provided custom solar energy solutions to over 30,000 customers world-wide. The majority of our business comes from the referral of satisfied builders and customers who have experienced our products and services first-hand.

EXECUTIVE MANAGEMENT TEAM

The Management Team at Suntrek Industries has been developed since 1991. Key qualities that are required to join the team are a strong work ethic, integrity, and the desire to exceed customer expectations. Suntrek boasts a strong project management team that includes leaders from a variety of markets and industries.



Ethan Heine, President and CEO

Ethan Heine grew up in the solar industry and first began participating in solar installations with our Yosemite National Park project in 2010. Since then, Ethan has learned the business from the ground up. With experience at Suntrek in solar installations, operations, sales, and management, Ethan is the visionary for Suntrek's future.



Roy Heine, Founder and Advisor

Roy Heine began his solar energy career in 1978. Since that time Roy has been involved with over 25,000 solar energy projects ranging from small residential to large scale commercial. A graduate of James Madison University, Roy founded Suntrek Industries, Inc. in 1991 with a passion for solar as well as a concern for the environment.



Joyce Armstrong, Director of Finance and Human Resources

Joyce joined the Suntrek Industries, Inc. team in June 2013. She is responsible for the accounting, budget, audit and human resource functions of the corporation.



Sabrina Monisky, GM/Director of Operations

Sabrina has years of experience in electrical and roofing applications. She has developed and responsible for the implementation of processes and policies company-wide that make Suntrek an efficient operation.

**Aaron Hill, Technical Director**

Aaron Hill began his career at Suntek in 1996. A solar industry veteran since 1988, Aaron has a wealth of systems engineering and project management expertise. In addition to patent design work and solar energy engineering, he is responsible for writing installation manuals and training customers and subcontractors in installation procedures and product operation.

**Kiril Bidzoski, Master Electrician**

Kiril started with Suntek in 2011. After earning his C-10 license and credentials as a Master Electrician, he now oversees the electrical work for solar and battery installations, ensuring quality control and best practices in the field.

**Tabitha Givens, Regional Manager (Norcal)**

Tabby has over 15 year of experience at Suntek Industries, Inc. She has grown from an administrative assistant to a top producer at Suntek, generating new business and managing the Northern California region.

**Amanda Lehrer, Regional Manager (Nevada)**

Amanda has over a decade of experience at Suntek Industries, Inc. She brings to the team a wealth of industry knowledge and is the face of our operations in the state of Nevada.

**DJ Delten Regional Sales Manager (Nevada)**

DJ has a wealth of knowledge and experience in solar thermal and solar PV applications. He is the visionary for all business development and sales in the Nevada Market

**Matt Strong, Solar Thermal Operations Manager**

Matt has extensive background in various construction trades and brings that valuable experience to the table when coordinating all aspects of a solar installation. Whether it is solar service, installation of a new system, or coordinating with trades on a new construction project, Matt is equipped to set our installation team up for success.

**Jonathan Nguyen, PV and Energy Storage Operations Manager**

Jonathan has extensive background in solar design and understands how solar designs impact the boots on the ground during installation. With these practical tools and industry knowledge, he is a great asset to our team and customer

**Lori Davis, Project Manager**

Lori is force to be reckoned with. Her positivity and hard work makes her an incredible teammate that brings the best out of our field crew and keeps our customers happy.

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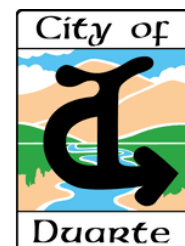
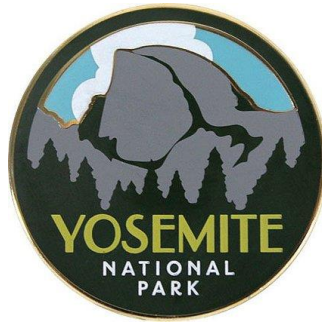
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GOVERNMENT PROJECTS

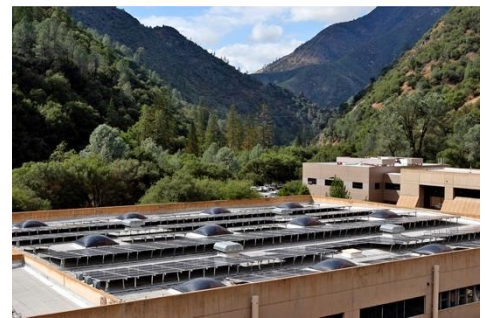
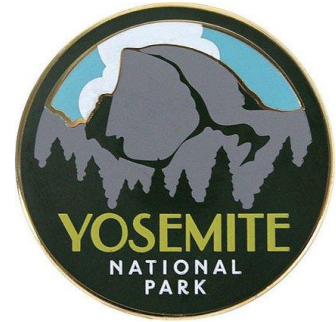


CASE STUDIES – Photovoltaics 1

Yosemite National Park

Yosemite Valley, CA

Suntrek was contracted to design and install the largest photovoltaic system in the National Park Service’s History at Yosemite National Park. The project encompasses over 700kw of PV solar and covers roofs, carports, walls, and specially designed wall extensions



CASE STUDIES – Photovoltaics 2

Long Beach Airport

Long Beach, CA

The Long Beach Airport Photovoltaic Project featured bi-facial solar modules mounted on dual-axis trackers. This project is considered a cutting-edge demonstration of solar power and featured by the city.

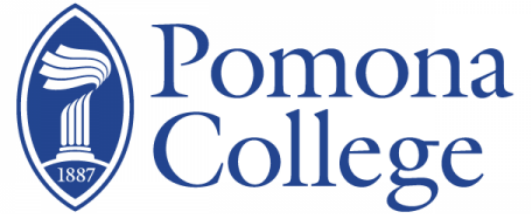


CASE STUDIES – The Solar Power of Three™ 3

Pomona College

Claremont, California

This is an industrial-strength version of Suntrek's Power of Three, Suntrek has installed a 10,000 square foot pool-heating system, a 100kW PV system, and a large solar hot water system at the college.



CASE STUDIES – Swimming Pool Solar 4

SPLASH! La Mirada Aquatics Center

Duarte, CA

Suntrek designed and installed a multiple solar thermal pool heating systems for the Training Pool and Lazy River at SPLASH. This system will save the City of La Mirada tens of thousands of dollars every year.

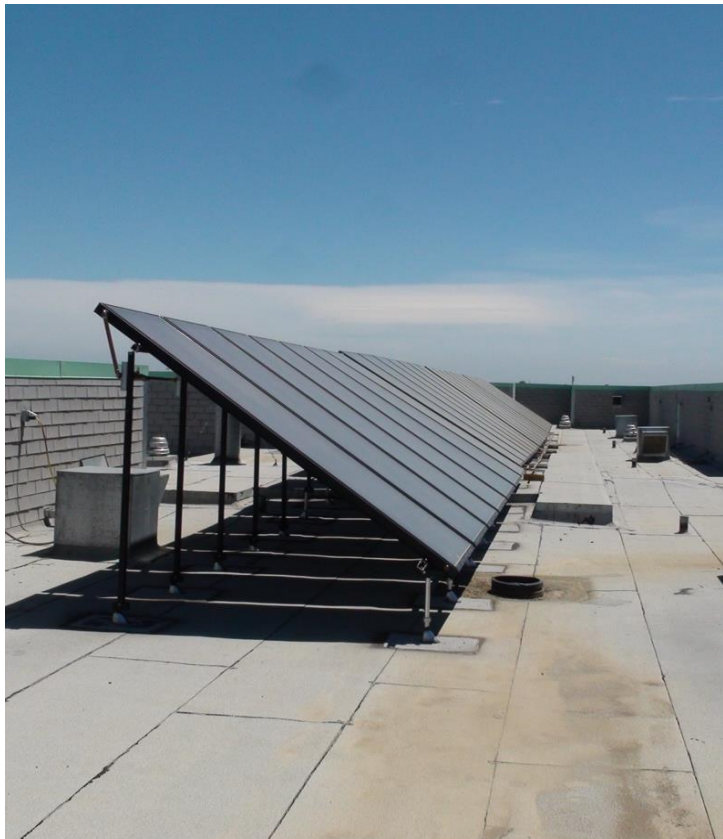
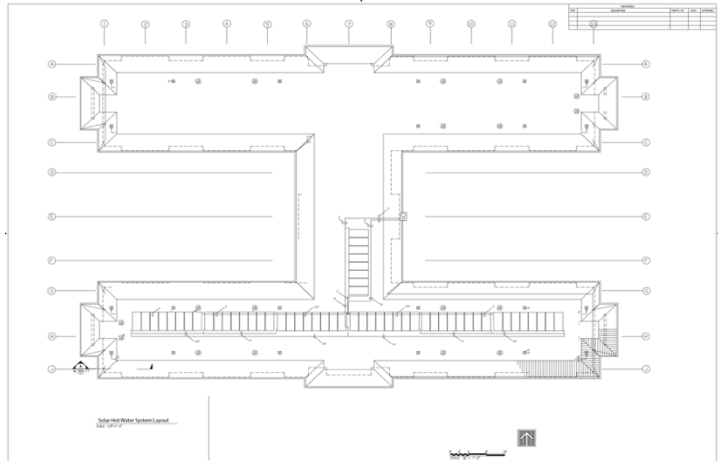


CASE STUDIES – Domestic Hot Water 5

Lemoore Naval Air Station

Lemoore, CA

Suntrek is installed 56 flat panel hot water collectors, a 20,000 gallon tank and 4 heat exchangers at Lemoore Naval Air Station for domestic hot water heating



CASE STUDIES – The Solar Power of Three™ 6

China Lake Naval Air Weapons Station

China Lake, CA



Suntrek has been contracted to provide solar installations for the China Lake Naval Air Weapons Station that will include solar domestic hot water heating, solar pool heating and retractable pool covers

SOLAR POOL HEATING PROPOSAL

Technical specifications:
 Collector: EPDM Elastomer
 Manifold: Polypropylene, 2" Diameter, 28" long, 72 channels
 Weight: 11LB per SQ foot empty, 1 1/2 LBS. full
 BTU Rating: 1024 FT²/day
 Made in USA under patent # CES-402-420

California:
 El Segundo, CA 90218 (840)848-0276
 130 N. Pacific St., Unit E-8 San Marcos, CA 92069 (760)891-0002
 5940 Commercial Circle #C Concord, CA 94020 (925)688-8983
 185 Easy St. #F San Valero, CA 93965 (925)622-5102
 San Jose (408)218-2383

Navada:
 6860 S. Spangler St. A1-105 Las Vegas, NV 89119 (702)363-3611

www.suntreksolar.com

Solar Analysis Provided by:
 Alex Smith
 Phone: 213-218-7301
 Voice: 905-522-6502
 Email: alex@suntreksolar.com

APPENDIX (A) PROJECT:

Section 1 (WBAN NO. 23234) Los Angeles, CA (Installed at 19 Degree Tilt)

Month	POOL EST Load (10% Btu)	Heater Load (No Solar)	Heater Load with Solar	SOLAR Production (10% Btu)	SOLAR Fraction (%)	ESTIMATED GAS BILL
January	112	542	242	1190	41.13%	\$21,756.87
February	175	497	167	211	35.73%	\$1,505.35
March	232	430	195	237	55.21%	\$946.36
April	257	351	0	270	100.00%	\$0.00
May	203	297	0	271	100.00%	\$0.00
June	137	161	0	271	100.00%	\$0.00
July	52	57	0	294	100.00%	\$0.00
August	17	52	0	295	100.00%	\$0.00
September	115	152	0	249	100.00%	\$0.00
October	201	294	0	238	100.00%	\$0.00
November	315	416	135	151	37.31%	\$1,212.69
December	112	543	354	155	35.35%	\$2,286.87
Conservative, Yearly Estimated Production:				2795.12		\$4,139.14

FINANCIAL Analysis

YEAR	Cost W/O Solar	Why Gas Savings	Q and M Cash Flow	COMMERCIAL
1	120,008	117,355	248.50	-47,393.44
2	120,675	119,732	474.44	-27,061.65
3	131,642	121,705	-714.42	-1,955.74
4	134,697	123,575	-729.47	17,918.69
5	135,166	125,293	-728.05	44,151.66
6	141,983	126,659	-399.00	73,070.93
7	146,181	131,775	-420.26	104,549.13
8	150,799	134,990	-403.38	139,806.15
9	155,319	138,642	-437.52	178,256.77
10	161,467	142,297	-423.02	220,253.55
11	167,614	146,520	-695.54	267,080.01
12	174,276	151,179	-686.34	316,259.11
13	181,813	156,297	-1,035.27	374,256.12
14	189,994	161,927	-1,079.20	439,482.84
15	198,994	168,119	-1,122.99	504,002.23

SOLAR POOL HEATING PROPOSAL

Technical specifications:
 Collector: EPDM Elastomer
 Manifold: Polypropylene, 2" Diameter, 28" long, 72 channels
 Weight: 11LB per SQ foot empty, 1 1/2 LBS. full
 BTU Rating: 1024 FT²/day
 Made in USA under patent # CES-402-420

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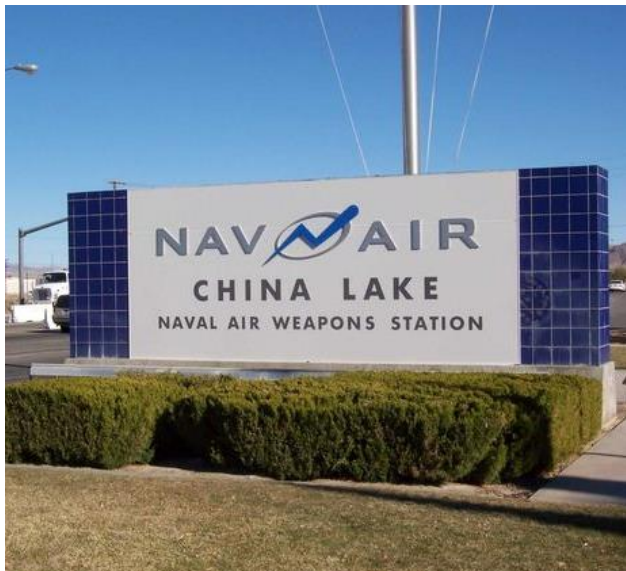
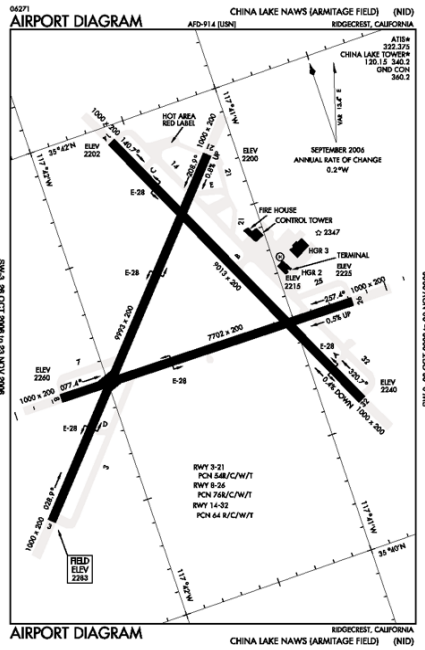
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(WBAN NO. 23234) Los Angeles, CA (Installed at 19 Degree Tilt)

Heater Load by percentage of total required by Month

Pool heat efficiency = $\eta = \alpha \times \Delta T_{pool} / (\alpha \times \Delta T_{pool} + \tau)$ Average solar radiation average HRLY solar rad-solar resource X 1000000 hrs sunlight solar resource (MMBTU/FT²/day = solar resource metric X 341.2 / 10000000
 Surface heat loss due to Temperature Difference
 The heat load necessary to cover the surface loss due to temperature difference between pool surface and ambient air is expressed as: $h_{surface} = h_a \times \Delta T_{air} \times A$
 where:
 ΔT_{air} = temperature difference between the air and surface water in the pool (oF)
 A = surface area of the pool (ft²)
 Additional information on analysis available

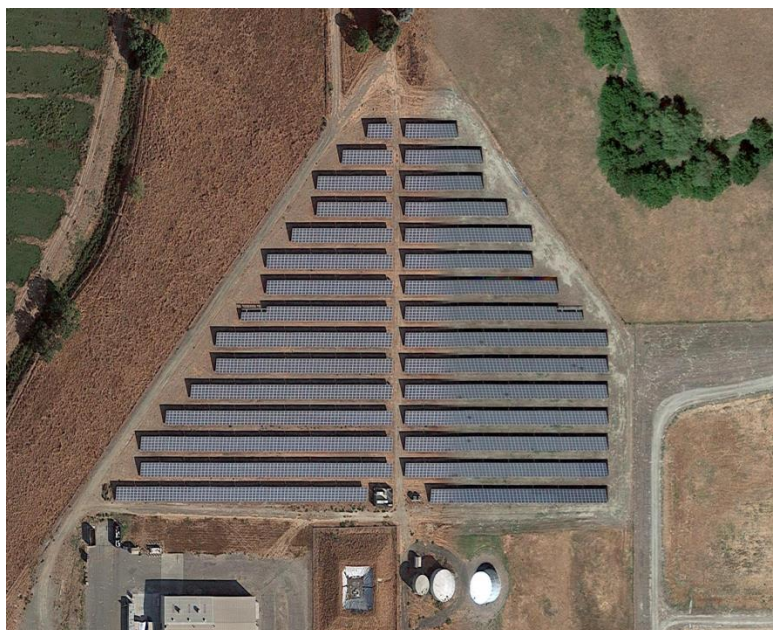
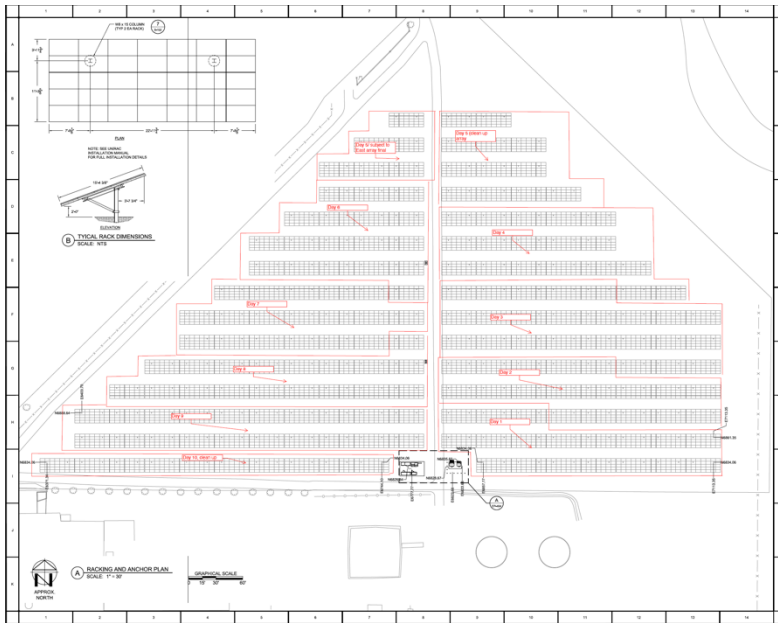


CASE STUDIES – Photovoltaics 7

John Latoracca Correctional Facility

Merced, CA

Suntrek has teamed with Siemens who is installing a 1.4mW solar system at the facility. Suntrek will be constructing the racking for this ground mount system, erecting the A frame structure and cross rails

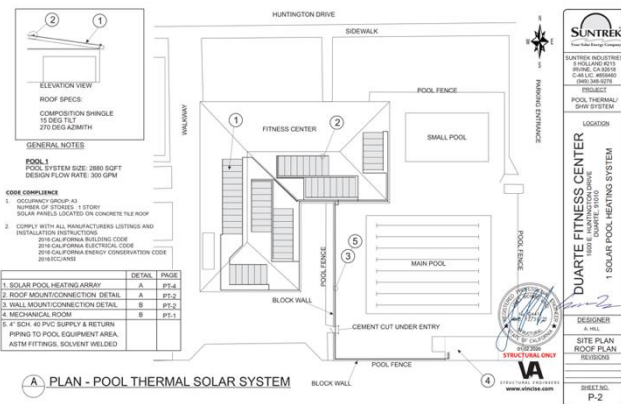


CASE STUDIES – Swimming Pool Solar 8

Duarte Fitness Center - Climatec

Duarte, CA

Suntrek designed and installed a solar thermal pool heating system for the city of Duarte, CA. Suntrek combined efforts with CLIMATEC to provide several energy efficiency measures for the city. (2019)

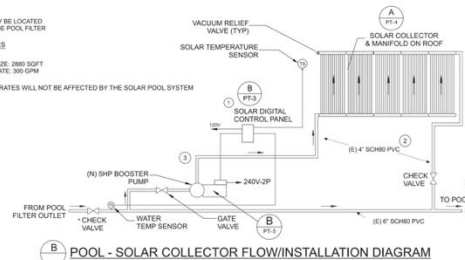


NOTES:

1. CONTROL WIRING CONNECTS TO LINE SIDE OF EXISTING POOL PUMP TIME CLOCK, 120V/240VAC
 2. ALL ROOF PIPINGS SHALL BE BLACK SCH. 40 PVC ASTM FITTINGS, SOLVENT WELDED
- ALL PIPING FROM EQUIPMENT TO ROOF SHALL BE SCH 40 PVC ASTM FITTINGS, SOLVENT WELDED
- N-NEW
E-EXISTING
* CHECK VALVE MAY BE LOCATED UPSTREAM OF THE POOL FILTER

GENERAL NOTES:

- POOL 1**
POOL SYSTEM SIZE: 2880 SQFT
DESIGN FLOW RATE: 300 GPM
- FILTRATION FLOW RATES WILL NOT BE AFFECTED BY THE SOLAR POOL SYSTEM



SUNTREK
Suntrek Industries
15000 Duarte Avenue
Duarte, CA 91024
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DESIGNER
SUNTREK INDUSTRIES
15000 DUARTE AVENUE
DUARTE, CA 91024
(951) 261-8888
www.suntrek.com

PROJECT: POOL THERMAL SOLAR SYSTEM
LOCATION: DUARTE FITNESS CENTER
DESIGNER: SUNTREK INDUSTRIES
SYSTEM FLOW DIAGRAM REVISIONS:

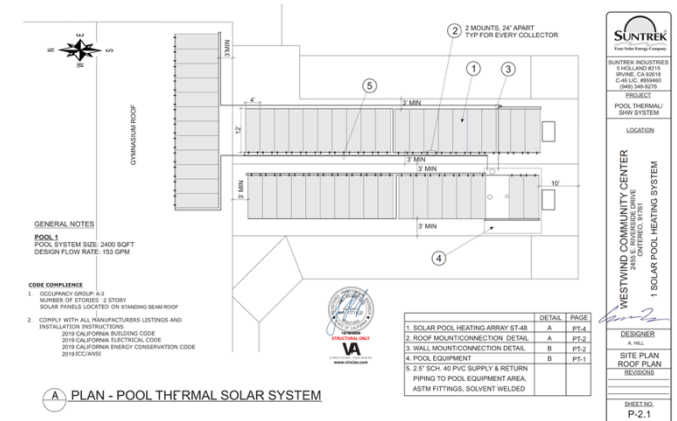
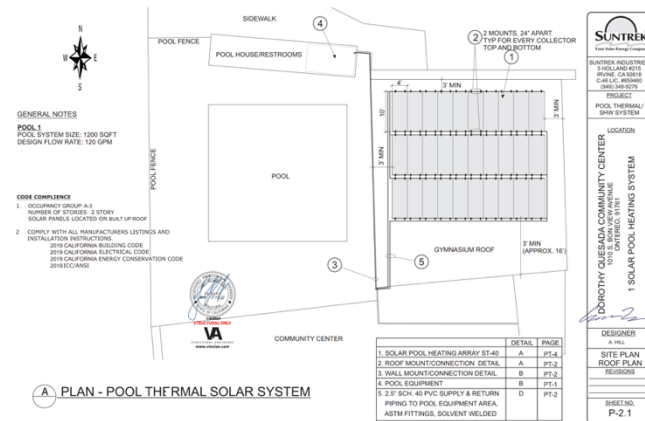
SHEET NO. PT-1

CASE STUDIES – Swimming Pool Solar 9

Ontario Community Centers

Ontario, CA

Suntrek designed and installed a solar thermal pool heating system for the city of Ontario, CA. Westwind Community Center and Dorothy Quesada Community Center now both use solar to heat their swimming pools!



CASE STUDIES –Swimming Pool Solar 10

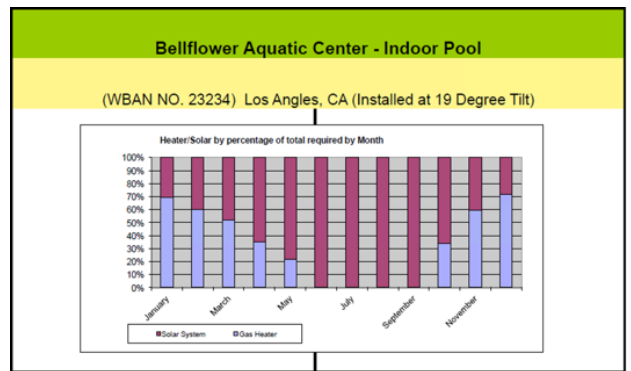
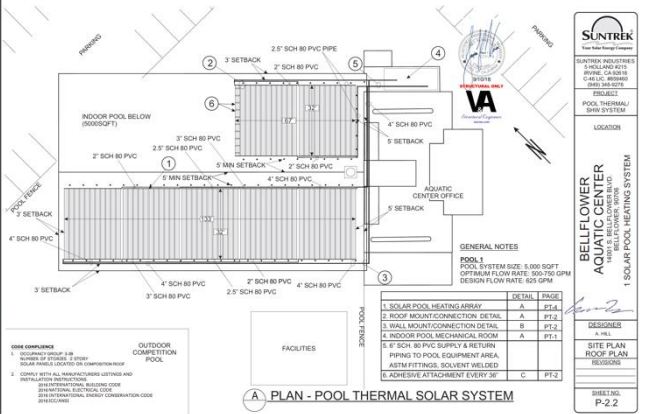
Bellflower Aquatic Center

Bellflower, CA

Suntrek teamed up with Climatec to design and install a 5000 Sq Ft solar thermal pool heating system for the City of Bellflower. The system will keep an indoor competition swimming pool at competition standard temperatures. community swimming pool with tens of thousands in gas savings.



SUNTREK Your Solar Energy Company™ www.suntreksolar.com 1.800.292.7648		SOLAR POOL HEATING PROPOSAL				
Technical specifications: Collector: Suntrek EPDM Elastomer Manifold: Polypropylene, 2" Diameter, 28" long, 72 channels Weight: 1LB per SQ foot empty, 1 1/2 LBS. full BTU Rating: 1024 FT ² /day Made in USA under patent # DES 420,420		California: Corporate Headquarters 5 Holland Ste 215 Irvine, CA 92618 (949)348-9276 Northern CA Office 4951 Sunrise Drive Ste 102 Martinez, CA 94533 (925)372-8983 Nevada: 6560 S Spencer St A1-105 Las Vegas, NV 89119 (702)362-3611				
www.suntreksolar.com Solar Analysis Provided by: Ethan Heine Voice: (949) 348-9276 Fax: (949) 348-1626 Email: eheine@suntreksolar.com		APPENDIX (A) PROJECT: Bellflower Aquatic Center - Indoor Pool Section 1 (WBAN NO. 23234) Los Angeles, CA (Installed at 19 Degree Tilt)				
Month	POOL EST Load [10 ⁶ Btu]	Heater Load No solar	heater load with Solar	SOLAR Production [10 ⁶ Btu]	SOLAR Fraction [%]	ESTIMATED GAS BILL
January	963	572	462	201	30.39%	\$3,646.68
February	824	821	373	250	40.13%	\$2,950.23
March	585	770	304	281	48.05%	\$2,402.52
April	496	652	174	321	64.88%	\$1,374.89
May	412	542	91	322	78.03%	\$715.31
June	323	426	1	322	99.65%	\$9.03
July	227	299	0	350	100.00%	\$0.00
August	197	260	0	319	100.00%	\$0.00
September	267	351	0	292	100.00%	\$0.00
October	374	493	127	247	66.07%	\$1,003.58
November	530	697	314	215	40.68%	\$2,482.27
December	963	872	475	188	28.37%	\$3,751.12
Conservative, Yearly Estimated Production:		3310.76		After solar est. bill		\$18,335.64
FINANCIAL Analysis						
YEAR	Cost W/O Solar	Yrly Gas Savings	O and M Cost	Cumulative Cash Flow	ASSUMPTIONS	
1	\$42,356	\$24,020	-881.05	-54,767.30	Discount Rate 6%	
2	\$46,591	\$26,422	-916.29	-38,345.19	Inflation Rate 3%	
3	\$51,250	\$29,064	-952.94	-9,280.88	Escalation of Annual O&M cost: 4%	
4	\$56,375	\$31,971	-991.06	22,689.87	Escalation of energy sales price: 10%	
5	\$62,013	\$35,168	-1,030.70	57,857.69		
6	\$68,214	\$38,685	-1,071.93	96,542.29		
7	\$75,036	\$42,553	-1,114.81	139,095.35		
8	\$82,539	\$46,808	-1,159.40	185,903.72		
9	\$90,793	\$51,489	-1,205.78	237,392.92		
10	\$99,873	\$56,638	-1,254.01	294,031.05		
11	\$109,880	\$62,302	-1,304.17	356,332.99		
12	\$120,846	\$68,532	-1,356.34	424,865.12		
13	\$132,930	\$75,385	-1,410.59	500,250.46	Internal rate of return: 31.76%	
14	\$146,223	\$82,924	-1,467.01	583,174.34	Approx payback: (Years) 3	
15	\$160,846	\$91,216	-1,525.69	674,390.61	Payback w/ Rebate 1.5 Years	
TOTALS	(\$1,345,747)	(\$763,178)		\$674,390.61	PAGE 2 of 4	

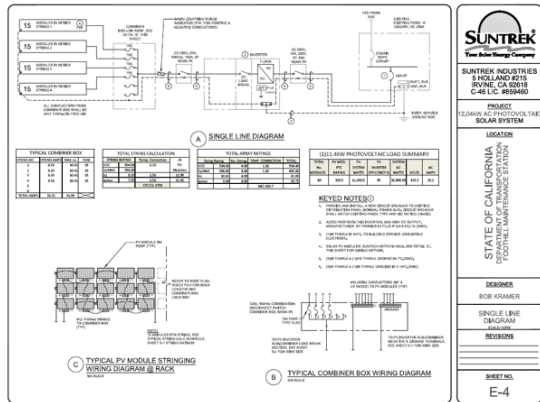
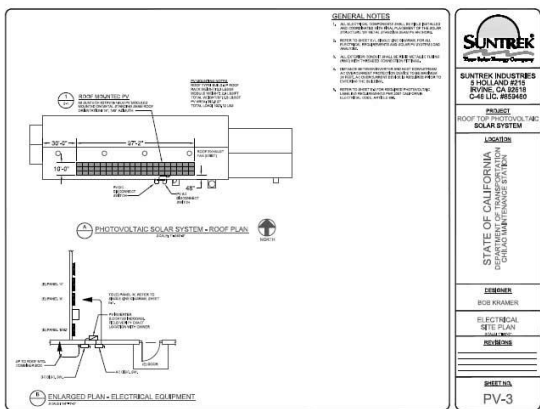


CASE STUDIES – Photovoltaics 11

State of California – Dept of Transportation Chilao, CA



Suntrek was hired to design and install a 60 Module Solar array for the Chilao Maintenance Station. This is one of many Caltrans projects that Suntrek has participated in.



COMMERCIAL & MULTIFAMILY PROJECTS



CASE STUDIES – Photovoltaics 12

South Shores Church

Dana Point, CA

Suntrek installed a large-scale solar photovoltaic system totaling over 100 KW. This installation was executed using a ballasted roofing attachment which limits roof penetrations up to 90%. This Non-profit entity capitalized on the Direct Pay Incentive offered by the Inflation Reduction Act. Making this attractive investment and even more compelling value to the church.



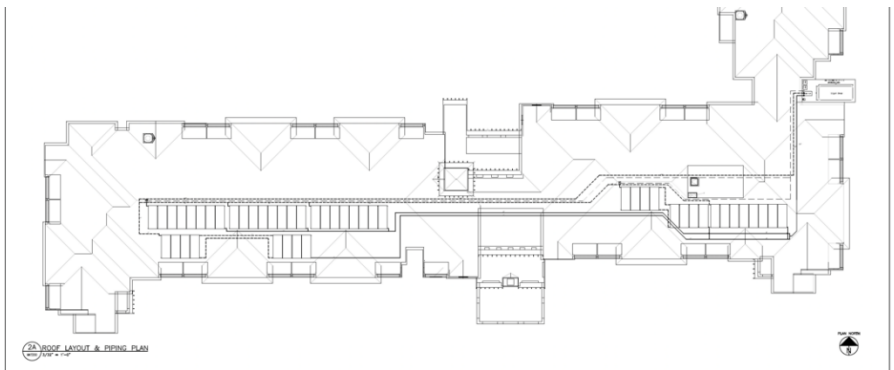
CASE STUDIES – The Solar Power of Three™ 13

Robertson Ranch Senior Apartments

Carlsbad, CA



Suntrek installed a large-scale solar pool heating and domestic water heating system as the main source of energy of the apartment boiler system. This 38 Collectors system will provide solar heated water to all the residences and will save investors hundreds of thousands of dollars through energy savings, rebates, and tax incentives



CASE STUDIES – The Solar Power of Three™ 14

McDonald's Restaurant

Riverside, CA

Suntrek designed and installed a photovoltaic carport structure and solar hot water heater on the first LEED certified McDonald's west of the Mississippi and the first McDonald's restaurant to use large scale PV.

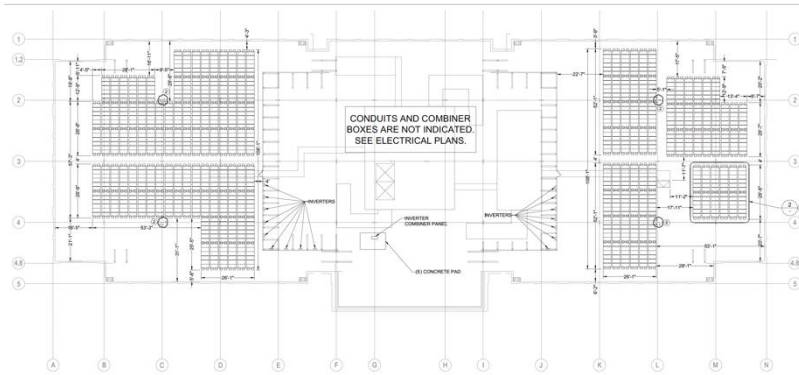


CASE STUDIES – Photovoltaics 15

Innovation Village – Research Center

Pomona, CA

Suntrek teamed up with Millie & Severson and Technospot to provide 89KW of solar power for a new building that will house 450 workers of Southern California Edison.

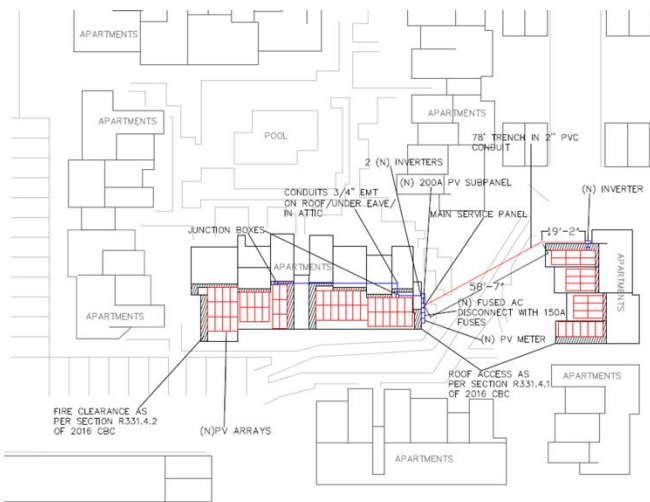


CASE STUDIES – The Solar Power of Three™ 16

Sunrise Apartments

Orange, CA

Suntrek designed and installed a complete “Power of Three” Solution for this apartment complex. Solar PV, Solar Pool Heating, and Solar Hot Water Heating (Domestic Hot Water).



CASE STUDIES – Swimming Pool Solar 17

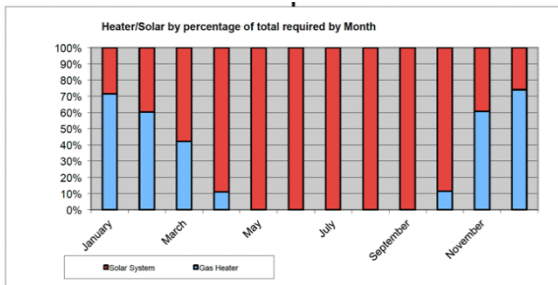
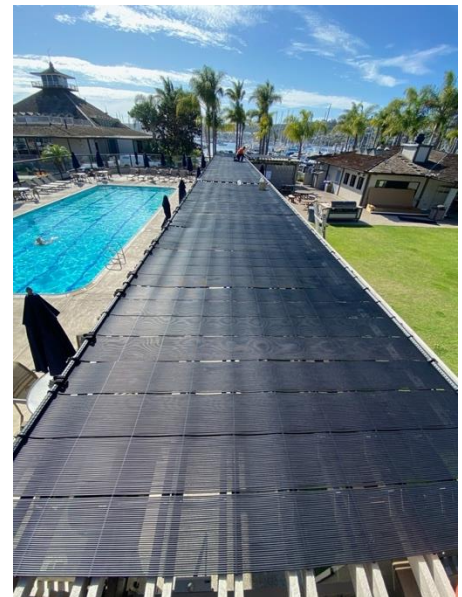
San Diego Yacht Club

San Diego, CA

Suntrek designed and installed a solar thermal pool heating system for the San Diego Yacht Club. The objective of this project was to provide as much monthly energy savings as possible without compromising the aesthetics of the yacht club. A patio cover installation was the perfect solution.



APPENDIX (A) PROJECT: SDYC Swimming Pool						
Section 1	San Diego, CA					
	POOL EST Load [10 ⁶ Btu]	Heater Load No solar	heater load with Solar	SOLAR Production [10 ⁶ Btu]	SOLAR Fraction [%]	ESTIMATED GAS BILL
January	167	220	119	48	28.57%	\$871.11
February	151	199	91	60	39.77%	\$666.02
March	136	178	57	78	57.74%	\$418.43
April	105	138	12	94	89.06%	\$84.03
May	81	107	0	99	100.00%	\$0.00
June	56	74	0	105	100.00%	\$0.00
July	22	29	0	103	100.00%	\$0.00
August	12	16	0	97	100.00%	\$0.00
September	39	51	0	83	100.00%	\$0.00
October	76	100	9	68	88.67%	\$63.14
November	129	170	78	51	39.29%	\$572.02
December	168	221	124	44	25.96%	\$906.59
Conservative, Yearly Estimated Production: 929.48				After solar est. bill		\$3,581.33

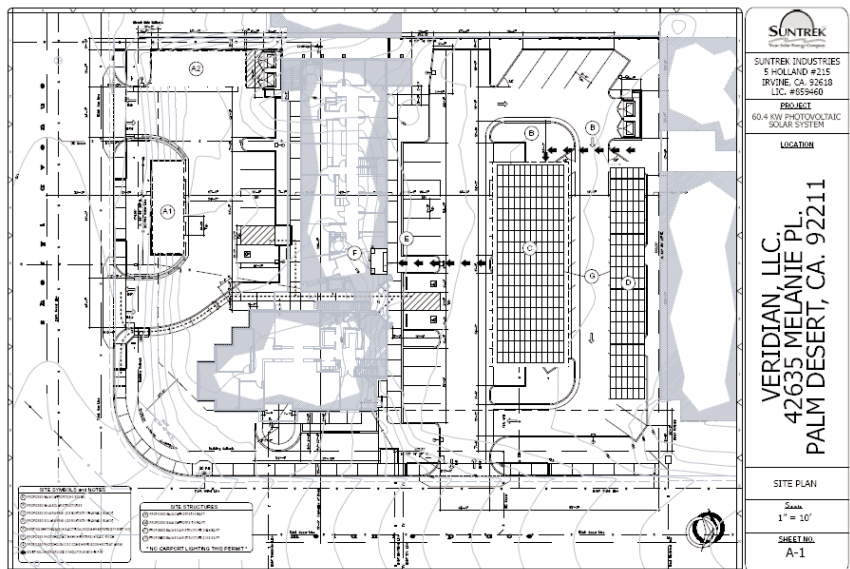


CASE STUDIES – Photovoltaics 18

Veridian Office Park

Palm Desert, CA

This Palm Desert Project is the first and largest commercial PV system approved under Palm Desert’s Energy Independence Program AB811 guidelines. This is a 60 KW system mounted on “Solar Structures” (Carports). Project was completed in September of 2009

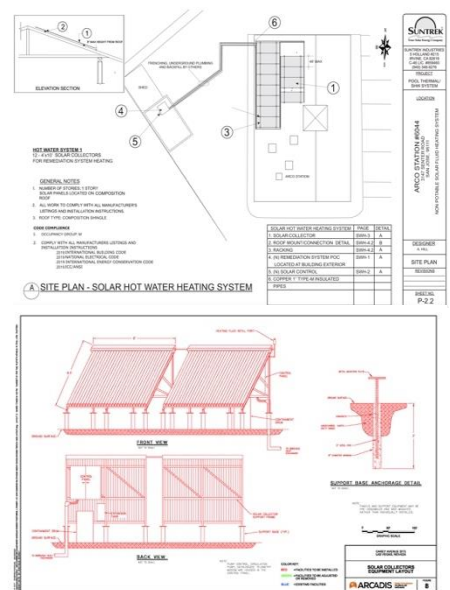


CASE STUDIES – Domestic Hot Water 19

Gas Station – Pollution Remediation

Las Vegas, NV + San Jose, CA

Suntrek has partnered with Arcadis to use cutting edge solar technology to clean our environment. Gas stations across the country must remediate underground petroleum storage tank leaks. With heat exchangers below the Earth’s surface and a solar hot water system, Arcadis can add an ingredient recipe that, when heated, is activated and absorbs and neutralizes the underground pollution

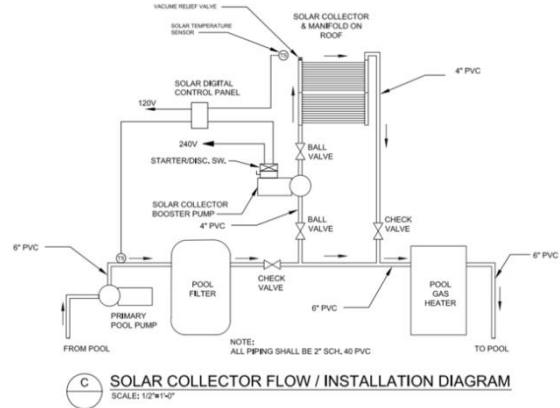
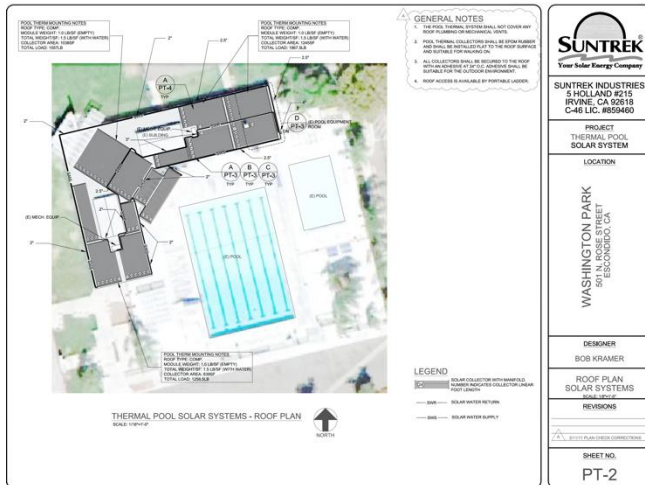
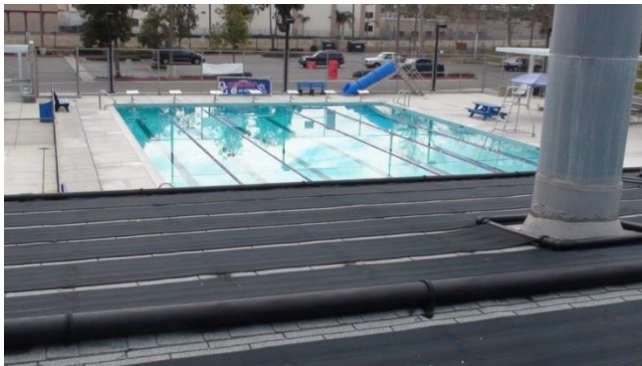


CASE STUDIES – Swimming Pool Solar 20

Washington Park

Escondido, CA

Suntrek designed and installed a solar thermal pool heating system for the Washington Park Community Pool. This project displays an installation of over 3600 sq ft of solar pool heating collectors which will provide this community swimming pool with tens of thousands in gas savings.



CASE STUDIES – Photovoltaics 21

Church of Jesus Christ of Latter-Day Saints

Farmington, Utah

This is the first of several proposed projects for the Church of Jesus Christ of Latter Day Saints. The 36KW system is expected to provide over 56,000 kwh's per year. Suntrek is now working on two more meeting house projects and three commercial projects for the Church

THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS



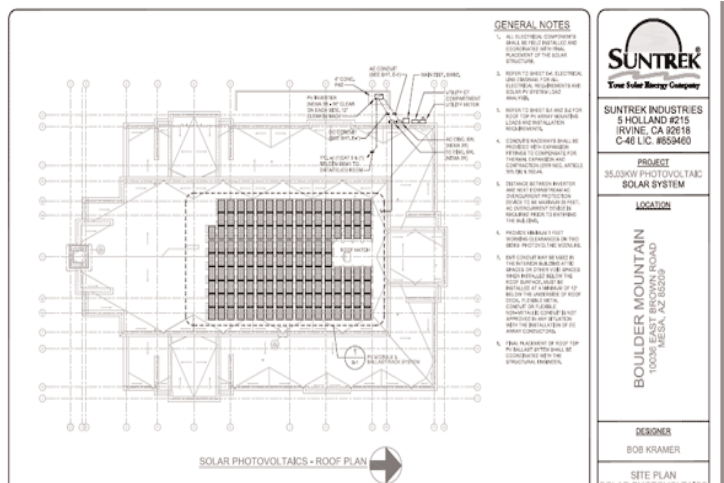
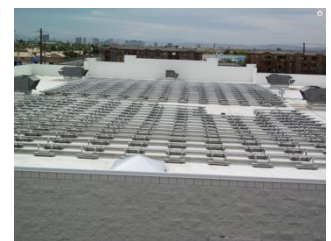
CASE STUDIES – Photovoltaics 22

Church of Jesus Christ of Latter-Day Saints Meeting House

Boulder Mountain, Arizona

This is the second meeting House that Suntlet converted to Solar PV for the Church. This structure had a low slope roof, enabling Suntlet to install a ballasted racking system that required no roof penetrations. System size was 35 KW

THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS



CASE STUDIES – Photovoltaics 24

San Diego Unified School District (SDUSD)

This 1.2 megawatt project involved thirteen schools in San Diego County. The PPA was financed through Morgan Stanley and Main Street Power.



CUSTOM HOME PROJECTS

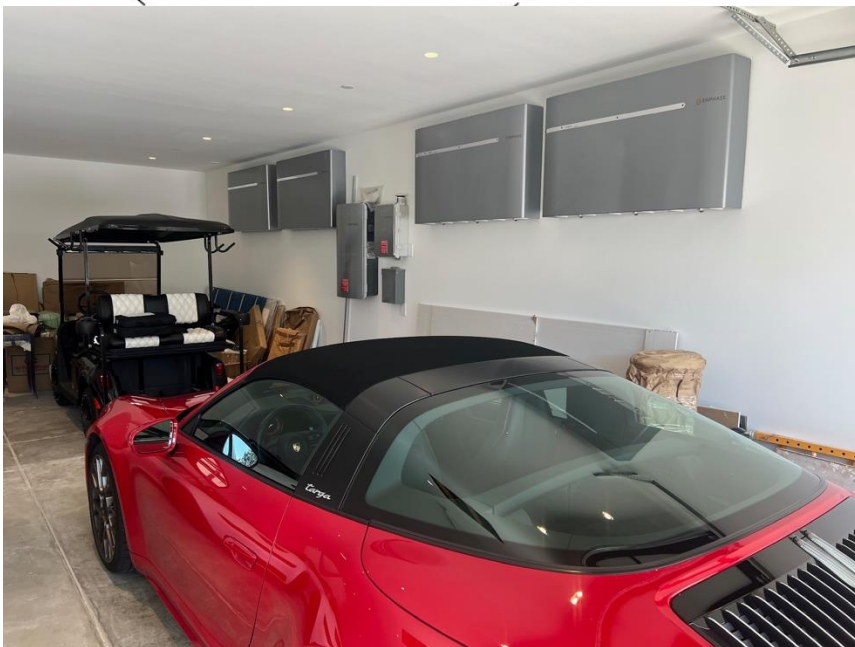
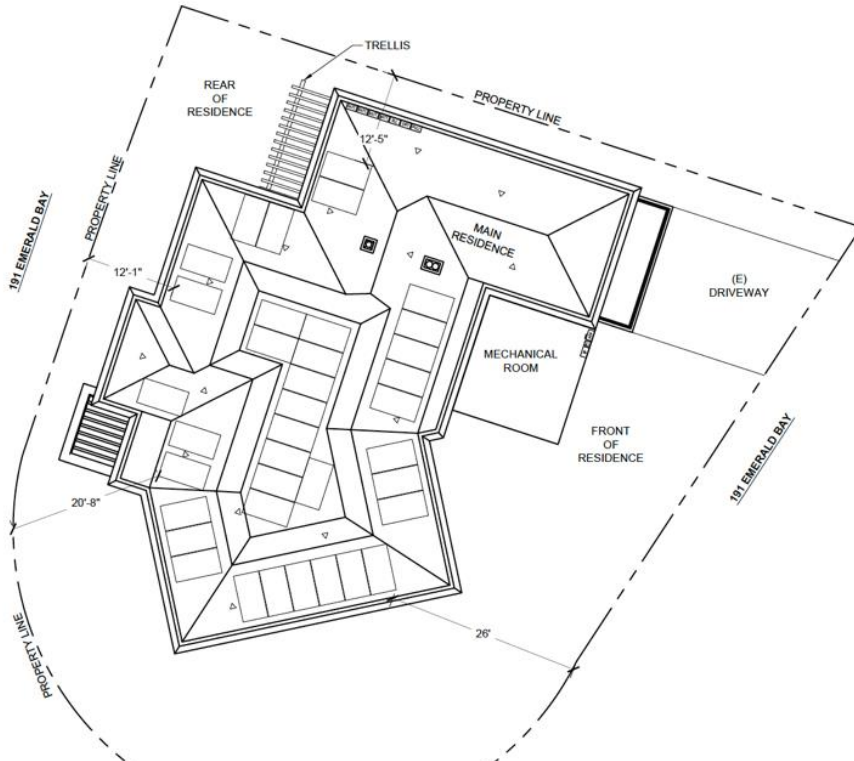


CASE STUDIES – PV + Energy Storage 25

Custom Home – Emerald Bay

Laguna Beach, CA

Suntrek designed and built a solar electric system paired with 42 kWh of energy storage and a solar pool heating solution for this custom home.

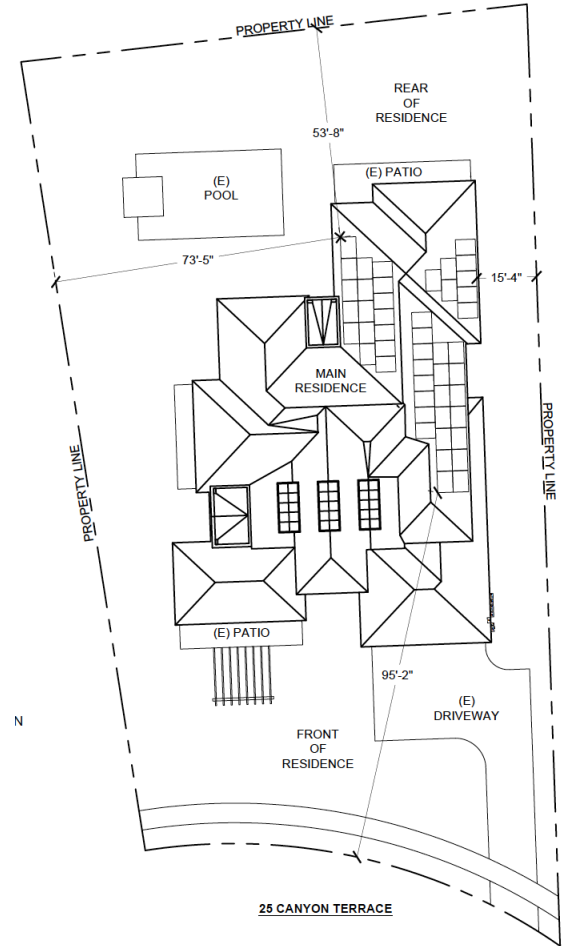


CASE STUDIES – PV + Energy Storage 26

Custom Home – Newport Coast

Newport Beach, CA

Suntrek designed and built a solar electric system paired with 21 kWh of energy storage. The installation was integrated into a Clay Tile Roof by modifying the roofing material in place. Allowing for proper installation and enhancing cosmetics of the project.

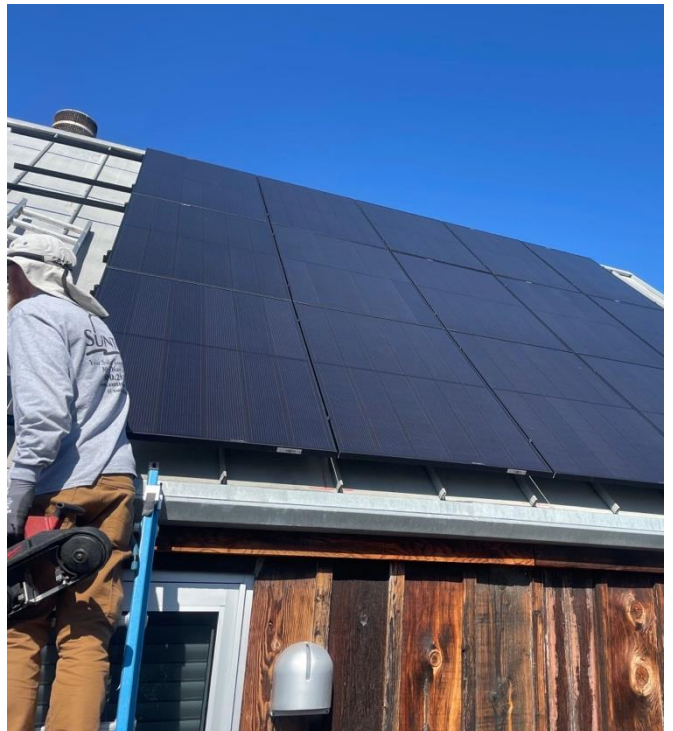
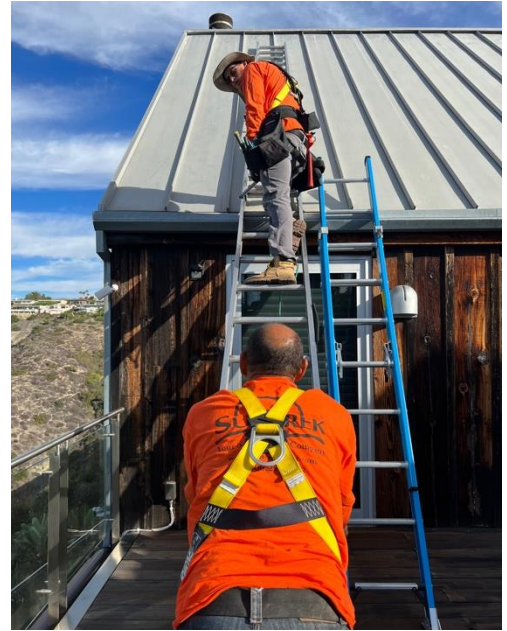


CASE STUDIES – Photovoltaics 27

Custom Home – Nyes Place

Laguna Beach, CA

This 11.2 kW PV solar array required custom roof attachments and a very technically challenging installation on this steep roof!

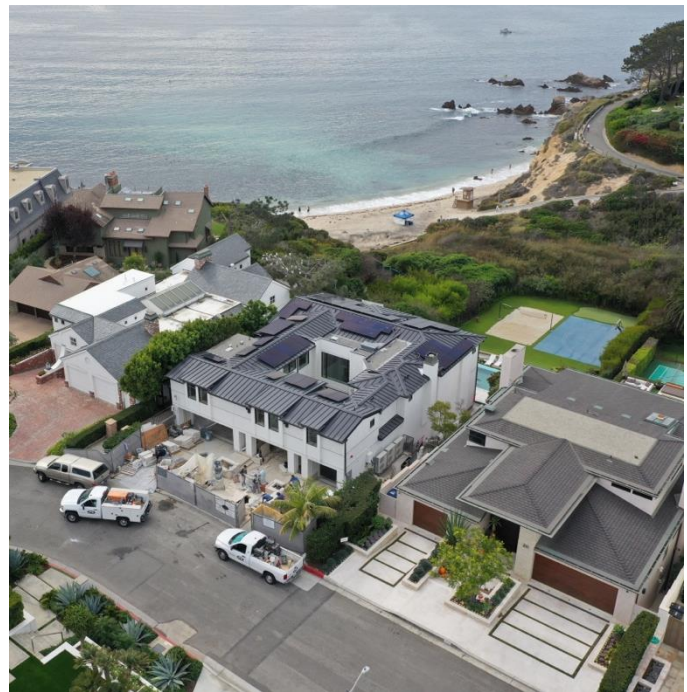
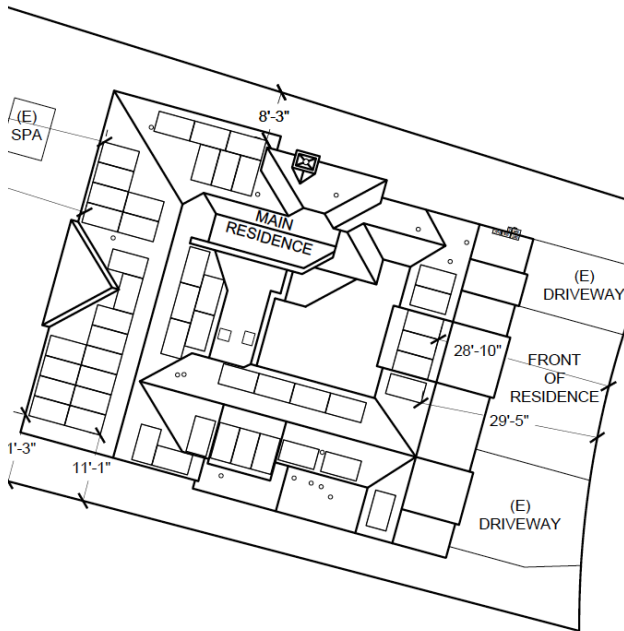


CASE STUDIES – PV + Energy Storage 28

Custom Home – Little Corona

Corona Del Mar, CA

This 19.2 kW PV solar array was paired with 42 KWH's of battery storage. Providing back up to critical loads (200 amps) in the home and enhancing energy savings.



CASE STUDIES – Photovoltaics 29

New American Home

Las Vegas, NV

Suntrek teamed with Blue Heron Builders to perform all of the solar installations on the New American Home, an award-winning green home in Las Vegas, NV



CASE STUDIES – The Solar Power of Three™ 30

Custom Home – St. Helena

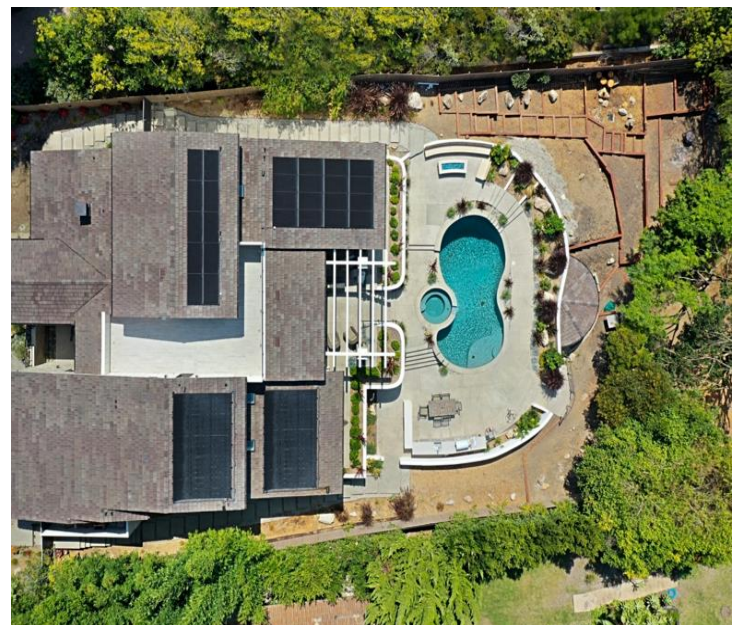
Suntrek designed and installed a solar electric system and energy storage system. Both systems were integrated into the design of the home to maximize aesthetics and performance of the solar energy system while not taking away from the design of the beautiful new home.



CASE STUDIES – The Solar Power of Three™ 31

Custom Home – Palos Verdes Estates

Suntrek designed and installed a solar thermal pool heating system and solar electric system. Both systems were integrated into the design of the home to maximize aesthetics and performance of the solar energy system while not taking away from the design of the beautiful new home.



SYSTEM SPECIFICATIONS	
SYSTEM	8.400
MODULE	126 SOLARA FINEST 120W/36V
INVERTER	2000W/24V/120V/240V/2000W
INVERTER TYPE	MICRO-INVERTER
STRING SCHEDULE	2 CIRCUITS OF 10 MODULES
SYSTEM WEIGHTING	1204.00
ARRAY AREA(S)	475.00
ARRAY AZIMUTH(Y)	271°
LEIS/LOSS	2.86

BUILDING SPECIFICATIONS	
TYPE	8.7 D
STORIES	2
BUILDING HEIGHT	24'
BUILDING SQFT	4187 SQ FT
ROOF SLOPES	11°
ROOF FRAME MEMBER	2X6 BATTEN
O.C. SPACING	12"
RAV. DIM.	1/4" BETWEEN SUPPORTS
DECK/SLAB EMBLEMMENT	1/2"

MOUNTING AND STANDOFF SPECIFICATIONS	
ROOFING MATERIAL	SHINGLE LAYER COMP
ROOFING SYSTEM	ROOFING
STANDOFF DISTANCE	4" Ø
MOUNTING TYPE	FLASH MOUNT
STIFFNESS HEIGHT (IN)	NA
HEIGHT OF PV MODULE ABOVE ROOF SURFACE	3" TO 3"
WIND CAPTURE	24"

ROOF MOUNTED NOTES:

1. SEE ELECTRICAL SPECIFICATIONS FOR ALL ELECTRICAL REQUIREMENTS. THIS INCLUDES THE FOLLOWING:

2. SEE ELECTRICAL SPECIFICATIONS FOR ALL ELECTRICAL REQUIREMENTS. THIS INCLUDES THE FOLLOWING:

3. SEE ELECTRICAL SPECIFICATIONS FOR ALL ELECTRICAL REQUIREMENTS. THIS INCLUDES THE FOLLOWING:

4. SEE ELECTRICAL SPECIFICATIONS FOR ALL ELECTRICAL REQUIREMENTS. THIS INCLUDES THE FOLLOWING:

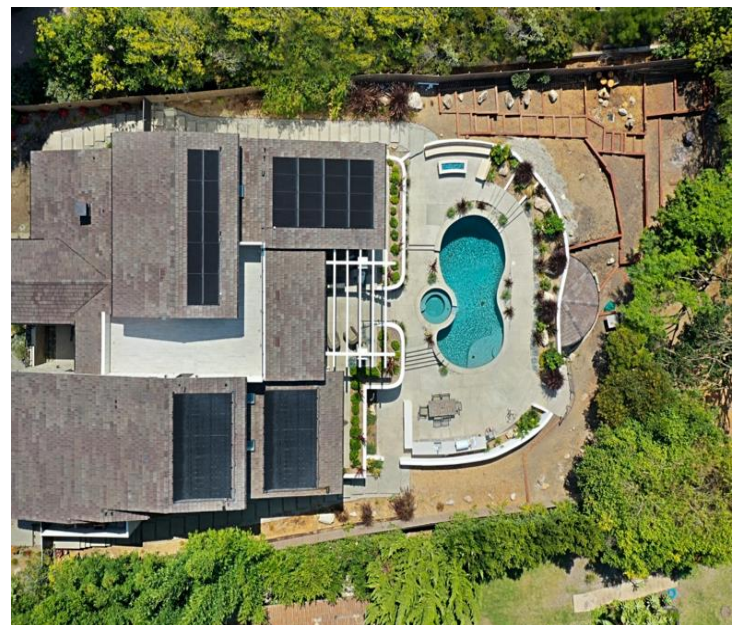
SYSTEM DETAILS:

1. 2 CIRCUITS OF 10 MODULES

2. 2000W/24V/120V/240V/2000W

3. 2000W/24V/120V/240V/2000W

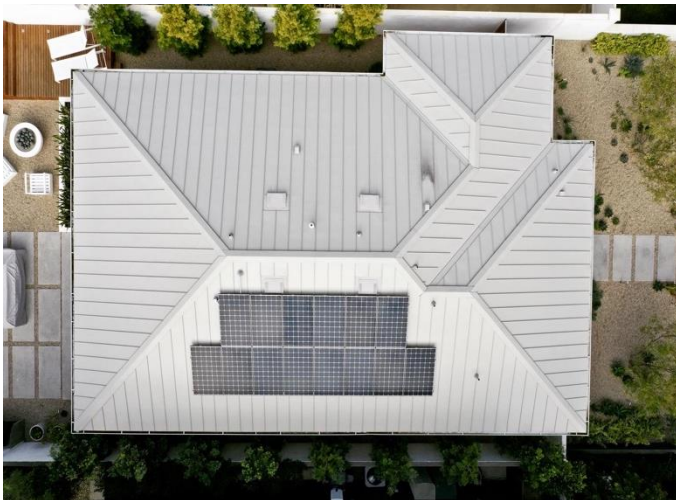
4. 2000W/24V/120V/240V/2000W



CASE STUDIES – Photovoltaics 32

Custom Home – Huntington Beach, CA

Suntrek designed and installed a solar electric system that was designed to maximize aesthetics and meet title 24 requirements. S-5 Clamps were used on the standing seam roof to prevent any roof penetrations.



CASE STUDIES – Photovoltaics 33

Custom Home – San Clemente, CA

Suntrek designed and installed a solar electric system that was designed to maximize aesthetics and meet title 24 requirements. Suntrek collaborated with Studio 6 Architects and Vaughn Builders to complete the project. Solaria Panels provide a sleek design that compliments the home design.



CASE STUDIES – The Solar Power of Three™ 34

Custom Home – Huntington Beach, CA

Suntrek designed and installed a solar electric system and solar pool heating system that was designed to make this home achieve “net zero” energy.



