GENERAL INFORMATION					
01	**Project Name**	Residential Example			
02	**Run Title**	Title 24 Analysis			
03	**Project Location**	7188 Pleasant Way			
04	**City**	San Bernardino	05	**Standards Version**	2025
06	**Zip code**	90000	07	**Software Version**	EnergyPro 10.0
08	**Climate Zone**	10	09	**Front Orientation (deg/ Cardinal)**	90
10	**Building Type**	Single family	11	**Number of Dwelling Units**	1
12	**Project Scope**	Newly Constructed	13	**Number of Bedrooms**	3
14	**Addition Cond. Floor Area (ft^2)**	0	15	**Number of Stories**	2
16	**Existing Cond. Floor Area (ft^2)**	n/a	17	**Fenestration Average U-factor**	0.28
18	**Total Cond. Floor Area (ft^2)**	2000	19	**Glazing Percentage (%)**	19.50%
20	**ADU Bedroom Count**	n/a	21	**ADU Conditioned Floor Area**	n/a
22	**Fuel Type**	Natural gas	23	**No Dwelling Unit:**	No

COMPLIANCE RESULTS	
01	**Building Complies with Computer Performance**
02	**This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.**
03	**This building incorporates one or more Special Features shown below**

Compliance Summary

	Long Term System Cost (LSC)[1]		Source Energy Use	Peak Cooling**
	Efficiency[2] ($/ft^2-yr)	Total[3] ($/ft^2-yr)	Total[3] (kBtu/ft^2-yr)	Electricity (kWh)
Standard Design	9.04	17.34	10.23	515
Proposed Design	8.04	11.03	5.84	409
Compliance Margins	1	6.31	4.39	106
	Pass	Pass	Pass	Pass

RESULT*: Complies

[1]Long-term System Cost (LSC) is a 30-year present value cost to California's energy system. LSC is not a predicted utility bill.

[2]Efficiency measures include energy efficient improvements such as better building envelope and more efficient mechanical equipment

[3]Total includes the sum of efficiency measures, solar photovoltaic (PV) measures and battery storage measures

* Building complies when Proposed Design is equal to or less than Standard Design in all three compliance categories

** Peak cooling target represents 120% of the standard design building peak cooling energy use.

LSC AND SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS

Energy Use	Standard Design Source Energy (kBtu/ft^2 -yr)	Standard Design LSC[1] ($/ft^2 -yr)	Proposed Design Source Energy (kBtu/ft^2 -yr)	Proposed Design LSC[1] ($/ft^2 -yr)	Compliance Margin Source (kBtu/ft^2 -yr)	Compliance Margin LSC[1] ($/ft^2 -yr)
Space Heating	0.86	1.97	2.21	3.24	-1.35	-1.27
Space Cooling	0.42	2.97	0.37	2.74	0.05	0.23
IAQ Ventilation	0.23	0.9	0.23	0.9	0	0
Water Heating	4.7	3.2	0.51	2.06	4.19	1.14
Self Utilization/Flexibility Credit			-1.15	-0.9	1.15	0.9
Efficiency Compliance Total	**6.21**	**9.04**	**2.17**	**8.04**	**4.04**	**1**
Photovoltaics And Battery	-1.17	-6.63	-1.2	-11.68		
Flexibility			0			
Indoor Lighting	0.5	1.75	0.5	1.75		
Appl. & Cooking	2.72	5.8	2.7	5.78		
Plug Loads	1.85	6.96	1.85	6.96		
Outdoor Lighting	0.12	0.42	0.12	0.42		
TOTAL COMPLIANCE	**10.23**	**17.34**	**5.84**	**11.03**		

ENERGY USE INTENSITY

	Standard Design (kBtu/ft^2 - yr)	Proposed Design (kBtu/ft^2 - yr)	Margin (kBtu/ft^2 - yr)	Margin Percentage
Gross EUI[1]	12.76	14.06	-1.3	-10.19
Net EUI[2]	5.15	6	-0.85	-16.5

Notes
1. Gross EUI is Energy Use Total (not including PV) / Total Building Area.
2. Net EUI is Energy Use Total (including PV) / Total Building Area.

REQUIRED PV SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	**Exception**	**Module Type**	**Array Type**	**Power Electronics**	**CFI**	**Azimuth (deg)**	**Tilt Input**	**Array Angle (deg)**	**Tilt: (x in 12)**	**Inverter Eff. (%)**	**Annual Solar Access (%)**
1	NA	Standard (14-17%)	Fixed	none	false	90	Degrees	22	4.85	96	100
1	NA	Standard (14-17%)	Fixed	none	false	180	Degrees	22	4.85	96	100
1	NA	Standard (14-17%)	Fixed	none	false	270	Degrees	22	4.85	96	100

BATTERY SYSTEMS

01	02	03	04	05	06	07
Control	**Capacity (kWh)**	**Charging**		**Discharging**		**Round Trip Efficiency**
		Charging Efficiency	**Charging Rate (kW)**	**Discharging Efficiency**	**Discharging Rate (kW)**	
Basic	12	0.95	n/a	0.95	n/a	0.9

REQUIRED SPECIAL FEATURES

The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.

- PV System: 3 kWdc
- Battery System: 12 kWh (Self Utilization Credit taken)
- Insulation below roof deck
- Non-standard duct location (any location other than attic)

ECC FEATURE SUMMARY

The following is a summary of the features that must be field-verified by a certified ECC Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the ECC Registry

- Indoor air quality ventilation
- Kitchen range hood
- Minimum Airflow
- Verified EER/EER2
- Verified SEER/SEER2
- Verified Refrigerant Charge
- Fan Efficacy Watts/CFM
- Duct leakage testing
- Ducts located entirely in conditioned space confirmed by duct leakage testing
- Compact distribution system expanded credit
- Drain water heat recovery system

BUILDING - FEATURES INFORMATION

01	02	03	04	05	06	07
Project Name	**Conditioned Floor Area (ft^2)**	**Number of Dwelling Units**	**Number of Bedrooms**	**Number of Zones**	**Number of Ventilation Cooling Systems**	**Number of Water Heating Systems**
Residential Example	2000	1	3	2	0	1

ZONE INFORMATION

01	02	03	04	05	06	07
Zone Name	**Zone Type**	**HVAC System Name**	**Zone Floor Area (ft^2)**	**Avg. Ceiling Height**	**Water Heating System 1**	**Status**
1st Floor Zone	Conditioned	Res HVAC1	1200	8	DHW Sys 1	New
2nd Floor Zone	Conditioned	Res HVAC1	800	8	DHW Sys 1	New

OPAQUE SURFACES SUMMARY

01	02	03	04	05	06	07	08
Name	**Zone**	**Construction**	**Azimuth**	**Orientation**	**Gross Area (ft^2)**	**Window and Door Area (ft2)**	**Tilt (deg)**
Front Wall	1st Floor Zone	R-21 Wall w/R-2	0	Right	320	81	90
Left Wall	1st Floor Zone	R-21 Wall w/R-2	90	Front	240	40	90
Back Wall	1st Floor Zone	R-21 Wall w/R-2	180	Left	320	88.7	90
Right Wall	1st Floor Zone	R-21 Wall w/R-2	270	Back	240	32	90
Front Wall 2	2nd Floor Zone	R-21 Wall w/R-2	0	Right	320	60	90
Left Wall 2	2nd Floor Zone	R-21 Wall w/R-2	90	Front	240	24	90
BackWall	2nd Floor Zone	R-21 Wall w/R-2	180	Left	320	70	90
Right Wall 2	2nd Floor Zone	R-21 Wall w/R-2	270	Back	240	32	90
Wall to Garage	1st Floor Zone>>__Garage__	R-13 Wall	n/a	n/a	100	20	n/a
R-38 Roof	1st Floor Zone	R-38 HP Attic	n/a	n/a	500	n/a	n/a
R-38 Roof 2	2nd Floor Zone	R-38 HP Attic	n/a	n/a	800	n/a	n/a
GarageRoof	__Garage__	R-30 Roof Attic	n/a	n/a	340	n/a	n/a
Interior Floor	2nd Floor Zone	R-0 Floor No Crawlspace	n/a	n/a	700	n/a	n/a
Floor over Garage	2nd Floor Zone	R-19 Floor No Crawlspace	n/a	n/a	100	n/a	n/a
GarageWallFront	__Garage__	Garage Ext Wall	0	Right	180	128	90
GarageWallLeft	__Garage__	Garage Ext Wall	90	Front	198	0	90
GarageWallRight	__Garage__	Garage Ext Wall	270	Back	108	0	90

ATTIC

01	02	03	04	05	06	07	08a
Name	**Construction**	**Type**	**Roof Rise (x in 12)**	**CRRC Rated Roof Reflectance**	**CRRC Rated Roof Emittance**	**Radiant Barrier**	**Above Roof Deck Air Gap**
Attic __Garage__	Attic Garage Roof Cons	Ventilated	4	0.1	0.85	Yes	No
Attic 1st Floor Zone	Attic Roof1st Floor Zone	Ventilated	4	0.1	0.85	No	No

ATTIC

01	02	03	04	05	06	07	08a
Name	**Construction**	**Type**	**Roof Rise (x in 12)**	**CRRC Rated Roof Reflectance**	**CRRC Rated Roof Emittance**	**Radiant Barrier**	**Above Roof Deck Air Gap**
Attic 2nd Floor Zone	Attic Roof2nd Floor Zone	Ventilated	4	0.1	0.85	No	No

FENESTRATION / GLAZING

01	02	03	04	05	06	07	08	09	10
Name	**Type**	**Surface**	**Orientation**	**Azimuth**	**Mult.**	**Area (ft^2)**	**U-factor**	**SHGC**	**Rating Source**
Front Windows	Window	Front Wall	Right	0	1	60	0.28	0.2	NFRC
Left Windows	Window	Left Wall	Front	90	1	40	0.28	0.2	NFRC
Back Windows	Window	Back Wall	Left	180	1	72	0.28	0.2	NFRC
Right Windows	Window	Right Wall	Back	270	1	32	0.28	0.2	NFRC
Front Windows 2	Window	Front Wall 2	Right	0	1	60	0.28	0.2	NFRC
Left Windows 2	Window	Left Wall 2	Front	90	1	24	0.28	0.2	NFRC
Back Windows 2	Window	BackWall	Left	180	1	70	0.28	0.2	NFRC
Right Windows 2	Window	Right Wall 2	Back	270	1	32	0.28	0.2	NFRC

Total North Facing Fenestration	64
Total East Facing Fenestration	120
Total South Facing Fenestration	64
Total West Facing Fenestration	142

OPAQUE DOORS

01	02	03	04	05
Name	**Side of Building**	**Area (ft^2)**	**U-factor**	**Status**
Entry Door	Front Wall	21	0.2	
Back Door	Back Wall	16.7	0.2	
Door	Wall to Garage	20	0.2	
GarageCarDoorFront	GarageWallFront	128	0.7	

SLAB FLOORS

01	02	03	04	05	06	07
Name	**Zone**	**Area (ft^2)**	**Perimeter (ft)**	**Edge Insul. R-value**	**Edge Insul. Depth**	**Heated**
Slab-on-Grade	1st Floor Zone	1200	160	none	0	No
GarageSlab	__Garage__	440	54	none	0	No

OPAQUE SURFACE CONSTRUCTIONS

01	02	03	04	05	06	07	08
Construction Name	**Surface Type**	**Construction Type**	**Framing**	**Total Cavity R-value**	**Interior / Exterior Continuous R-value**	**U-factor**	**Assembly Layers**
Garage Ext Wall	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O. C.	R-0	None / None	0.361	Inside Finish: Gypsum Board Cavity / Frame: no insul. / 2x4 Exterior Finish: 3 Coat Stucco
R-21 Wall w/R-2	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-21	None / 2	0.058	Inside Finish: Gypsum Board Cavity / Frame: R-21 / 2x6 Sheathing / Insulation: R-2 Sheathing Exterior Finish: 3 Coat Stucco
R-13 Wall	Interior Walls	Wood Framed Wall	2x4 @ 16 in. O. C.	R-13	None / None	0.092	Inside Finish: Gypsum Board Cavity / Frame: R-13 / 2x4 Other Side Finish: Gypsum Board

OPAQUE SURFACE CONSTRUCTIONS

01	02	03	04	05	06	07	08
Construction Name	**Surface Type**	**Construction Type**	**Framing**	**Total Cavity R-value**	**Interior / Exterior Continuous R-value**	**U-factor**	**Assembly Layers**
Attic Garage Roof Cons	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-0	None / 0	0.644	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4
Attic Roof1st Floor Zone	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-19	None / 0	0.059	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-13.0 / 2x4 Around Roof Joists: R-6.0 insul.
Attic Roof2nd Floor Zone	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-19	None / 0	0.059	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-13.0 / 2x4 Around Roof Joists: R-6.0 insul.
R-30 Roof Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-30	None / None	0.032	Over Ceiling Joists: R-20.9 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board
R-38 HP Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-38	None / None	0.025	Over Ceiling Joists: R-28.9 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board
R-0 Floor No Crawlspace	Interior Floors	Wood Framed Floor	2x12 @ 16 in. O. C.	R-0	None / None	0.196	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x12 Ceiling Below Finish: Gypsum Board

OPAQUE SURFACE CONSTRUCTIONS

01	02	03	04	05	06	07	08
Construction Name	**Surface Type**	**Construction Type**	**Framing**	**Total Cavity R-value**	**Interior / Exterior Continuous R-value**	**U-factor**	**Assembly Layers**
R-19 Floor No Crawlspace	Interior Floors	Wood Framed Floor	2x10 @ 16 in. O. C.	R-19	None / None	0.045	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-19 / 2x10 Ceiling Below Finish: Gypsum Board

WATER HEATING SYSTEMS

01	02	03	04	05	06	07	08	09
Name	**System Type**	**Distribution Type**	**Water Heater Name**	**Number of Units**	**Solar Heating System**	**Compact Distribution**	**ECC Verification**	**Water Heater Name (#)**
DHW Sys 1	Domestic Hot Water (DHW)	Standard	DHW Heater 1	1	n/a	Expanded	DHW Sys 1-hers-dhw	DHW Heater 1 (1)

WATER HEATERS

01	02	03	04	05	06	07	08	09	10	11	12	13
Name	**Heating Element Type**	**Tank Type**	**# of Units**	**Tank Vol. (gal)**	**Heating Efficiency Type**	**Efficiency**	**Rated Input Type**	**Input Rating or Pilot**	**Tank Insulation R-value (Int/Ext)**	**Standby Loss or Recovery Eff**	**1st Hr. Rating or Flow Rate**	**Tank Location**
DHW Heater 1	Heat Pump	Small Storage	1	40	EF	3.2	n/a	<= 12 kW	n/a	n/a	n/a	Garage

WATER HEATING - COMPACT DISTRIBUTION						
01	**02**	**03**	**04**	**05**	**06**	**07**
Dwelling Unit type	**Water Heating System Name**	**Master Bath distance of furthest fixture to Water Heater (ft)**	**Kitchen distance of furthest fixture to Water Heater (ft)**	**Furthest Third furthest fixture to Water Heater (ft)**	**Compactness Factor**	**ECC Verification**
Dwelling	DHW Sys 1	n/a	n/a	n/a	0.6	Expanded Credit

WATER HEATING - DRAIN WATER HEAT RECOVERY					
01	**02**	**03**	**04**	**05**	**06**
Dwelling Unit type	**DHW System and DWHR Names**	**Installation Configuration**	**Shower Drains**	**Shower Drain Water Heat Recovery Efficiency (%)**	**ECC Verification**
Dwelling	DHW Sys 1 - 1 - DWHR-1	Equal Flow	2	43	Required

HVAC - HEATING UNIT TYPES			
01	**02**	**03**	**04**
Name	**System Type**	**Number of Units**	**Heating Efficiency**
Heating Component 1	Central gas furnace	1	AFUE - 96

HVAC - COOLING UNIT TYPES									
01	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**
Name	**System Type**	**Number of Units**	**Efficiency Metric**	**Efficiency EER/EER2/CEER**	**Efficiency SEER/SEER2**	**Airflow Target**	**Fan Power (Watts/CFM}**	**Status**	**Verified Existing Condition**
Cooling Component 1	Central split AC	1	EER2/SEER2	12.2	15	350	0.45	New	n/a

HVAC - DISTRIBUTION SYSTEMS

01	02	03	04	05	06	07
Name	**Type**	**Design Type**	**Duct Ins. R-value**		**Duct Location**	
			Supply/Return		**Supply**	**Return**
Air Distribution System 1	Conditioned space-entirely	Non-Verified	R-8		Conditioned Zone	Conditioned Zone

INDOOR AIR QUALITY (IAQ) FANS

01	02	03	04	05	06	07	08
Dwelling Unit	**Airflow (CFM)**	**Fan Efficacy (W/CFM)**	**IAQ Fan Type**	**Includes Heat/Energy Recovery?**	**IAQ Recovery Effectiveness - ASRE**	**Includes Fault Indicator Display?**	**Status**
SFam IAQVentRpt	87	0.35	Exhaust	No	n/a / n/a	No	

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name:	Documentation Author Signature:
Company: EnergySoft	Signature Date: 9/10/2025
Address:	CEA/AEA/ECC Certification Identification (if applicable):
City/State/Zip: ,	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building and shall be made available to the enforcement agency for all applicable inspections. I will take the necessary steps to fulfill this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. I will take the necessary steps to fulfill this requirement.

Responsible Designer Name: Rob Parker	Responsible Designer Signature:
Company: Bernard Parker & Assoc.	Date Signed:
Address: 573 Oak Drive	License:
City/State/Zip: Sacramento, CA 95000	Phone: (415) 256-5555