Project Name: 1 Story Example PV+Battery

Calculation Description: 1 Story Example

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GENER	AL INFORMATION			.9							
01	Project Name	tory Example PV+Battery									
02	Run Title	1 Story Example	tory Example								
03	Project Location	715 P Street	15 P Street								
04	City	Sacramento, CA	acramento, CA 05 Standards Ve								
06	Zip code	95814	07	Software Version	CBECC-Res 2022.2.1						
08	Climate Zone	12	09	Front Orientation (deg/ Cardinal)	0						
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 <sup>2</sup> )	0	15	Number of Stories	1						
16	Existing Cond. Floor Area (ft <sup>2</sup> )	n/a	17	Fenestration Average U-factor	0.3						
18	Total Cond. Floor Area (ft <sup>2</sup> )	2100	19	Glazing Percentage (%)	18.60%						
20	ADU Bedroom Count	n/a									
COMPLIANCE RESULTS											
	01 Building Complies with Computer Performance										
			by a c	ertified HERS rater under the supervision of a	CEC-approved HERS provider.						
	03 This building incorporates one or i	This building incorporates one or more Special Features shown below									

es one or more Special Fearm.

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NERGY DESIGN RATINGS				,6			
		Energy Design Ratings		0	Compliance Margins		
	Source Energy (EDR1)	Efficiency <sup>1</sup> EDR (EDR2efficiency)	Total <sup>2</sup> EDR (EDR2total)	Source Energy (EDR1)	Efficiency <sup>1</sup> EDR (EDR2efficiency)	Total <sup>2</sup> EDR (EDR2total)	
Standard Design	42.9	43.2	33.9		· · ·		
Proposed Design	38.1	41.9	27.3	4.8	1.3	6.6	
		RESULT	<sup>3</sup> : PASS				
Building complies when source energy, efficient Standard Design PV Capacity: 2.80 kWdc PV System resized to 2.80 kWdc (a factor o		ndard Design PV' PV scaling					
	Cort						

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ENERGY USE SUMMARY				.6		
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft <sup>2</sup> -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft <sup>2</sup> -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	6.6	28.95	6.67	29.2	-0.07	-0.25
Space Cooling	0.42	14.92	0.31	11.15	0.11	3.77
IAQ Ventilation	0.33	3.56	0.33	3.56	0	0
Water Heating	1.39	14.67	1.61	16.42	-0.22	-1.75
Self Utilization/Flexibility Credit				0		0
Efficiency Compliance Total	8.74	62.1	8.92	60.33	-0.18	1.77
Photovoltaics	-1.09	-36.85	-1.09	-38.79		
Battery		6	-1.74	-11.98		
Flexibility		J.C				
Indoor Lighting	0.74	7.43	0.74	7.43		
Appl. & Cooking	2.86	19.63	2.86	19.63		
Plug Loads	2.59	27.07	2.59	27.07		
Outdoor Lighting	0.19	1.72	0.19	1.72		
TOTAL COMPLIANCE	14.03	81.1	12.47	65.41		



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ENERGY USE INTER	NSITY								2				
			Standard Des	ign (kBtu	/ft <sup>2</sup> - yr )	Proposed Design (kBtu/f	t <sup>2</sup> - yr )	Complianc	e Margin	n (kBtu/ft <sup>2</sup> - yr )		Margin Percen	tage
Gros	s EUI <sup>1</sup>			18.29		18.63			-0.34	1		-1.86	
Net	EUI <sup>2</sup>			11.17		11.5 -0.33 -2.95							
Notes 1. Gross EUI is E 2. Net EUI is End		-			-	Q	5						
REQUIRED PV SYS	TEMS					6							
01		02	03 04		04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exc	ception	Module 1	уре	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
2.8		NA	Standard (14	4-17%)	Fixed	none	true	150-270	n/a	n/a	<=7:12	96	98
BATTERY SYSTEMS	;					0			-				
01			02		03	04		05		0	6		)7
Control	Control Capac		ity (kWh)			arging				arging		- Round Tri	p Efficiency
			,, ,	Char	ging Efficiency	Charging Rate (kW	)	Discharging Effi	ciency	Discharging Rate (kW)			
Basic			5		0.95	n/a		0.95		n	′a	0.9	

5 Contraction

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REQ	QUIRED SPECIAL FEATURES	
The	e following are features that must be installed as condition for meeting the modeled er	nergy performance for this computer analysis.
•	PV System: 2.8 kWdc	
•	Battery System: 5 kWh	
•	Whole house fan	NK.
	Cool roof	

Cool root

- Insulation below roof deck
- Window overhangs and/or fins
- Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed

### HERS FEATURE SUMMARY

The following is a summary of the features that must be field-verified by a certified HERS 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 HERS Registry

- Quality insulation installation (QII)
- Indoor air quality ventilation
- Kitchen range hood
- Whole house fan airflow and fan efficacy
- Minimum Airflow
- Verified Refrigerant Charge
- Fan Efficacy Watts/CFM
- Duct leakage testing

#### **BUILDING - FEATURES INFORMATION**

01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft <sup>2</sup> )	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
1 Story Example PV+Battery	2100	1	3	1	1	1

ZONE INFORMATION						
01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft <sup>2</sup> )	Avg. Ceiling Height	Water Heating System 1	Status
Conditioned	Conditioned	HVAC System 1	2100	9	DHW System	New

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OPAQUE SURFACES										9				
01		02	0	3		04		05		06	0	)7		08
Name		Zone	Constr	uction	Az	imuth	c	rientation	Gro	ss Area (ft <sup>2</sup> )		and Door (ft2)		Tilt (deg)
Front	(	Conditioned	R21 R5 St	ucco Wall		0		Front		270	146	6.25		90
Left	(	Conditioned	R21 R5 St	ucco Wall		90		Left		324	7	/2		90
Back	(	Conditioned	R21 R5 St	ucco Wall	180			Back		450	154	4.02		90
Right	(	Conditioned	R21 R5 St	ucco Wall		270		Right		414	3	8		90
GarToHouse Front	Cond	itioned>>Garage	Gar Hou	use R21	n/a			n/a		180	2	20		n/a
GarToHouse Left	Cond	itioned>>Garage	Gar Hou	use R21		n/a	6	n/a		90		0		n/a
Gar Ceiling	Gar Ceiling Garage		R0 ClgBlw	Attic Cons		n/a		n/a		440	n	/a		n/a
Ceiling (below attic) 1 Conditioned		Conditioned	R38 Ceiling	below attic		n/a		n/a		2100		/a		n/a
Gwall Front Garage		Garage	Garage	Wall R-0	0			Front		180		108		90
Gwall Left		Garage	Garage	Wall R-0		90		Left		198		0		90
Gwall Right		Garage	Garage	Wall R-0		270		Right		108		0		90
ATTIC					6									
01		02	0	3		04		05		06	0	)7		08
Name	0	Construction	Ту	pe	Roof R	ise (x in 1	2) Roo	f Reflectar	ice Roc	f Emittance	Radian	t Barrier		Cool Roof
Gar Attic		Tile Roof	Venti	lated		5		0.2		0.85	Ν	lo		No
Attic	Tile F	R-19 below deck	Venti	lated		5		0.2 0.85		No			Yes	
FENESTRATION / GLA	ZING		- A	<u> </u>										
01			04	05	06	07	08	09	10	11	12	13		14
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft <sup>2</sup> )	U-factor	U-factor Source	SHGC	SHGC Sour	rce	Exterior Shadin
F-6060	Window	Front	Front	0	6	6	1	36	0.3	NFRC	0.23	NFRC		Bug Screen
F-4050 x3	Window	Front	Front	0	4	5	3	60	0.3	NFRC	0.23	NFRC		Bug Screen

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01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft <sup>2</sup> )	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shadin
F-1660 x2	Window	Front	Front	0	1.5	6	2	18	0.3	NFRC	0.23	NFRC	Bug Screen
F-3636	Window	Front	Front	0	3.5	3.5	1	12.25	0.3	NFRC	0.23	NFRC	Bug Screen
L-5040 x2	Window	Left	Left	90	5	4	2	40	0.3	NFRC	0.23	NFRC	Bug Screen
L-4040 x2	Window	Left	Left	90	4	4	2	32	0.3	NFRC	0.23	NFRC	Bug Screen
B1 SGD	Window	Back	Back	180	6	6.67	1	40.02	0.3	NFRC	0.23	NFRC	Bug Screen
B-6010	Window	Back	Back	180	6	1	1	6	0.3	NFRC	0.23	NFRC	Bug Screen
B-6040 x3	Window	Back	Back	180	6	4	3	72	0.3	NFRC	0.23	NFRC	Bug Screen
B-6050	Window	Back	Back	180	6	5	1	30	0.3	NFRC	0.23	NFRC	Bug Screen
B-3020	Window	Back	Back	180	3	2	1	6	0.3	NFRC	0.23	NFRC	Bug Screen
R-3030 x2	Window	Right	Right	270	3	3	2	18	0.3	NFRC	0.23	NFRC	Bug Screen
R-4050	Window	Right	Right	270	4	5	1	20	0.3	NFRC	0.23	NFRC	Bug Screen
PAQUE DOORS	•		• 		•								•
	01			02					03			04	
	Name		, Ś	Side of Buildi	ng				Area (ft <sup>2</sup> )			U-factor	
Front Dr				Front					20			0.2	
GarToHouse Dr GarToHouse Front								20			0.5		
GDoor Gwall Front												1	

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03

Dist Up

1.33

1.33

1.33

04

Overhang

Left Extent

3

6

3

05

Right

Extent

10

6

3

06

Flap Ht.

0

0

0

07

Depth

0

0

0

02

Depth

1

1

4

Project Name: 1 Story Example PV+Battery

Calculation Description: 1 Story Example

	F-3636	1	1.33	10	10	0	0	0	0	0	0	0	0
	B1 SGD	6	1.33	4	4	0	0	0	0	0	0	0	0
	B-6010	1	0	4	4	0	0	0	0	0	0	0	0
	B-6040 x3	1	1.33	23	23	0	0	0	0	0	0	0	0
	B-6050	1	1.33	10	10	0	0	0	0	0	0	0	0
	B-3020	1	1.33	10	10	0	0	0	0	0	0	0	0
ſ	SLAB FLOORS												_
ſ	01	02		03		04		05		06		07	
	Name	Zone		Area (ft <sup>2</sup> )	Per	rimeter (ft)		nsul. R-value d Depth		Edge Insul. R-value and Depth		ed Fraction	
	Gslab	Garage		440		44		none		0		0%	
ſ	Slab On Grade	Conditioned		2100		162		none		0	8	80%	

# OVERHANGS AND FINS

Window

F-6060

F-4050 x3

F-1660 x2

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09

Dist L

0

0

0

10

Bot Up

0

0

0

11

Depth

0

0

0

12

Top Up

0

0

0

**Right Fin** 

13

Dist R

0

0

0

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Left Fin

08

Top Up

0

0

0

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14

Bot Up

0

0

0

0

0

0

0

0

0

08

Heated

No

No

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OPAQUE SURFACE CONSTRUCTIONS											
01	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 Wall R-0	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-0	None / None	0.347	Inside Finish: Gypsum Board Cavity / Frame: no insul. / 2x6 Exterior Finish: 3 Coat Stucco				
R21 R5 Stucco Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-21	None / 5	0.048	Inside Finish: Gypsum Board Cavity / Frame: R-21 / 2x6 Sheathing / Insulation: R-5 Sheathing Exterior Finish: Synthetic Stucco				
Gar House R21	Interior Walls	Wood Framed Wall	2x4 @ 16 in. O. C.	R-21 None / None		0.075	Inside Finish: Gypsum Board Cavity / Frame: R-21 / 2x4 Other Side Finish: Gypsum Board				
Tile R-19 below deck	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-19	None / None	0.049	Roofing: 10 PSF (RoofTileAirGap) Tile Gap: present Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-13.0 / 2x4 Under Roof Joists: R-6.0 insul.				
Tile Roof	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-0	None / None	0.4	Roofing: 10 PSF (RoofTileAirGap) Tile Gap: present Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4				
R0 ClgBlwAttic Cons	Ceilings (below attic)	Wood Framed Ceiling	2x4 Bottom Chord of Truss @ 24 in. O. C.	R-0	None / None	0.481	Cavity / Frame: no insul. / 2x4 Btm Chrd Inside Finish: Gypsum Board				
R38 Ceiling below attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 Bottom Chord of Truss @ 24 in. O. C.	R-38	None / None	0.025	Over Ceiling Joists: R-28.9 insul. Cavity / Frame: R-9.1 / 2x4 Btm Chrd Inside Finish: Gypsum Board				

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BUILDING ENVELOP	E - HERS VERIFICA	TION								5				
01		02				0	3		04				05	
Quality Insulation	ion Installation (QII) High R-value Spray Foam			m Insulation Building Envelope Air Leakage			CFM50				CFM50			
Requi	red	Not Required			N/A			n/a				n/a		
WATER HEATING SYS	STEMS													
01	02	03		04	04 0		)5		06	07		08		09
Name	System Type	Dist	tribution Type	Water Heat	Heater Name Number of Units Solar Heating Compact System Distribution		HERS Verification		Water Heater Name (#)					
DHW System	Domestic Ho Water (DHW	Standard Hea		Heat Pu	ump 1				n/a Nor		one	n/a		Heat Pump (1)
WATER HEATERS - N	EEA HEAT PUMP													
01	02	03		04		14	(	)5		06		07		08
Name	# of Un	iits	Tank Vol. (	Tank Vol. (gal)		A Heat Pump NEEA Heat Pum Brand Model		p Tank Location		n Du	Duct Inlet Air Source		ct Outlet Air Sourc	
Heat Pump	1	50		Generic WhirlpoolHPSE2K		<50 Garage			Outside		Outside			
WATER HEATING - H	ERS VERIFICATION	1												
01		02		03	03		04		05			06		07
Name	Pipe	Insulation	Pa	arallel Piping		Compact Distribution		Co	Compact Distribution Type		Recirculation Control		Show	er Drain Water Hea Recovery
DHW System - 1	/1 Not	Required	Required N			Not Required			None		Not	Required		Not Required



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	03 Heating Unit Name	04 Heating Equipment	05	06	07	08		09
	leating Unit Name			Carling Fundament				
		Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Name		Required Thermostat Type
leating and oling system other	Furn 80	1	Split 14 11.7		Furnace Fan	Attic De	fault	Setback
S								
		02	6	03			04	
		System Type		Number of Units	5		Heating Efficiency	
Furn 80 C				1	AFUE-80			
ES			2		·			
02	03	04	05	06	07	08		09
ystem Type	Number of Units	Efficiency Metric	Efficiency EER/EER2/CEER	Efficiency SEER/SEER2	Zonally Controlled	ed Mulit-speed Compressor		HERS Verification
ntral split AC	1	EER/SEER 11.7		14	Not Zonal	Single Sp	peed	Split 14 11.7-hers-cool
		~						
	02	03		04	05			06
			et Ve	-		EER2	Verified Refrigerant Charge	
		350					Required	
) E	S 02 Stem Type Itral split AC IFICATION Verit	Control Contro	02       System Type       Central gas furnace       Stem Type       Number of Units     Efficiency Metric       htral split AC     1     EER/SEER       IFICATION       O2     O3       Verified Airflow       Airflow Targe	02       System Type       Central gas furnace       Central gas furnace       Central gas furnace       S       02     03     04     05       Efficiency Metric       Efficiency Metric       Efficiency Metric       Efficiency Metric       IFICATION       02     03     03       02     03     03       Verified Airflow	O2     O3       System Type     Number of Units       Central gas furnace     1       Stem Type     Number of Units     Efficiency Metric       Stem Type     Number of Units     Efficiency Metric       Stem Type     Number of Units     Efficiency Metric       Intral split AC     1     EER/SEER       Intral split AC     1     EER/SEER       Intral split AC     1     EER/SEER       Verified Airflow     Airflow Target     Verified EER/EER2	O2     O3       System Type     Number of Units       Central gas furnace     1       Central gas furnace     1	O2     O3       System Type     Number of Units       Central gas furnace     1       Central gas furnace     1	O2     O3     O4       System Type     Number of Units     Heating Effi       Central gas furnace     1     AFUE-8       O2     O3     O4     O5     O6     O7     O8       stem Type     Number of Units     Efficiency Metric     Efficiency Efficiency SEER/SEER2     Zonally Controlled     Mulit-speed Compressor       otral split AC     1     EER/SEER     11.7     14     Not Zonal     Single Speed

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HVAC - DISTRIBUTIO	N SYSTEMS								2			
01	02	03	04	05	06	07	08	09	10	11	12	
Name	Туре	Design Type	Duct Ins. R-value         Duct Location         Surfac           Supply         Return         Supply         Return         Supply		e Area Return	Bypass Duct	Duct Leakage	HERS Verification				
Attic Default	Unconditioned attic	Non-Verified	R-8	R-8	Attic	Attic	n/a n/a		No Bypass Duct	Sealed and Tested	Attic Default-hers-dist	
	- HERS VERIFICATION		•		•	-	9		•	•		
01		03		14				c	07	08	09	
	02	05	04 05 06		0	07	00	09				
Name	Duct Leakage Verification	Duct Leakage Target (%)		ed Duct ation		ed Duct sign	Buried Ducts		Deeply Buried Ducts	Low-leakage Air Handler	Low Leakage Ducts Entirely in Conditioned Space	
Attic Default-hers-dist	Yes	5.0	Not Required		Not Re	Required Credit not taken		Not Required	No			
					_							
HVAC - FAN SYSTEMS	01	I										
		02						03		04		
	Name	Type Fan Po					Fan Pov	ver (Watts/CFM)		Name		
		HVAC Fan						0.45 Furnace Fan-hers-fan				
HVAC FAN SYSTEMS	- HERS VERIFICATION		6									
	01		02						03			
		Verified Fan Watt Draw						Required Fan Efficacy (Watts/CFM)				
	0	Required						0.45				
		, s										

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Project Name: 1 Story Example PV+Battery

Calculation Description: 1 Story Example

INDOOR AIR QUALIT	Y (IAQ) FANS					2		
01	02	03	04	05	06	07	08	09
Dwelling Unit	Airflow (CFM)	Fan Efficacy (W/CFM)	Includes IAQ Fan Type Heat/Energy Recovery?		IAQ Recovery Effectiveness - SRE	Includes Fault Indicator Display?	HERS Verification	Status
SFam IAQVentRpt	90	0.35	Exhaust	No	n/a	No	Yes	
COOLING VENTILATION								
01	02	03	04	05 💋	06	07	08	09
Name	Airflow Rate	Cooling Vent CFM	Cooling Vent	Total Watts	Number of Fans	CFVCS Type	Exhausts to	HERS Verification

**Registration Number:** 

Registration Date/Time:

Report Version: 2022.0.000 Schema Version: rev 20220901 **HERS Provider:** 

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		(W/CFIVI)		Recovery?	Effectiveness - SRE	Indicator Display?		
SFam IAQVentRpt	90	0.35	Exhaust	No	n/a	No	Yes	
COOLING VENTILATIO	ON	· · · · · · · · · · · · · · · · · · ·			6			
01	02	03	04	05	06	07	08	09
Name	Airflow Rate (CFM/ft2)	Cooling Vent CFM	Cooling Vent Watts/CFM	Total Watts	Number of Fans	CFVCS Type	Exhausts to	HERS Verification
Whole House Fan	1.5	3150	0.14	441	1	Not a CFVCS	Attic	Required
		colum this	COL					

Calculation Date/Time: 2023-01-25T21:25:42-08:00

Input File Name: 1storyExample.ribd22

Project Name: 1 Story Example PV+Battery

Calculation Description: 1 Story Example

Calculation Date/Time: 2023-01-25T21:25:42-08:00

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	6
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name:	Documentation Author Signature:
Company:	Signature Date:
Address:	CEA/ HERS Certification Identification (If applicable):
City/State/Zip:	Phone:
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
	of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. Ince are consistent with the information provided on other applicable compliance documents, worksheets,
Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:
Contribution	

Registration Date/Time:

**HERS Provider:**