## **BUILDING ENERGY ANALYSIS REPORT**

## **PROJECT:**

ZNE Example 7188 Pleasant Way Los Angeles, CA 90000

## **Project Designer:**

Bernard Parker & Assoc. 573 Oak Drive Sacramento, CA 95000 (415) 256-5555

## **Report Prepared by:**

Martyn C. Dodd EnergySoft, LLC 1025 5th St. Suite A Novato, CA 94945 (415) 897-6400

## Job Number:

M52000

## Date:

## 10/25/2016

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2016 Building Energy Efficiency Standards.

This program developed by EnergySoft Software - www.energysoft.com.

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# CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: ZNE Example Calculation

Calculation Description: Title 24 Analysis

Calculation Date/Time: 10:28, Tue, Oct 25, 2016 Input File Name: ZNE Sample.ribd16x

ENER	AL INFO	RMATION								
01		Project Name	ZNE Example	E Example						
02		Calculation Description	Title 24 Analysis							
03		Project Location	7188 Pleasant Way							
04		City	Los Angeles	05	Standards Version	Compliance 2017				
06		Zip Code	90000	07	Compliance Manager Version	BEMCmpMgr 2016.2.1 (695)				
08		Climate Zone	CZ9	09	Software Version	EnergyPro 7.1				
10		Building Type	Single Family	11	Front Orientation (deg/Cardinal)	90				
12	Project Scope		Newly Constructed	13	Number of Dwelling Units	1				
14		Total Cond. Floor Area (ft <sup>2</sup> )	2000	15	Number of Zones	2				
16		Slab Area (ft <sup>2</sup> )	1200	17	Number of Stories	2				
18		Addition Cond. Floor Area	n/a	19	Natural Gas Available	Yes				
20		Addition Slab Area (ft <sup>2</sup> )	n/a	21	Glazing Percentage (%)	19.5%				
COMPL	IANCE R	ESULTS	.9							
	01	Building Complies with Compu	ter Performance							
	02	This building incorporates feat	ures that require field testing and/or verifica	ation 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							

ENERGY USE SUMMARY									
04	05	06	07	08					
Energy Use (kTDV/ft <sup>2</sup> -yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvement					
Space Heating	5.63	4.21	1.42	25.2%					
Space Cooling	21.36	18.41	2.95	13.8%					
IAQ Ventilation	1.15	1.15	0.00	0.0%					
Water Heating	8.52	10.31	-1.79	-21.0%					
Photovoltaic Offset		-9.24	9.24						
Compliance Energy Total	36.66	24.84	11.82	32.2%					



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### ENERGY DESIGN RATING

Energy Design Rating (EDR) is an alternate way to express the energy performance of a building using a scoring system where 100 represents the energy performance of the Residential Energy Services (RESNET) reference home characterization of the 2006 International Energy Conservation Code (IECC). A score of zero represents the energy performance of a building that combines high levels of energy efficiency with renewable generation to "zero out" its TDV energy. Because EDR includes consideration of components not regulated by Title 24, Part 6 (such as domestic appliances and consumer electronics), it is not used to show compliance with Part 6 but may instead be used by local jurisdictions pursuing local ordinances under Title 24, Part 11 (CALGreen).

As a Standard Design building under the 2016 Building Energy Efficiency Standards is significantly more efficient than the baseline EDR building, the EDR of the Standard Design building is provided for Information. Similarly, the EDR score of the Proposed Design is provided separately from the EDR value of installed PV so that the effects of efficiency and renewable energy can both be seen

	EDR of Standard Design		EDR of Proposed Design	EDR Value of Proposed PV	Final EDR of Proposed Design				
49.0 50.8		50.8	57.6	-6.8					
	$\boxtimes$	Design meets Tier 1 requirement	t of 15% or greater code compliance margin (CALG	reen A4.203.1.2.1) and QII verification prere	quisite.				
	$\boxtimes$	Design meets Tier 2 requirement of 30% or greater code compliance margin (CALGreen A4.203.1.2.2) and QII verification prerequisite.							
	$\boxtimes$		ZNE) Design Designation requirement for Single Fa	•	, <b>e</b> .				

(PV) renewable energy generation sufficient to achieve a Final Energy Design Rating (EDR) of zero or less. The PV System must be verified.

ENERGY DESIGN RATING	PV SYSTEM INPUTS - DETAILED	.6					
DC System Size (kW)	Module Type	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)
2	Standard	$\square$	n/a	n/a	n/a	n/a	96
1	Standard	$\square$	n/a	n/a	n/a	n/a	96
2	Standard	$\boxtimes$	n/a	n/a	n/a	n/a	96

**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: 5.0 kWdc

Whole house fan

Non-standard duct location (any location other than attic)

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07 Number of Water Heating Systems 1

Input File Name: ZNE Sample.ribd16x

#### 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 components tables below.

Seter

#### **Building-level Verifications:**

- Insulation Inspection
- IAQ mechanical ventilation
- Cooling System Verifications:
- Minimum Airflow
- Verified SEER
- Refrigerant Charge
- Fan Efficacy Watts/CFM

HVAC Distribution System Verifications:

Duct Sealing

• Ducts located entirely in conditioned space confirmed by duct leakage testing

- Domestic Hot Water System Verifications:
- -- None --

<b>BUILDING - FEATURES INFORMA</b>	TION		0		
01	02	03	04	05	06
Project Name	Conditioned Floor Area (ft2)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems
ZNE Example	2000	1	3	2	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	Water Heating System 2
1st Floor Zone	Conditioned	Res HVAC1	1200	8	DHW Sys 1	
2nd Floor Zone	Conditioned	Res HVAC1	800	8	DHW Sys 1	

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01	02			03	04	05	06	07	08
Name	Zone		Const	truction	Azimuth	Orientation	Gross Area (ft <sup>2</sup> )	Window & Door Area (ft <sup>2</sup> )	Tilt (deg
Front Wall	1st Floor Zo	ne	R-19 Wa	III w/1 XPS	0	Right	320	81	90
Left Wall	1st Floor Zo	ne	R-19 Wa	III w/1 XPS	90	Front	240	40	90
Back Wall	1st Floor Zo	ne	R-19 Wa	ll w/1 XPS	180	Left	320	88.7	90
Right Wall	1st Floor Zo	ne	R-19 Wa	ll w/1 XPS	270	Back	240	32	90
Wall to Garage	1st Floor Zone>>	Garage	R-1	3 Wall			100	20	
R-38 Roof	1st Floor Zo	ne	R-38+1	3 HP Attic			500		
Front Wall 2	2nd Floor Zo	ne	R-19 Wa	III w/1 XPS	0	Right	320	60	90
Left Wall 2	2nd Floor Zo	ne	R-19 Wa	III w/1 XPS	90	Front	240	24	90
BackWall	2nd Floor Zo	ne	R-19 Wa	ll w/1 XPS	180	Left	320	70	90
Right Wall 2	2nd Floor Zo	ne	R-19 Wa	III w/1 XPS	270	Back	240	32	90
R-38 Roof 2	2nd Floor Zo	ne	R-38+1:	3 HP Attic			800		
Floor over Garage	2nd Floor Zone>>	Garage	R-19 Floor N	lo Crawlspace			100		
GarageWallFront	Garage_	_	Garage	e Ext Wall	0	Right	180	128	90
GarageWallLeft	Garage_	_	Garage	e Ext Wall	90	Front	198	0	90
GarageWallRight	Garage_	_	Garage	e Ext Wall	270	Back	108	0	90
GarageRoof	Garage_		R-30 F	Roof Attic			340		
	•	2				•	•		•
TTIC		-0							
01	02	0	03	04		05	06	07	08
Name	Construction	Т	Гуре	Roof Rise	Roof R	eflectance	Roof Emittance	Radiant Barrier Co	ool Roof
AtticGarage	Attic Garage Roof Cons	Ver	ntilated	4		0.1	0.85	No	No
Attic 1st Floor Zone	Attic Roof1st Floor Zone	Ver	ntilated	4		0.1	0.85	Yes	No

4

0.1

0.85



Attic Roof2nd Floor Zone

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Attic 2nd Floor Zone

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Ventilated

HERS Provider: Report Generated at: 2016-10-25 10:29:16

Yes

No

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Input	File Name: ZN	NE Sample.ribd16x	

/INDOWS									
01	02	03	04	05	06	07	08	09	10
Name	Туре	Surface (Orientation-Azimuth)	Width (ft)	Height (ft)	Multiplier	Area (ft <sup>2</sup> )	U-factor	SHGC	Exterior Shading
Front Windows	Window	Front Wall (Right-0)			1	60.0	0.32	0.25	Insect Screen (default)
Left Windows	Window	Left Wall (Front-90)			1	40.0	0.32	0.25	Insect Screen (default)
Back Windows	Window	Back Wall (Left-180)	0		1	72.0	0.32	0.25	Insect Screen (default)
Right Windows	Window	Right Wall (Back-270)			1	32.0	0.32	0.25	Insect Screen (default)
Front Windows 2	Window	Front Wall 2 (Right-0)			1	60.0	0.32	0.25	Insect Screen (default)
Left Windows 2	Window	Left Wall 2 (Front-90)			1	24.0	0.32	0.25	Insect Screen (default
Back Windows 2	Window	BackWall (Left-180)			1	70.0	0.32	0.25	Insect Screen (default)
Right Windows 2	Window	Right Wall 2 (Back-270)			1	32.0	0.32	0.25	Insect Screen (default)
DORS		0							
01			02				03		04
Nam	e	Side	of Building				Area (f	ˈt²)	U-factor
Entry D	)oor	F	Front Wall				21.0		0.50
Back D	loor		Back Wall				16.7		0.50
Doo	r	Wa	Wall to Garage				20.0		0.50
GarageCarD	oorFront	Gara	ageWallFront				128.0	)	0.70

Certificate of contract

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01	02	03	04	05	06	07
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Winter Design U-value	Assembly Layers
Garage Ext Wall	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	none	0.361	<ul> <li>Inside Finish: Gypsum Board</li> <li>Cavity / Frame: no insul. / 2x4</li> <li>Exterior Finish: 3 Coat Stucco</li> </ul>
R-30 Roof Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O.C.	R 30	0.032	<ul> <li>Inside Finish: Gypsum Board</li> <li>Cavity / Frame: R-9.1 / 2x4</li> <li>Over Ceiling Joists: R-20.9 insul.</li> </ul>
Attic Garage Roof Cons	Attic Roofs	Wood Framed Ceiling	2x4 Top Chord of Roof Truss @ 24 in. O.C.	none	0.644	<ul> <li>Cavity / Frame: no insul. / 2x4 Top Chrd</li> <li>Roof Deck: Wood Siding/sheathing/decking</li> <li>Roofing: Light Roof (Asphalt Shingle)</li> </ul>
Attic Roof1st Floor Zone	Attic Roofs	Wood Framed Ceiling	2x4 Top Chord of Roof Truss @ 24 in. O.C.	R 13	0.078	<ul> <li>Under Roof Joists: R-0.0 insul.</li> <li>Cavity / Frame: R-13.0 / 2x4 Top Chrd</li> <li>Roof Deck: Wood Siding/sheathing/decking</li> <li>Roofing: Light Roof (Asphalt Shingle)</li> </ul>
R-38+13 HP Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O.C.	R 38	0.025	<ul> <li>Inside Finish: Gypsum Board</li> <li>Cavity / Frame: R-9.1 / 2x4</li> <li>Over Ceiling Joists: R-28.9 insul.</li> </ul>
R-19 Wall w/1 XPS	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O.C.	R 19	0.050	<ul> <li>Inside Finish: Gypsum Board</li> <li>Cavity / Frame: R-19 / 2x6</li> <li>Sheathing / Insulation: R5 Sheathing</li> <li>Exterior Finish: 3 Coat Stucco</li> </ul>
R-13 Wall	Interior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	R 13	0.092	<ul> <li>Inside Finish: Gypsum Board</li> <li>Cavity / Frame: R-13 / 2x4</li> <li>Other Side Finish: Gypsum Board</li> </ul>
Attic Roof2nd Floor Zone	Attic Roofs	Wood Framed Ceiling	2x4 Top Chord of Roof Truss @ 24 in. O.C.	R 13	0.078	<ul> <li>Under Roof Joists: R-0.0 insul.</li> <li>Cavity / Frame: R-13.0 / 2x4 Top Chrd</li> <li>Roof Deck: Wood Siding/sheathing/decking</li> <li>Roofing: Light Roof (Asphalt Shingle)</li> </ul>
R-0 Floor No Crawlspace	Interior Floors	Wood Framed Floor	2x12 @ 16 in. O.C.	none	0.196	<ul> <li>Floor Surface: Carpeted</li> <li>Floor Deck: Wood Siding/sheathing/decking</li> <li>Cavity / Frame: no insul. / 2x12</li> <li>Ceiling Below Finish: Gypsum Board</li> </ul>
R-19 Floor No Crawlspace	Interior Floors	Wood Framed Floor	2x6 @ 16 in. O.C.	R 19	0.048	<ul> <li>Floor Surface: Carpeted</li> <li>Floor Deck: Wood Siding/sheathing/deckin</li> <li>Cavity / Frame: R-19 / 2x6</li> <li>Ceiling Below Finish: Gypsum Board</li> </ul>

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SLAB FLOORS																
01			02				03		0	4		05			06	07
Name		Zone			Area (ft <sup>2</sup> )		Perime	ter (ft)	Edge Insul. R-value & De		& Depth	h Carpeted Fraction		on Heated		
Covered SI	ab	1st Floor Zone				1200		9	0	Non		Vone		0.8	No	
GarageSla	ıb		Gara	ge			440		5	4		None			0	No
BUILDING ENVELOPE	E - HERS VERI	ICATION							-							
01				02			03				04					
Quality Insu	lation Installati	ion (QII)		Quality I	nstallatio	on of Spr	ay Foam I	nsulation		Building E	nvelope A	ir Leakage			CFM	50
	Required				N	lot Requi	ired	2		١	lot Require	ed				
WATER HEATING SYS	STEMS							2								
01			02				03			04			05			06
Name		s	System T	ӯре		Dis	stribution <sup>-</sup>	Гуре		Water H	leater	Num	per of Hea	aters	Sola	ar Fraction (%)
DHW Sys	1		Standa	rd			Standard			DHW Hea	ter 1 (1)		1	1.0%		.0%
WATER HEATERS	,															
01	02	03	;	04	05	0	06	07		08		09	9 10			11
Name	Heater Element Type	Tank 1	Гуре	Number of Units	Tank Volume (gal)	Fact	ergy tor or tiency	Input Rating/Pilo	F	Insulatior -value nt/Ext)	Stan	by Loss / overy Eff NEEA H		Ambient		Tank Location of Ambient Condition
DHW Heater 1	Heat Pump	Small St	torage	1	n/a	n	ı/a	n/a		n/a		n/a	AO S	mith PHP	Т 60	Garage
SPACE CONDITIONIN	G SYSTEMS	•									•					
	01			02			03			04			05		1	06
SC S	ys Name			System Ty	vpe	Heating Unit Name			Cooling Unit Name		F	Fan Name		Dist	ribution Name	
Res HVAC1 Heat Pump Heating Cooling System							ŀ	Heat Pump System 1 HVAC			/AC Fan ′	C Fan 1 Air Distribution System 1				
HVAC - HEAT PUMPS				-												
01		Ç	)2		03		04	05	06	07	08	09		10		11
System		Numb	er of		Heating		С	ooling	Zonally	Com	pressor		HERS			
Name		Туре		Uni	ts F	HSPF/COP	Cap 47	Cap 1	7 SEEI	R EER	Controlle	d 1	Гуре		Verification	
Heat Pump Syster	Heat Pump System 1 SplitHeatPump		1		9	47500	4000	) 15	11.6	Not Zona	Singl	le Speed		t Pump System 1-hers-cool		
	N N															

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01		02		03			04			05	06
Name		Verified Airflow		Airflow Target		Verified EER			Verified SEER		Verified Refrigerant Charge
Heat Pump System 1-hers-coo	m 1-hers-cool Required			350		Not Required			Required		Required
HVAC - DISTRIBUTION SYSTE	MS					8					
01		02		03		4 05		05	06		07
Name		Туре	Du	ct Leakage	Insulation	R-value	Duc	t Location		Bypass Duct	HERS Verification
Air Distribution System 1		DuctsInAll		ed and tested	8	Conditio		itioned zone		None	Air Distribution System 1-hers-dist
HVAC DISTRIBUTION - HERS	/ERIFICATIO	N			.07						
01		02	0	03		05		06		07	08
	Duct Leakage		Duct L	eakage Ve	rified Duct	Verified Duct		Buried		Deeply Buried	Low-leakage
Name	Name Verification		Targe	Target (%)		Design		Ducts		Ducts	Air Handler
Air Distribution System 1-hers-	ir Distribution System 1-hers-dist Required		5	5.0		Not Required Not		Not Requ	Required Not Required		
HVAC - FAN SYSTEMS				6							
01				02				03			04
Name				Туре			Fan Power (Watts/CFM)			HEF	RS Verification
HVAC Fan 1			Single Speed	ingle Speed PSC Furnace Fan			0.58			HVAC	Fan 1-hers-fan
HVAC FAN SYSTEMS - HERS \	/ERIFICATIO	N									
(	01	(	5		02					03	
Na	ame			Verified Fan Watt Draw				Required Fan Efficiency (Watts/CFM)			
HVAC Fan 1-hers-fan				Required					0.58		
IAQ (Indoor Air Quality) FANS		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~									
01	. 02			03		04			05		06
Dwelling Unit		IAQ CFM		IAQ Watts/CFM		IAQ Fan Type		Гуре	IAQ Recovery Effectiveness(%)		HERS Verification
SFam IAQVentRpt 50				0.25			Default		0		Required



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COOLING VENTILATION				
01	02	03	04	05
Name	Cooling Vent CFM	Cooling Vent Watts/CFM	Total Watts	Number of Fans
WH Fan 1	3500	0.0857143	300	1

#### PROJECT NOTES

This continues to the second This home was evaluated with QII and a significant solar system included as well as most features needed to comply with the 2016 Title 24 code requirements.

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name:	Documentation Author Signature:
Martyn C. Dodd	
Company:	Signature Date:
EnergySoft, LLC	10/25/2016
Address: 1025 5th St. Suite A	CEA/HERS Certification Identification (If applicable):
City/State/Zip: Novato, CA 94945	Phone: (415) 897-6400
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
Regulations.	tificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of f Compliance are consistent with the information provided on other applicable compliance documents,
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
Cottincate Athis	

## **Project Summary**

7188 Pleasant Way

Los Angeles, CA 90000

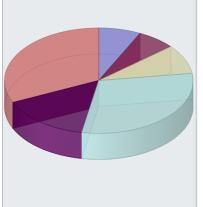
This home was evaluated with QII and a significant solar system included as well as most features needed to comply with the 2016 Title 24 code requirements.

Date of Audit:	1/1/0001
Conditioned Floor Area:	2,000
Number of Stories:	1
Number of Bedrooms:	3

House Type:	Single Family
Foundation Type:	Slab-on-Grade
California Climate Zone:	9
Weather Data:	CZ09_wy3.bin

## WHERE THE ENERGY IS USED





This pie chart estimates the energy cost for the various types of end uses in the home. Data has been calculated using software that uses typical profiles of usage to estimate end use cost. Your costs may vary from these numbers depending upon how the home is operated.

EnergyPro 7.1 by EnergySoft

User Number: 0000

ID: M52000

## **Energy Use Summary**

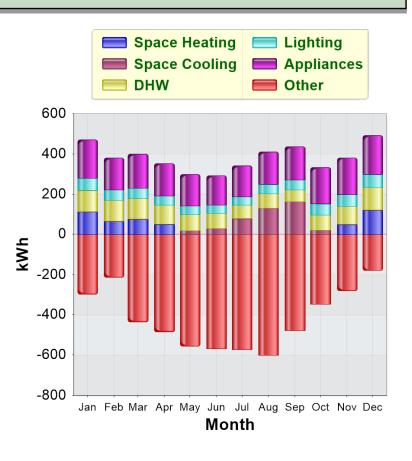
7188 Pleasant Way

Los Angeles, CA 90000

The tables and graphs below summarize the major energy uses in the home for both electricity and fossil fuels. Ancillary uses include swimming pools and spas.

### ELECTRICITY

End Use	kWh/yr
Space Heating	485
Space Cooling	445
Fans	110
Pumps	0
Domestic Hot Water	1,031
Indoor Lighting	487
Outdoor Lighting	114
Plug Loads	2,026
Appliances/Ancillary	2,026
Renewables	-8,169
TOTAL	-1,445



### FOSSIL FUEL

End Use	Therms/yr
Space Heating	0
Domestic Hot Water	0
Appliances	0
Ancillary	0
TOTAL	0



EnergyPro 7.1 by EnergySoft

User Number: 0000

ID: M52000