GENERAL INFORMATION					
01	**Project Name**	Residential Example			
02	**Run Title**	Title 24 Analysis			
03	**Project Location**	123 Sample street			
04	**City**	Los Angeles	05	**Standards Version**	2022
06	**Zip code**	90045	07	**Software Version**	EnergyPro 9.1
08	**Climate Zone**	6	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			

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**

SAMPLE - Title 24 CF1R-PRF-01

ENERGY DESIGN RATINGS

	Energy Design Ratings			Compliance Margins		
	Source Energy (EDR1)	**Efficiency[1] EDR (EDR2efficiency)**	**Total[2] EDR (EDR2total)**	**Source Energy (EDR1)**	**Efficiency[1] EDR (EDR2efficiency)**	**Total[2] EDR (EDR2total)**
Standard Design	37.7	44.6	31.1			
Proposed Design	30.3	33.7	14.3	7.4	10.9	16.8
RESULT[3]: PASS						

[1]Efficiency EDR includes improvements like a better building envelope and more efficient equipment

[2]Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries

[3]Building complies when source energy, efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

- Standard Design PV Capacity: 2.45 kWdc
- Proposed PV kWh output exceeds proposed electricity use by 13% which may violate NEM rules. Contact local utility.

SAMPLE - Title 24 CF1R-PRF-01

ENERGY USE SUMMARY

Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft^2 -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft^2 -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft^2 -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft^2 -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	1.51	6.77	1.25	6.62	0.26	1.15
Space Cooling	0.16	7.75	0.06	3.71	0.1	4.04
IAQ Ventilation	0.34	3.64	0.34	3.64	0	0
Water Heating	1.2	13.01	3.03	13.06	-1.83	-0.05
Self Utilization/Flexibility Credit				-2.49		2.49
Efficiency Compliance Total	**3.21**	**31.17**	**4.68**	**23.54**	**-1.47**	**7.63**
Photovoltaics	-1.39	-38.01	-1.61	-46.82		
Battery			-2.92	-11.51		
Flexibility						
Indoor Lighting	0.75	7.59	0.75	7.59		
Appl. & Cooking	3	20.8	3	20.77		
Plug Loads	2.74	28.61	2.74	28.61		
Outdoor Lighting	0.19	1.73	0.19	1.73		
TOTAL COMPLIANCE	**8.5**	**51.89**	**6.83**	**23.91**		

SAMPLE - Title 24 CF1R-PRF-01

ENERGY USE INTENSITY

	Standard Design (kBtu/ft^2 - yr)	Proposed Design (kBtu/ft^2 - yr)	Compliance Margin (kBtu/ft^2 - yr)	Margin Percentage
Gross EUI[1]	12.47	14.16	-1.69	-13.55
Net EUI[2]	5.43	6.01	-0.58	-10.68

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 (kW)**	**Charging**		**Discharging**		**Round Trip Efficiency**
		Charging Efficiency	**Charging Rate (kW)**	**Discharging Efficiency**	**Discharging Rate (kW)**	
Basic	[illegible]	0.95	n/a	0.95	n/a	0.9

SAMPLE - Title 24 CF1R-PRF-01

SAMPLE - Title 24 CF1R-PRF-01

REQUIRED SPECIAL FEATURES

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

- Battery System: 12 kWh (Self Utilization Credit taken)
- Ducts with high level of insulation
- Ceiling has high level of insulation
- Insulation below roof deck
- Non-standard duct location (any location other than attic)

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 buildng tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS 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

01	02	03	04	05	06	07	08
Name	**Zone**	**Construction**	**Azimuth**	**Orientation**	**Gross Area (ft²)**	**Window and Door Area (ft2)**	**Tilt (deg)**
Front Wall	1st Floor Zone	R-21 Wall w/R-2	0	Right	32	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	08
Name	**Construction**	**Type**	**Roof Rise (x in 12)**	**Roof Reflectance**	**Roof Emittance**	**Radiant Barrier**	**Cool Roof**
Attic __Garage__	Attic Garage Roof Cons	Ventilated	4	0.1	0.85	Yes	No
Attic 1st Floor Zone	Attic Roof 1st Floor Zone	Ventilated	4	0.1	0.85	No	No

SAMPLE - Title 24 CF1R-PRF-01

ATTIC

01	02	03	04	05	06	07	08
Name	**Construction**	**Type**	**Roof Rise (x in 12)**	**Roof Reflectance**	**Roof Emittance**	**Radiant Barrier**	**Cool Roof**
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	11	12	13	14
Name	**Type**	**Surface**	**Orientation**	**Azimuth**	**Width (ft)**	**Height (ft)**	**Mult.**	**Area (ft^2)**	**U-factor**	**U-factor Source**	**SHGC**	**SHGC Source**	**Exterior Shading**
Front Windows	Window	Front Wall	Right	0			1	60	0.28	NFRC	0.2	NFRC	Bug Screen
Left Windows	Window	Left Wall	Front	90			1	40	0.28	NFRC	0.2	NFRC	Bug Screen
Back Windows	Window	Back Wall	Left	180			1	72	0.28	NFRC	0.2	NFRC	Bug Screen
Right Windows	Window	Right Wall	Back	270			1	32	0.28	NFRC	0.2	NFRC	Bug Screen
Front Windows 2	Window	Front Wall 2	Right	0			1	60	0.28	NFRC	0.2	NFRC	Bug Screen
Left Windows 2	Window	Left Wall 2	Front	90			1	24	0.28	NFRC	0.2	NFRC	Bug Screen
Back Windows 2	Window	BackWall	Left	180			1	70	0.28	NFRC	0.2	NFRC	Bug Screen
Right Windows 2	Window	Right Wall 2	Back	270			1	32	0.28	NFRC	0.2	NFRC	Bug Screen

OPAQUE DOORS

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

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OPAQUE DOORS

01	02	03	04
Name	**Side of Building**	**Area (ft^2)**	**U-factor**
GarageCarDoorFront	GarageWallFront	128	0.7

SLAB FLOORS

01	02	03	04	05	06	07	08
Name	**Zone**	**Area (ft^2)**	**Perimeter (ft)**	**Edge Insul. R-value and Depth**	**Edge Insul. R-value and Depth**	**Carpeted Fraction**	**Heated**
Slab-on-Grade	1st Floor Zone	1200	160	none	0	80%	No
GarageSlab	__Garage__	440	54	none	0	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
Attic Garage Roof Cons	Attic Roofs	Wood Framed Ceiling	2x8 @ 24 in. O. C.	R-0	None / 0	0.638	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x8

SAMPLE - Title 24 CF1R-PRF-01

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 Roof1st Floor Zone	Attic Roofs	Wood Framed Ceiling	2x6 @ 24 in. O. C.	R-19	None / 0	0.055	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-19 / 2x6
Attic Roof2nd Floor Zone	Attic Roofs	Wood Framed Ceiling	2x6 @ 24 in. O. C.	R-19	None / 0	0.055	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-19 / 2x6
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
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

SAMPLE - Title 24 CF1R-PRF-01

BUILDING ENVELOPE - HERS VERIFICATION

01	02	03	04	05
Quality Insulation Installation (QII)	**High R-value Spray Foam Insulation**	**Building Envelope Air Leakage**	**CFM50**	**CFM50**
Not Required	Not Required	N/A	n/a	n/a

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**	**HERS 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	Gas	Consumer Instantaneous	1	0	UEF	0.97	Btu/Hr	200000	0	n/a		

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**	**HERS Verification**
Dwelling	DHW Sys 1	n/a	n/a	n/a	0.6	Expanded Credit

SAMPLE - Title 24 CF1R-PRF-01

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 (%)**	**HERS Verification**
Dwelling	DHW Sys 1 - 1 - DWHR-1	Equal Flow	2	43	Required

WATER HEATING - HERS VERIFICATION

01	02	03	04	05	06	07
Name	**Pipe Insulation**	**Parallel Piping**	**Compact Distribution**	**Compact Distribution Type**	**Recirculation Control**	**Shower Drain Water Heat Recovery**
DHW Sys 1 - 1/1	Not Required	Not Required	Required	Expanded	Not Required	Required

SPACE CONDITIONING SYSTEMS

01	02	03	04	05	06	07	08	09
Name	**System Type**	**Heating Unit Name**	**Heating Equipment Count**	**Cooling Unit Name**	**Cooling Equipment Count**	**Fan Name**	**Distribution Name**	**Required Thermostat Type**
Res HVAC1	Heating and cooling system other	Heating Component 1	1	Cooling Component 1	1	HVAC Fan 1	Air Distribution System 1	Setback

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

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HVAC - COOLING UNIT TYPES

01	02	03	04	05	06	07	08	09
Name	**System Type**	**Number of Units**	**Efficiency Metric**	**Efficiency EER/EER2/CEER**	**Efficiency SEER/SEER2**	**Zonally Controlled**	**Mulit-speed Compressor**	**HERS Verification**
Cooling Component 1	Central split AC	1	EER2/SEER2	12.2	15	Not Zonal	Single Speed	Cooling Component 1-hers-cool

HVAC COOLING - HERS VERIFICATION

01	02	03	04	05	06
Name	**Verified Airflow**	**Airflow Target**	**Verified EER/EER2**	**Verified SEERSEER2**	**Verified Refrigerant Charge**
Cooling Component 1-hers-cool	Required	350	Required	Required	Required

HVAC - DISTRIBUTION SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
Name	**Type**	**Design Type**	**Duct Ins. R-value**		**Duct Location**		**Surface Area**		**Bypass Duct**	**Duct Leakage**	**HERS Verification**
			Supply	**Return**	**Supply**	**Return**	**Supply**	**Return**			
Air Distribution System 1	Conditioned space-entirely	Non-Verified	R-8	R-8	Conditioned Zone	Conditioned Zone	n/a	n/a	No Bypass Duct	Sealed and Tested	Air Distribution System 1-hers-dist

HVAC DISTRIBUTION - HERS VERIFICATION

01	02	03	04	05	06	07	08	09
Name	**Duct Leakage Verification**	**Duct Leakage Target (%)**	**Verified Duct Location**	**Verified Duct Design**	**Buried Ducts**	**Deeply Buried Ducts**	**Low-leakage Air Handler**	**Low Leakage Ducts Entirely in Conditioned Space**
Air Distribution System 1-hers-dist	Yes	5.0	Required	Not Required	Not Required	Credit not taken	Not Required	No

SAMPLE - Title 24 CF1R-PRF-01

HVAC - FAN SYSTEMS			
01	**02**	**03**	**04**
Name	**Type**	**Fan Power (Watts/CFM)**	**Name**
HVAC Fan 1	HVAC Fan	0.45	HVAC Fan 1-hers-fan

HVAC FAN SYSTEMS - HERS VERIFICATION		
01	**02**	**03**
Name	**Verified Fan Watt Draw**	**Required Fan Efficacy (Watts/CFM)**
HVAC Fan 1-hers-fan	Required	0.45

INDOOR AIR QUALITY (IAQ) FANS								
01	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**
Dwelling Unit	**Airflow (CFM)**	**Fan Efficacy (W/CFM)**	**IAQ Fan Type**	**Includes Heat/Energy Recovery?**	**IAQ Recovery Effectiveness - SRE**	**Includes Fault Indicator Display?**	**HERS Verification**	**Status**
SFam IAQVentRpt	88	0.35	Exhaust	No	n/a	No	Yes	

SAMPLE - Title 24 CF1R-PRF-01

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: Title 24 Calcs	Signature Date: 10/7/2023
Address:	CEA/ HERS 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. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.
2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
3. 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.

Responsible Designer Name: Designer	Responsible Designer Signature:
Company: Design Company	Date Signed:
Address: 123 Sample street	License:
City/State/Zip: Irvine , CA 92602	Phone: 657-234-0134

SAMPLE - Title 24 CF1R-PRF-01

ENERGY USE AND COST SUMMARY — ECON-1

Project Name: *Sample Residence new construction*

Date: *10/7/2023*

Rate: *Electric Alameda H* **Fuel Type:** *Electricity*

	STANDARD			PROPOSED			MARGIN		
	Energy Use (kWh)	Peak Demand (kW)	Cost ($)	Energy Use (kWh)	Peak Demand (kW)	Cost ($)	Energy Use (kWh)	Peak Demand (kW)	Cost ($)
Jan	169	1.9	22	102	0.9	16	67	1.0	7
Feb	138	1.9	19	48	0.9	10	90	1.0	9
Mar	65	1.8	12	-56	0.8	5	121	1.0	7
Apr	7	1.3	6	-137	0.3	5	144	1.0	1
May	-1	1.6	5	-177	0.0	5	176	1.6	0
Jun	18	2.4	7	-156	0.0	5	174	2.4	2
Jul	-5	1.5	5	-195	0.0	5	19	1.5	0
Aug	-8	1.4	5	-166	0.0	5	158	1.4	0
Sep	55	1.7	11	-70	0.4	5	125	1.3	6
Oct	116	1.7	17	27	0.7	8	89	1.0	9
Nov	138	1.6	19	77	0.9	13	61	0.7	6
Dec	226	1.9	28	149	0.9	20	77	1.0	8
Year	918	2.4	156	-554	0.9	101	1,472	1.5	54
CO_2	0.64	**tons/yr**		0.10	**tons/yr**		0.54	**tons/yr**	

Rate: *Gas PG&E P* **Fuel Type:** *Natural Gas*

	STANDARD			PROPOSED			MARGIN		
	Energy Use (therms)	Peak Demand (kBtu/hr)	Cost ($)	Energy Use (therms)	Peak Demand (kBtu/hr)	Cost ($)	Energy Use (therms)	Peak Demand (kBtu/hr)	Cost ($)
Jan	13	34.6	16	17	25.2	21	-4	9.4	-5
Feb	16	30.9	10	19	23.3	24	-4	7.6	-5
Mar	4	11.8	5	11	12.3	13	-7	-0.5	-8
Apr	5	27.3	6	11	22.0	13	-6	5.3	-7
May	3	6.3	4	10	7.1	12	-6	-0.8	-8
Jun	3	6.3	4	9	7.3	11	-6	-1.0	-7
Jul	4	6.8	4	9	10.0	11	-5	-3.2	-7
Aug	4	5.1	4	9	5.9	11	-5	-0.7	-6
Sep	3	5.1	4	8	7.1	10	-5	-2.0	-6
Oct	4	6.3	5	9	7.0	11	-5	-0.7	-7
Nov	4	7.7	5	9	9.7	12	-6	-1.9	-7
Dec	16	31.8	19	19	23.5	24	-3	8.3	-4
Year	77	34.6	96	139	25.2	173	-62	9.4	-77
CO	0.45	**tons/yr**		0.81	**tons/yr**		-0.36	**tons/yr**	

Annual Totals	Energy	Demand	Cost	Cost/sqft	Virtual Rate
Electricity	*-554* **kWh**	*1* **kW**	**$** *101*	**$** *0.05* **/sqft**	**$** *n/a* **/kWh**
Natural Gas	*139* **therms**	*25* **kBtu/hr**	**$** *173*	**$** *0.09* **/sqft**	**$** *1.24* **/therm**
		Total	**$** *275*	**$** *0.14* **/sqft**	

Site Energy Use Index: ***6.02*** **kBtuh/yr**

SAMPLE - Title 24 CF1R-PRF-01

Energy Upgrade Recommendations ECON-2

Project Name *Sample Residence new construction*	Documentation Author *Title 24 Calcs*
Project Address *123 Sample street* *Los Angeles , CA 90045*	Author Address ,

Recommended Improvements	Description	Annual Savings	Est. Cost to Install	Service Life	SIR

SAMPLE - Title 24 CF1R-PRF-01

Annual Results	Energy Cost		
End Use	Existing	Improved	Savings
Space Heating	*$37*		
Space Cooling	*$7*		
Fans	*$30*		
Pumps	*$0*		
Domestic Hot Water	*$9*		
Indoor Lighting	*$55*		
Outdoor Lighting	*$13*		
Plug Loads	*$228*		
Appliances/Process	*$161*		
Ancillary	*$0*		
Photovoltaic/Battery	*($373)*		
TOTAL	***$275***		

Electricity (kWh)		
Existing	Improved	Savings
23		
62		
270		
0		
79		
487		
114		
2,026		
953		
0		
-4,568		
-554		

Fossil Fuel (therms)		
Existing	Improved	Savings
28		
0		
0		
0		
68		
0		
0		
0		
43		
0		
0		
139		

CO_2 (metric tons/year)	Existing	Improved	Savings
Electricity	*0.10*		
Fossil Fuel	*0.81*		
TOTAL	***0.92***		
Average Demand (kW)	*0.94*		

Climate Zone:	*6*
Electric Rate:	*Electric Alameda H*
Gas Rate:	*Gas PG&E P*
Floor Area:	*2,000*
Type:	*Single Family*

The estimated operating costs shown in this report are dependent upon many factors. The construction and conservation features of the project clearly are important. Equally important is the thermostat setting. How the thermostat is used, appliance use, and occupant interaction all influence the annual operating cost. The estimates provided in this report are based on typical conditions; your actual usage will vary. SIR is based upon measure costs divided by cost savings over the service life.