



## MEMORANDUM

DATE: August 19, 2019

SUBJECT: Home Energy Audit Program

TO: Commissioners Flanagan and Goins, Solar and Green Building Committee Members  
Patrick Tallarico, Manager, Office of Sustainability

FROM: David Freedman, Solar and Green Building Committee Member

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At the Committee's June meeting we discussed home energy efficiency labels and agreed to investigate a voluntary pilot program. If approved by the Committee and Commission, the City would provide up to \$10,000 to fund a rebate program available to homeowners that participate in an energy audit program.

Berkeley and Portland have energy audit requirements. Both programs use the Home Energy Score based on US Department of Energy (DOE) standards. The Home Energy Score Report estimates home energy use and associated costs and provides cost-effective energy solutions to improve the home's efficiency. Each Home Energy Score is shown on a simple one-to-ten scale, where a ten represents the most efficient homes. A sample Home Energy Score Report is included as Attachment 1.

Berkeley's Building Energy Saving Ordinance (BESO) requires an audit prior to sale of a house of up to four dwelling units or whole building under 25,000 square feet (<https://www.cityofberkeley.info/BESO/>). The report is filed with the city and a filing fee is charged (\$79 for a house of up to four dwelling units or building under 5,000 square feet and \$152 for a building 5,000 to 24,999 square feet). Berkeley requires energy assessors to register with the City and posts a list of the registered energy assessors. Berkeley does not include energy efficiency suggestions in its report as the ones generated using the DOE software are not aligned with the city's recently adopted electrification ordinance. Berkeley does not subsidize the report but allows transfer of BESO compliance from seller to buyer at the time of sale. The deferral requires the buyer to complete an energy assessment within 12 months of the sale date.

Portland requires the audit at the time of listing of a single-family house (<https://www.pdxhes.com/>). The score must be included in the listing or advertising and displayed at the house. Portland estimates the cost to be between \$150-\$250 per audit and offers a free assessment to households whose income is at or below 60 percent of median family income for the local area.

Currently, there are no DOE-certified assessors of the Home Energy Score in the Coachella Valley. One home inspector in Palm Desert hopes to obtain the certification by the end of September. This inspector currently provides a home energy report using the template of the International Association of Certified Home Inspectors (InterNACHI). A sample InterNACHI report is available at <http://energytool.nachi.org/my-report/268b94e-mpioih>. The report estimates the home's yearly energy usage, pinpoints potential energy inefficiencies, develops recommendations for energy improvements and determines potential energy savings based on a typical family's energy usage. The inspector charges \$175 for the report on a stand-alone basis or \$100 if included with a home inspection.

In addition to the DOE and InterNACHI home energy audit standards, California has its own standard home energy audit performed by qualified HERS raters, called a “Whole House Rating” or commonly referred to as a “HERS II” test. The audit (or rating, because it generates a score) creates a computer model of the home, but once done it can be useful for recommending upgrades and improvements. The audit can take four to eight hours and cost from \$300 to \$600 depending on level of detail and service the homeowner requires. The rating score represents the energy use of the home relative to a house that meets the 2008 Energy Code. A score of 120 means the house uses 20% more than a house that meets the 2008 Energy Code. A score of 75 means it uses 25% less. A Zero Net Energy house would get a score of zero. As the California Energy Commission does not mandate this report in connection with new construction, additions or alterations, there are no current plans to update the software to tie it to the 2019 Energy Code that enters into effect on January 1, 2020. A sample HERS II report is included as Attachment 2.

A comparison of the three standards for home energy audits (DOE, InterNACHI and HERS) is included as Attachment 3. At the September 3 Committee meeting, Patrick and I would like to get your feedback on:

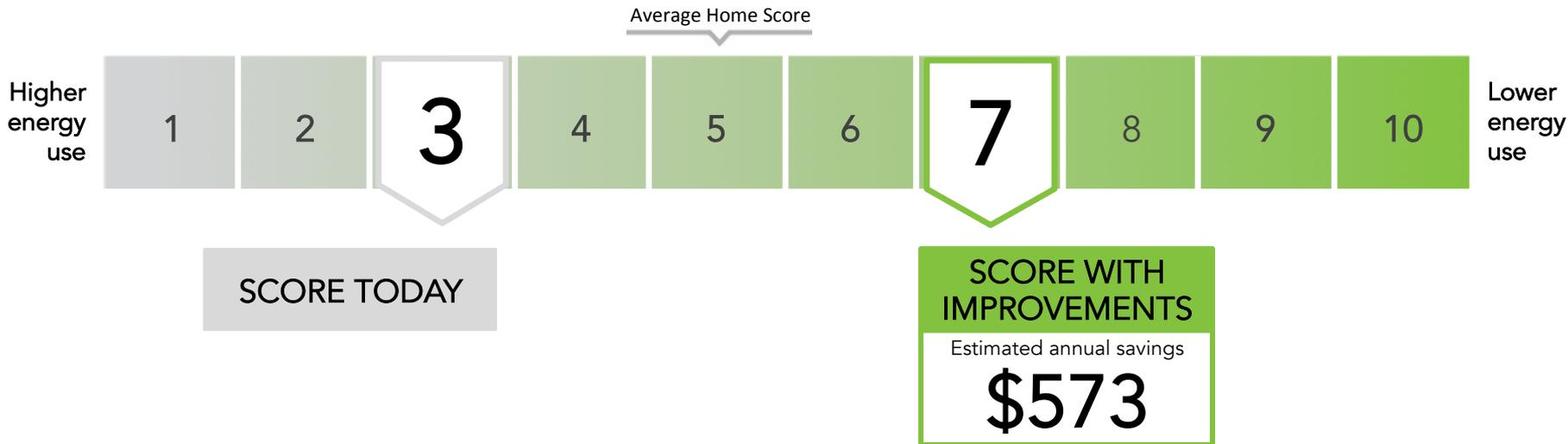
- 1) Preference for one program over another.
- 2) Picking one program versus giving the homeowner a choice of programs eligible for a rebate.
- 3) Rebate amount (e.g., a \$10,000 program could fund a \$100 rebate for 100 audits).
- 4) Should this program should be linked to the home buying process, and if so, how.

This type of program could serve as a precursor to a more robust program that could be done when the City makes the switch to Desert Community Energy (DCE). The program would be subject to DCE Board approval and input from DCE's Community Advisory Committee, but the City's initial work could provide important lessons learned about the effectiveness of such a program.

CONDITIONED FLOOR AREA: 1,500 ft<sup>2</sup>  
YEAR BUILT: 1970

12345 Honeysuckle Lane  
Smithville, AR 72466

SCORE TODAY **3**



The U.S. Department of Energy's Home Energy Score assesses the energy efficiency of a home based on its structure and heating, cooling, and hot water systems. For more information visit [HomeEnergyScore.gov](http://HomeEnergyScore.gov).

12345 Honeysuckle Lane  
Smithville, AR 72466SCORE  
TODAY **3**

## Home Facts

The Home Energy Score's Home Facts includes details about the home's current structure, systems, and estimated energy use. For more information about how the score is calculated, visit our website at [HomeEnergyScore.gov](http://HomeEnergyScore.gov).

## About This Home



### ASSESSMENT

Type Official  
Assessor ID #1234567  
Scoring tool version v2016

### HOME CONSTRUCTION

Year built 1970  
Number of bedrooms 3  
Stories above ground level 1  
Interior floor-to-ceiling height 10  
Conditioned floor area 1,500 ft<sup>2</sup>  
Direction faced by front of house North  
Air sealed? No  
Air leakage rate 6,500 CFM50

## Estimated Annual Energy Use



### ENERGY BY TYPE

Total 204 MBtus  
Score basis 141 MBtus  
Electricity 11,956 kWh  
Natural gas 519 therms  
Propane 226 gallons

### COST BASIS

Electricity \$0.091 / kWh  
Natural gas \$1.153 / therms  
Propane \$2.171 / gallon  
Energy cost per square foot \$1.45 / ft<sup>2</sup>

### DEFINITIONS & CONVERSIONS

MBtu Million British thermal units; generic energy unit  
kWh Kilowatt-hour; electricity unit  
Therm 100,000 Btu; heat energy unit  
Electricity conversion 1 MBtu = 293 kWh  
Heat conversion 1 MBtu = 10 therms

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## Roof / Attic



### ROOF / ATTIC 1

Attic floor area	500 ft <sup>2</sup>
Roof construction	Roof with Radiant Barrier / Composition Shingles or Metal / R-0
Roof color	Medium dark
Attic: ceiling type	Unconditioned attic
Attic floor insulation	R-25

### ROOF / ATTIC 2

Attic floor area	1,000 ft <sup>2</sup>
Roof construction	Standard Roof / Composition Shingles or Metal / R-0
Roof color	Medium dark
Attic: ceiling type	Unconditioned attic
Attic floor insulation	R-9

## Foundation



### FOUNDATION / FLOOR 1

Floor area	500 ft <sup>2</sup>
Foundation type	Slab-on-grade foundation
Foundation walls insulation	R-0

### FOUNDATION / FLOOR 2

Floor area	1,000 ft <sup>2</sup>
Foundation type	Unconditioned basement
Floor insulation above foundation	R-0
Foundation walls insulation	R-0

## Walls



<u>WALL CONSTRUCTION</u>	<u>TYPE / EXTERIOR FINISH</u>	<u>INSULATION VALUE</u>
Front	Wood frame with Optimum Value Engineering (OVE) / Brick Veneer	R-19
Back	Wood frame / Wood, Asbestos, Fiber Cement, Shingle, or Masonite	R-0
Right	Concrete block or stone / Stucco	R-3
Left	Wood frame with rigid foam sheathing / aluminum siding	R-3

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## Windows & Skylights



### WINDOW AREA

Front	70 ft <sup>2</sup>
Back	90 ft <sup>2</sup>
Right	40 ft <sup>2</sup>
Left	30 ft <sup>2</sup>

<u>WINDOW CONSTRUCTION</u>	<u>PANES</u>	<u>FRAME</u>	<u>GLAZING or U-VALUE &amp; SHGC</u>
Front	Single	Aluminum	Clear
Back	Double	Wood or Vinyl	Solar-controlled low-E
Right	Double	Aluminum w/ thermal break	Insulating low-E, argon gas fill
Left	Triple	Wood or vinyl	Insulating low-E, argon gas fill

### SKYLIGHTS ROOF / ATTIC 1

Present?	Yes		
Area	30 ft <sup>2</sup>		
Type	Single	Aluminum	Tinted

### SKYLIGHTS ROOF / ATTIC 2

Present?	No
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## Systems



### HVAC SYSTEM 1

Percent conditioned area served **33%**  
 Heating type **Electric heat pump**  
 Heating efficiency value **7.8 HSPF**  
 Cooling type **Electric heat pump**  
 Cooling efficiency value **12 SEER**

### DUCT SYSTEM 1

	<u>INSULATED?</u>	<u>SEALED?</u>	<u>PERCENT OF DUCTS IN THIS LOCATION</u>
Unconditioned attic	Yes	No	100%

### HVAC SYSTEM 2

Percent conditioned area served **67%**  
 Heating type **Central gas furnace**  
 Heating installation year **2009**  
 Cooling type **Central air conditioning**  
 Cooling installation year **2009**

### DUCT SYSTEM 2

	<u>INSULATED?</u>	<u>SEALED?</u>	<u>PERCENT OF DUCTS IN THIS LOCATION</u>
Unconditioned basement	No	No	50%
Unconditioned attic	No	No	25%
Conditioned space	No	No	25%

### HOT WATER

System type **LPG storage**  
 Installation year **1997**

12345 Honeysuckle Lane  
Smithville, AR 72466SCORE  
TODAY

3

## Recommendations

The Home Energy Score's Recommendations show how to improve the energy efficiency of the home to achieve a higher score and save money. When making energy related upgrades, homeowners should consult with a certified energy professional or other technically qualified contractor to ensure proper sizing, installation, safety, and adherence to code. Learn more at [HomeEnergyScore.gov](http://HomeEnergyScore.gov).

**REPAIR NOW.** These improvements will save you money, conserve energy, and improve your comfort.



- ▶ **Air Tightness:** Have a professional seal all the gaps and cracks that leak air to save **\$110** / year
- ▶ **Ducts 1:** Add insulation around ducts in unconditioned spaces to at least R-6 to save **\$43** / year
- ▶ **Attic 2:** Increase attic floor insulation to at least R-19 to save **\$57** / year
- ▶ **Ducts 2:** Add insulation around ducts in unconditioned spaces to at least R-6 to save **\$23** / year
- ▶ **Ducts 2:** Have a professional seal all the gaps and cracks that leak air to save **\$74** / year

**REPLACE LATER.** These improvements will help you save energy when it's time to replace or upgrade.



- ▶ **Windows:** Choose those with an ENERGY STAR label to save **\$61** / year
- ▶ **Water Heater:** Choose one with an ENERGY STAR label to save **\$159** / year
- ▶ **Electric Heat Pump:** Choose one with an ENERGY STAR label to save **\$32** / year

## Comments



Current local incentives may make this house a good candidate for a new water heater.

# California Home Energy Audit Certificate

## Energy Impact

### Greenhouse Gas Emissions

CO<sub>2</sub> = 3.86 tons/year

### Energy Consumption

Electricity (kWh/year)	
Heating	772
Cooling	603
Water Heating	0
Lights	623
Appliances	2,992
<b>Total</b>	<b>4,990</b>

### Natural Gas (therms/year)

Heating	155
Cooling	0
Water Heating	194
Lights	0
Appliances	17
<b>Total</b>	<b>366</b>

### Operating Cost (\$/year)

Electricity	\$588
Gas	\$366
<b>Total</b>	<b>\$954</b>

### Renewable Energy Production

Electricity 0

### Ancillary Energy Uses

Electricity 0  
Gas 0

### Information on Compliance With Other Programs:

N/A



### Qualifying Information: BPC NOT AUTHORIZED

Software estimates are based on typical occupancy patterns which may be different from your household use patterns. As a result, these software estimates may not match the household's energy actual consumption. Occupant's energy use patterns may change after energy efficiency upgrades.

### HERS Provider:

CalCERTS, Inc  
31 Natoma St Suite 120  
Folsom, CA 95630  
916-985-3400  
www.calcerts.com

### Rating Information

Rating Number: CC11-1798847021  
EnergyPro Version: 5.1.9.1  
Certified Rater: John Rater  
USR999999  
John Rater's HVAC  
Folsom, 95630  
Rating Date: March 26, 2014



Official Home Energy Audit  
in conformance with the  
requirements of the  
California Energy  
Commission  
www.energy.ca.gov

## Site Information

### Address

1301 Bidwell  
Folsom, CA 95630

### General Information

Conditioned Floor Area 1,184 ft<sup>2</sup>  
Conditioned Volume 9,476 ft<sup>3</sup>  
Bedrooms 2  
House Type SingleFamily  
Foundation Type Slab on Grade

## Energy Efficiency Features

### Insulation

Ceiling R-30  
Wall R-13  
Floor Over Crawlspace None  
Slab Edge None, 0

### Windows

SHGC 0.63, 0.67, 0.83  
U-Factor 0.66, 0.84, 1.19

### Heating System

GasFurnace 0.95 AFUE  
Ducted  
Electric Heat Pump 9 HSPF  
DuctlessFan  
Electric Heat Pump 9 HSPF  
DuctlessFan

### Cooling System

Split A/C 14.5 SEER  
Ducted  
Split A/C 18 SEER  
Ductless  
Split A/C 18 SEER  
Ductless

### Ventilation System

None

### Water Heating System

1 - 50 Gal GasFired (0.6 EF)

ELECTRONICALLY SIGNED by

*John Rater*

at CalCERTS, Inc

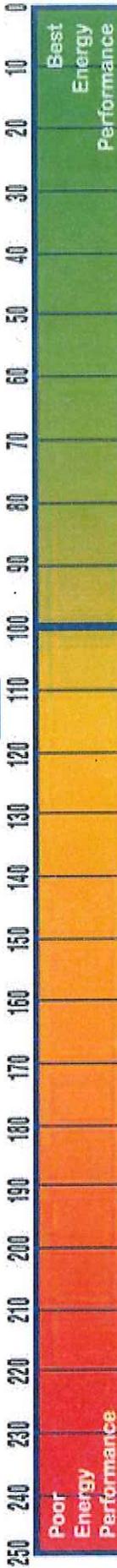
Energy Auditor Signature

Date: \_\_\_\_\_

# California Home Energy Rating Certificate

YOUR HOME

113



Net Zero Energy Home

High Energy Efficiency / Solar Home

2008 Standards New Home

Range for typical existing home 101-250

**Information on Compliance With Other Programs:**  
N/A

**Qualifying Information:**  
**BPC NOT AUTHORIZED**

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**Cooling System**  
Split A/C 14.5 SEER  
Ducted 18 SEER  
Split A/C 18 SEER  
Ductless 18 SEER  
Split A/C Ductless

**Water Heating System**  
1 - 50 Gal GasFired (0.6 EF)

**Official Home Energy Rating**

in conformance with the requirements of the California Energy Commission  
www.energy.ca.gov



**HERS Provider:**  
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Rating Date: March 26, 2014  
ELECTRONICALLY SIGNED by

**John Rater**  
at CalCERTS, Inc

Rater Signature \_\_\_\_\_ Date \_\_\_\_\_





## Explanation of Energy Features

### General Information

Your **2** bedroom, **Single Family** home built in **1985** has **1,184** square feet of Conditioned Floor Area, and has a volume of **9,476** cubic feet. Conditioned floor area means how large is the part of your home that is served by your heating and cooling system. Your garage is not conditioned floor area. A porch that is outside or an added room that has no duct work in it are also examples of unconditioned floor area. The number of bedrooms and whether yours is a single family home or a multifamily home are factors that are used to help estimate energy usage and occupancy behavior.

Home energy software estimates are based on typical occupancy patterns and thermostat settings, hot water use, appliance use, and other factors, which may be different than your household's use patterns. As a result consumers are cautioned that these software estimates may not match the household's actual energy savings. It's also possible that your energy use patterns may change after energy efficiency upgrades as household members adjust to new equipment and changed comfort conditions.

### Energy Efficiency Features in Your Home

**Insulation** is used to help slow down the gain or loss of heat in your home. Insulation can be installed in walls, attics (called "ceiling insulation"), around the ducts and along the edge of the slab, or under the floor. More insulation is better, if it is installed properly. Insulation is measured in R-Value, so the higher the R number, the better the insulation. The insulation in your Ceiling is **R-30**; the insulation in your Walls is **R-13**; the insulation in your Crawlspace is **None**; the insulation on your Slab Edge is **None, 0**.

**Windows** are an important energy feature. After all, a window is just a large hole in the wall, so it is an important factor in saving energy. The window frame transfers heat directly into and out of your home, and it needs to keep unwanted air from leaking around the window into your home. The glass may be single or dual pane (dual pane is more energy efficient) and the glass may have some special characteristics that add even more energy efficiency. Your home has windows with SHGC Ratings of **0.63, 0.67, 0.83** and U-Factors of **0.66, 0.84, 1.19**.

**The Heating System** is one of the highest users of energy in your home, depending on the climate where you live. It is very important for both comfort and health and safety. Your home has **3** systems. System #1 has a **Gas Furnace** with an **AFUE** of **0.95**. System #2 has a **Electric Heat Pump** with an **HSPF** of **9**. System #3 has a **Electric Heat Pump** with an **HSPF** of **9**. AFUE means "Annual Fuel Utilization Efficiency". This is just a fancy term for how energy efficient is the heating system...just like "miles per gallon" of your car. Of course, the better miles per gallon your car gets, the less fuel you have to buy, so it is the same with your heating system, which translates to lower utility bills.

**The Cooling System** is also a very high energy user, again, depending on whether you live in a hot or cold climate area. Your home has **3** systems. Cooling system #1 is a **Split A/C** and has a **SEER** value of **14.5**. Cooling system #2 is a **Split A/C** and has a **SEER** value of **18**. Cooling system #3 is a **Split A/C** and has a **SEER** value of **18**. SEER is the "miles per gallon" number for air conditioners. SEER stands for "Seasonal Energy Efficiency Ratio".

**A Ventilation System** is used to provide fresh air, circulate it, and remove stale air at a specific rate. Your home Does Not Have a ventilation system.

**The Water Heating System** in your home is another pretty large user of energy, especially if it is older, leaky or has little or no insulation on it or in it. There are many different types of water heating systems. The most common is a "storage tank" that uses gas to heat the water and then keep it in the tank until it is needed. The efficiency of a hot water heating system is usually stated by the "energy factor". The higher the number, the more efficient the system is. The Hot Water Heating System in your home is a **Gas Fired**, and the Energy Factor is **0.6**.



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## Custom Alternatives and Recommendations

The list of Recommended Custom Improvements indicates how each individual improvement affects the energy efficiency of your home. The list below shows you the savings that are possible if you make each of the Recommended Improvements independently. In order to see how each improvement will affect your energy efficiency if all were installed, we suggest you run a Standard Report.

Improving only your home's **Roof Insulation** to **R-49.0** will improve your home's HERS Index Score to **110** and provide an individual estimated annual savings of **\$16**.

Improving only your home's **Building Leakage** to a CFM of **1860** will improve your home's HERS Index Score to **111** and provide an individual estimated annual savings of **\$22**.

Improving only your home's **Appliances** by getting a Dishwasher with an **Energy Factor** of **0.67** and by getting an indoor refrigerator that uses **450** will improve your home's HERS Index Score to **109** and provide an individual estimated annual savings of **\$32**.

Improving only your home's **Domestic Hot Water Heater** to a **Gas Fired** with a **0.0 Gallon Capacity** and an EF Rating of **0.840** will improve your home's HERS Index Score to **106** and provide an individual estimated annual savings of **\$68**.

Improving **ALL of the Above Improvements** to your home will improve your home's HERS Index Score to **96** and provide an individual estimated annual savings of **\$136**.

CalCERTS, inc.®

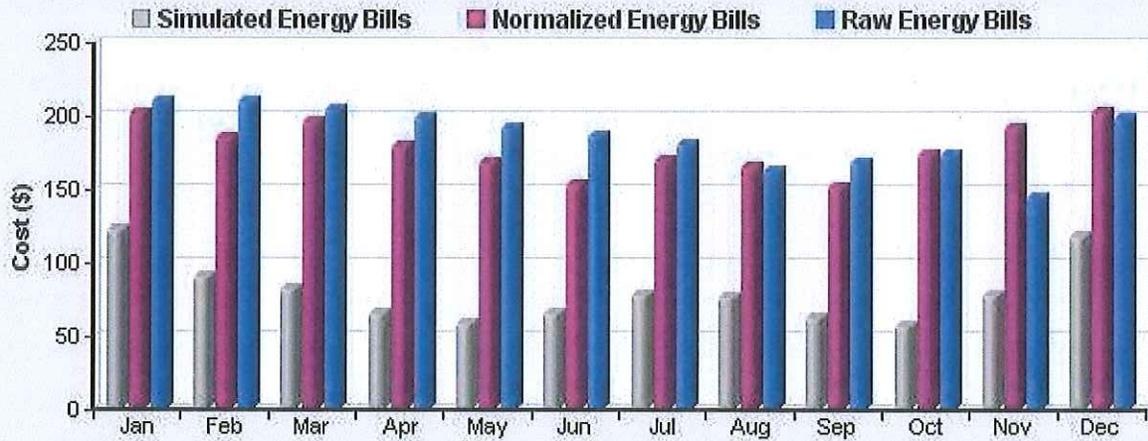




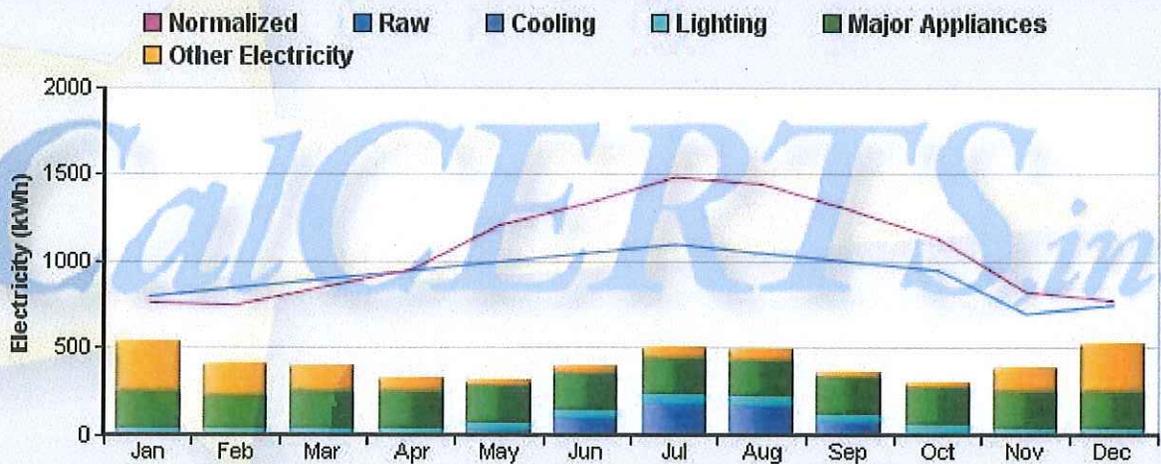
# California Home Energy Consumption Analysis

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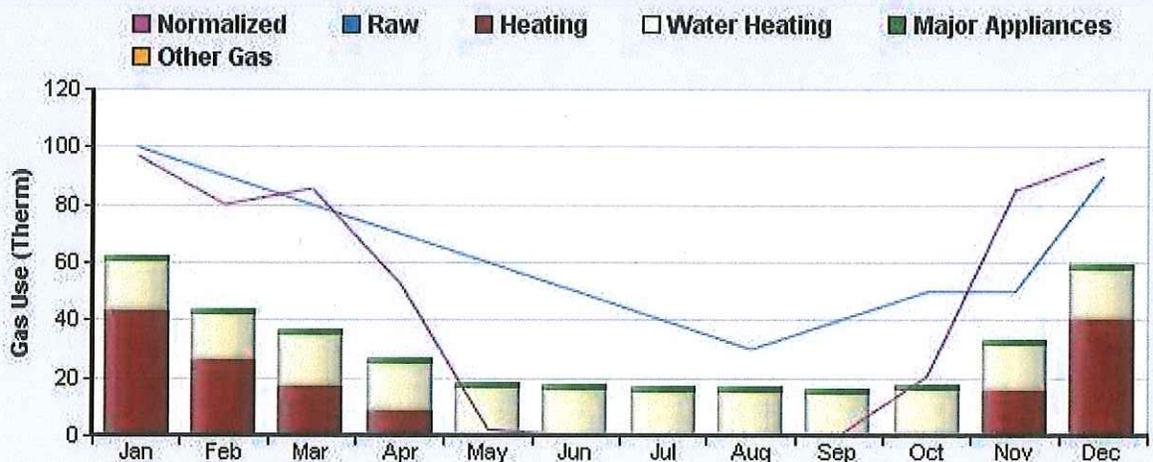
## Energy Cost



## Electricity Use



## Gas Use



# California Home Energy Consumption Analysis

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## TABULAR REPORT

Month	Electricity		Gas		Total Cost
	Cost	kWh Used	Cost	Therms Used	
<b>Jan</b>	\$90.00	800	\$120.00	100	\$210.00
<b>Feb</b>	\$102.00	850	\$108.00	90	\$210.00
<b>Mar</b>	\$108.00	900	\$96.00	80	\$204.00
<b>Apr</b>	\$114.00	950	\$84.00	70	\$198.00
<b>May</b>	\$120.00	1000	\$72.00	60	\$192.00
<b>Jun</b>	\$126.00	1050	\$60.00	50	\$186.00
<b>Jul</b>	\$132.00	1100	\$48.00	40	\$180.00
<b>Aug</b>	\$126.00	1050	\$36.00	30	\$162.00
<b>Sep</b>	\$120.00	1000	\$48.00	40	\$168.00
<b>Oct</b>	\$114.00	950	\$60.00	50	\$174.00
<b>Nov</b>	\$84.00	700	\$60.00	50	\$144.00
<b>Dec</b>	\$90.00	750	\$108.00	90	\$198.00

## Utility Rates

Type	Electricity	Electricity	Gas	Gas
<b>Name</b>	SMUD RSE, RSC	SMUD RSE, RSC	PG&E G1 R	PG&E G1 R
<b>Season</b>	SMUD RSE, RSC Winter	SMUD RSE, RSC, RSG Summer	PG&E G1 R Winter	PG&E G1 R Summer
<b>CO2</b>	.69	.69	11.65	11.65
<b>Meter Charge</b>	\$7.20	\$7.20	\$0.00	\$0.00
<b>Tier 1 Rate</b>	\$0.097	\$0.105	\$0.981	\$0.981
<b>Tier 1 Threshold</b>	1120	700	55	14
<b>Tier 2 Rate</b>	\$0.179	\$0.186	\$1.24	\$1.24
<b>Tier 2 Threshold</b>	0	0	0	0
<b>Tier 3 Rate</b>	\$0	\$0	\$0	\$0
<b>Tier 3 Threshold</b>	0	0	0	0





## Home Energy Audit Report Comparison Chart

Report Name	Home Energy Score	HERS II Rating	Home Energy Report
Certifying Entity	Department of Energy	CalCERTS / CHEERS	InterNACHI
Currently available in Coachella Valley	No	Yes	Yes
Includes rating	Yes	Yes	No
Rating linked to house sale / listing	Yes	No	No
Rating system	1-10 (higher is better)	0-250 (lower is better)	None
Diagnostic testing	Blower door optional; cannot enter duct blaster measurement into Home Energy Score	Blower door, duct blaster	None
Number of data inputs	50+	50+	About 40
Field work + data input time	1.25 hours	4 – 8 hours	10 minutes, if done as part of a general home inspection; less than one hour, if done as a stand-alone inspection service
Estimated cost	\$150 – \$250	\$300 – \$600	\$100 with concurrent home inspection, \$175 without
Estimated Annual Energy Use	Yes	Yes	Yes
Energy Efficiency Recommendations	Yes	Yes	Yes
Estimated Energy Efficiency Cost Savings	Yes	Yes	Yes