

Home Energy Performance Report

Project: *Sample Report*
Address: *123 Main St*
Escondido, CA 92025

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This report includes the results of an on-site assessment of this project for the purposes of the evaluation of the energy consumption and upgrade potential of the building. Results reported are based upon information determined at the site, and discussions with the project occupants as well as incorporating published typical weather year information. If you have any questions about this report or would like to discuss the details or findings, please call or e-mail us

Project Summary

123 Main St

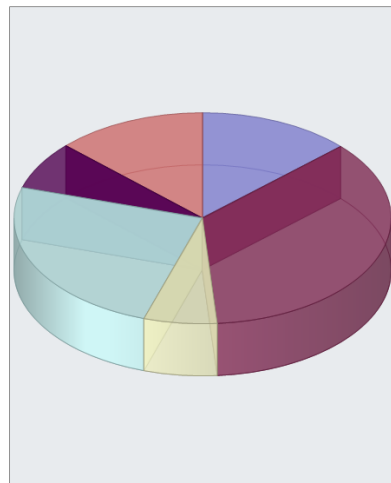
Escondido, CA 92025

Date of Audit:	8/11/2014
Conditioned Floor Area:	1,071
Number of Stories:	1
Number of Bedrooms:	2

House Type:	Single Family
Foundation Type:	Raised Floor
California Climate Zone:	10
Weather Data:	CZ10RV2.wy2

WHERE THE ENERGY IS USED

\$341	Heating
\$930	Cooling
\$164	Lighting
\$643	Appliances
\$192	DHW
\$337	Other



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.

Energy Use Summary

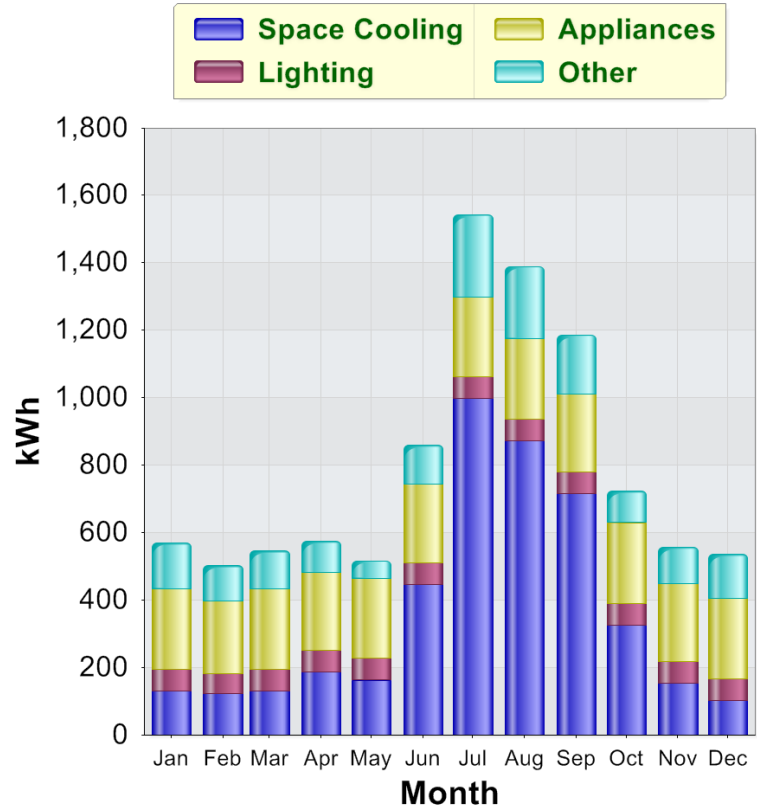
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The tables and graphs below summarize the major energy uses in the home for both electricity and fossil fuels. Ancillary uses include swimming pools and spas.

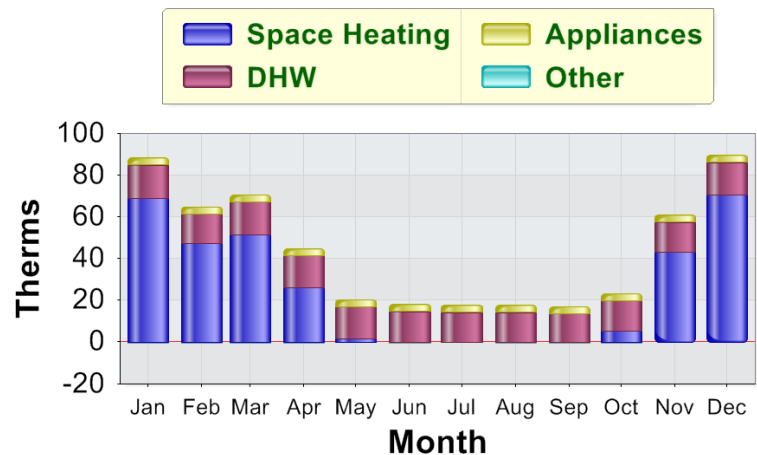
ELECTRICITY

End Use	kWh/yr
Space Heating	0
Space Cooling	4,357
Fans	1,578
Pumps	0
Domestic Hot Water	0
Indoor Lighting	722
Outdoor Lighting	45
Appliances	2,806
Ancillary	0
Renewables	0
TOTAL	9,508



FOSSIL FUEL

End Use	Therms/yr
Space Heating	314
Domestic Hot Water	177
Appliances	41
Ancillary	0
TOTAL	532



Recommendations

123 Main St

Escondido, CA 92025

The recommendations shown in this table are based upon the computerized analysis of the home, and show predicted energy and cost savings. Savings may vary depending upon occupant use habits as well as the proper installation of measures.

Improvement	Description	Annual Savings	Est. Cost to Install	Savings	
				Site	TDV
Wall Insulation	Type = R-13 Wall Cavity Insulation = 13.0 R-Value Interior Insulation = 0.0 R-Value Exterior Insulation = 0.0 R-Value	\$512	\$0	19.9 %	17.2 %
Floor Insulation	Type = R-19 Floor Crawlspace Cavity Insulation = 19.0 R-Value Interior Insulation = 0.0 R-Value Exterior Insulation = 0.0 R-Value	\$574	\$0	25.4 %	20.6 %
Building Leakage	Building Leakage = 4.5 SLA Leakage Rate at 50 Pascals = 1250 cfm	\$595	\$0	27.1 %	21.8 %
HVAC Duct Leakage	Repair and tighten ducting & return system.	\$1,019	\$0	35.9 %	35.4 %
Appliances	Indoor Refrigerator = 549 kWh Garage Refrigerator = 0 kWh Dishwasher = 10.00 EF	\$1,210	\$0	38.3 %	39.5 %

Each savings row also includes the savings from prior rows in table

Recommendations

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The recommendations shown in this table are based upon the computerized analysis of the home, and show predicted energy and cost savings. Savings may vary depending upon occupant use habits as well as the proper installation of measures.

Improvement	Description	Annual Savings	Est. Cost to Install	Savings	
				Site	TDV
Indoor Lighting	Indoor Lighting Type = High Efficacy Control = On/Off Switch	\$1,281	\$0	39.2 %	41.1 %
Outdoor Lighting	Outdoor Lighting Type = High Efficacy Control = Sensor	\$1,288	\$0	39.3 %	41.2 %
Domestic Hot Water Heater	Name = Tankless DHW .91EF Type = Gas Fired Volume = 0.2 gal Efficiency = 0.910 EF	\$1,358	\$0	46.9 %	44.7 %

Each savings row also includes the savings from prior rows in table

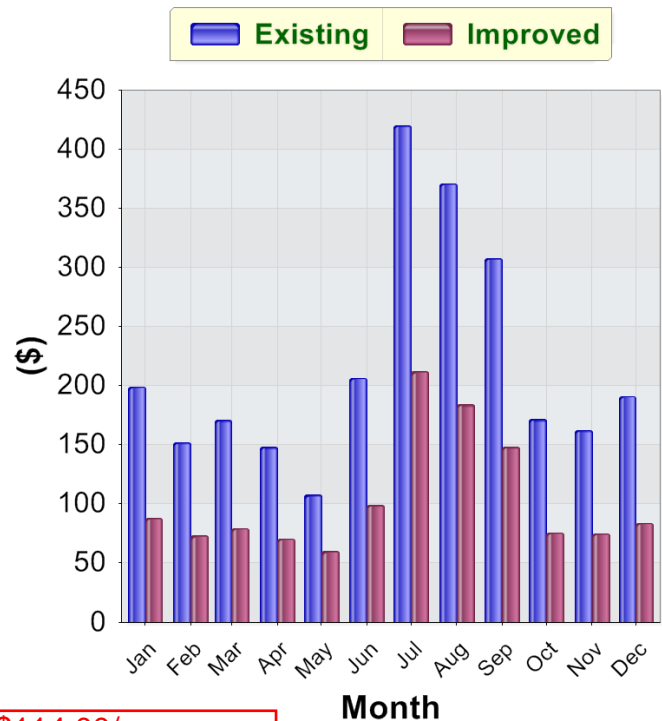
Recommendations

123 Main St

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The summary below compares the annual home energy cost before and after the measures shown in the recommendations table. Some savings may occur in features that have not been upgraded simply because the reduced energy usage from other recommendations moves the home into a lower utility rate tier. The existing data shown is based upon the calculated amount the home would use under normal weather and operating conditions.

Annual Results	Energy Cost		
	Existing	Improved	Savings
Space Heating	\$341	\$112	\$229
Space Cooling	\$930	\$403	\$527
Fans	\$337	\$138	\$199
Pumps	\$0	\$0	\$0
Domestic Hot Water	\$192	\$116	\$76
Indoor Lighting	\$154	\$76	\$78
Outdoor Lighting	\$10	\$2	\$7
Appliances	\$643	\$402	\$242
Ancillary	\$0	\$0	\$0
Renewables	\$0	\$0	\$0
TOTAL	\$2,608	\$1,250	\$1,358



← **\$114.00/mo**

Misc	Existing	Improved	Savings
Average Demand (kW)	7.43	4.08	3.36
TDV Energy (kBtu/ft ² -yr)	258.36	142.83	115.54

Demand usage is important to the utility as it impacts how much power plant capacity they must have at a given hour. Time Dependent Valuation (TDV) energy is a metric used by the California Energy Commission to value energy at different hours of the year.

CO ₂ (tons/year)	Existing	Improved	Savings
Electricity	2.98	1.78	1.20
Fossil Fuel	2.81	1.38	1.43
TOTAL	5.79	3.16	2.63

This table compares calculated Carbon Dioxide (CO₂) emissions before and after the home improvements. By reducing the energy usage of the home, the amount of CO₂ emissions resulting from electricity production and fossil fuel combustion will be reduced.

← **Not driving a car for 3 months**

Recommendations

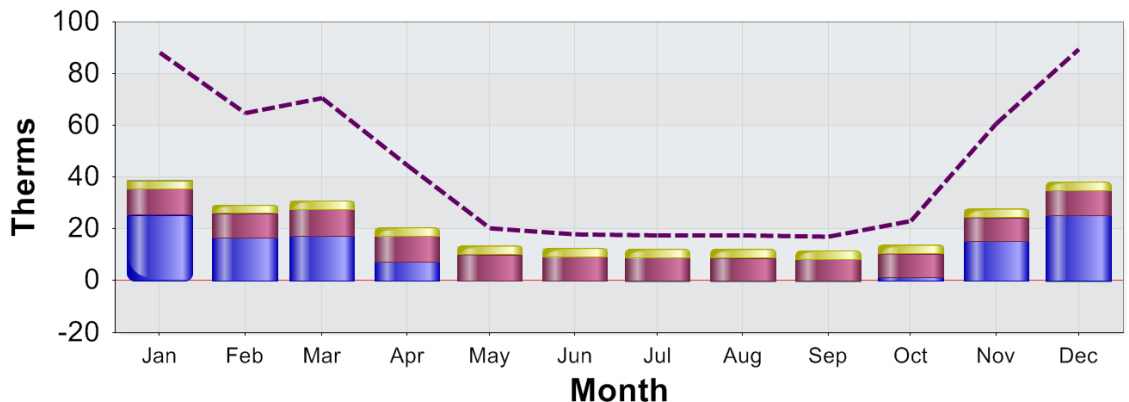
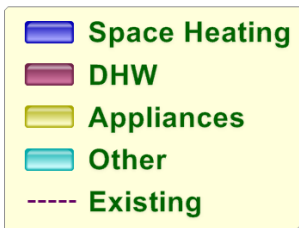
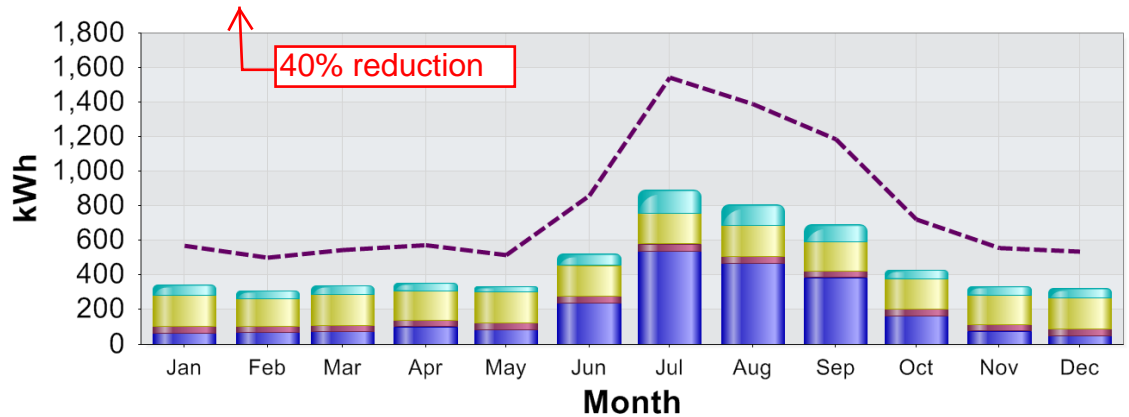
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Annual Results	Electricity (kWh)			Fossil Fuel (therms)		
	Existing	Improved	Savings	Existing	Improved	Savings
Space Heating	0	0	0	314	108	206
Space Cooling	4,357	2,339	2,018	0	0	0
Fans	1,578	799	779	0	0	0
Pumps	0	0	0	0	0	0
Domestic Hot Water	0	0	0	177	112	65
Indoor Lighting	722	439	282	0	0	0
Outdoor Lighting	45	13	32	0	0	0
Appliances	2,806	2,086	721	41	41	0
Ancillary	0	0	0	0	0	0
Renewables	0	0	0	0	0	0
TOTAL	9,508	5,676	3,832	532	261	271

This summary compares the calculated annual home energy usage before and after the measures shown in the recommendations table. The existing data shown is based upon the calculated amount the home would use under normal weather and operating conditions.

40% reduction will lower capacity making solar more affordable.



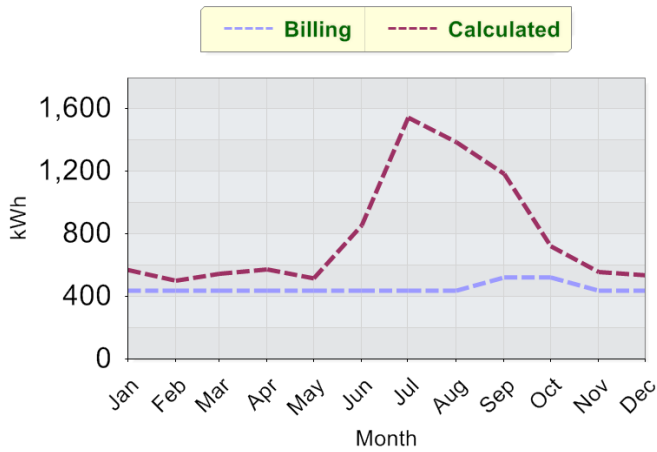
Utility Bill Summary

123 Main St

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These graphs show the energy use for the home based upon billing data collected from the utility. Also shown are the projected use numbers based upon the energy simulation tool for a typical year. The projected use numbers may vary from the actual year of billing data due to occupant use patterns and differing weather conditions.

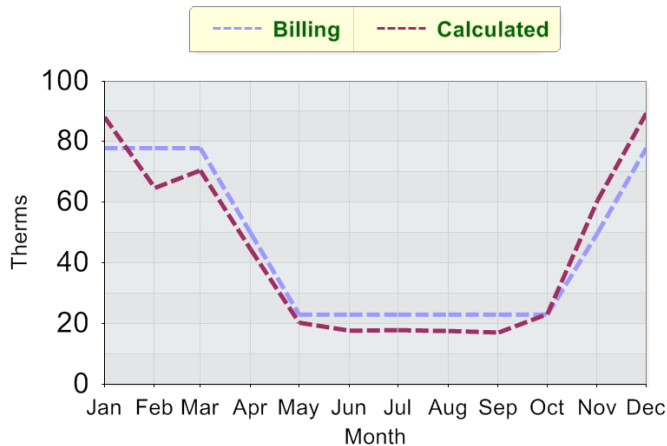
ELECTRICITY



Many electricity rates are tiered, which means you get charged a higher rate per unit of electricity used as your usage increases. Saving energy in these higher tiers can produce substantial cost savings.

SDG&E Inland		
	kWh Tier	Rate
SDG&E Inland Winter	324 kWh	\$0.1381/kWh
	421.2 kWh	\$0.1595/kWh
	648 kWh	\$0.2720/kWh
	Over	\$0.2920/kWh
SDG&E Inland Summer	336 kWh	\$0.1381/kWh
	436.8 kWh	\$0.1595/kWh
	672 kWh	\$0.2890/kWh
	Over	\$0.3090/kWh

FOSSIL FUEL



SDG&E Gas		
	Therm Tier	Rate
SDG&E Gas Winter	46.38 therms	\$1.036/therm
	Over	\$1.192/therm
SDG&E Gas Summer	14.79 therms	\$1.036/therm
	Over	\$1.192/therm

The tables above show the utility rate structure for the home which is based upon usage tiers.