

# SMUD'S HOME OF THE FUTURE

RJ Walter Homes has teamed up with the Sacramento Municipal Utility District (SMUD), the U.S. Department of Energy (DOE), and the National Renewable Energy Laboratory (NREL) to build the Sacramento area's first LEED Platinum Home - SMUD's Home of the Future.

SMUD's Home of the Future will be built to meet the exacting standards of the LEED for Homes program. Developed by the US Green Building Council (SGBC), LEED for Homes is a rating system that promotes the design and construction of high-performance green homes.

The LEED for Homes Rating System measures the overall performance of a home in eight categories:

## 1. The Design Process

Design strategies that result in improved resource efficiency

## 2. Community

Placing the home in socially and environmentally responsible ways

## 3. Site

Minimizing the project's impact on the site

## 4. Water Use

Efficient indoor and outdoor water practices

## 5. Indoor Environmental Quality

Reducing the creating of and exposure to indoor pollutants

## 6. Energy Use

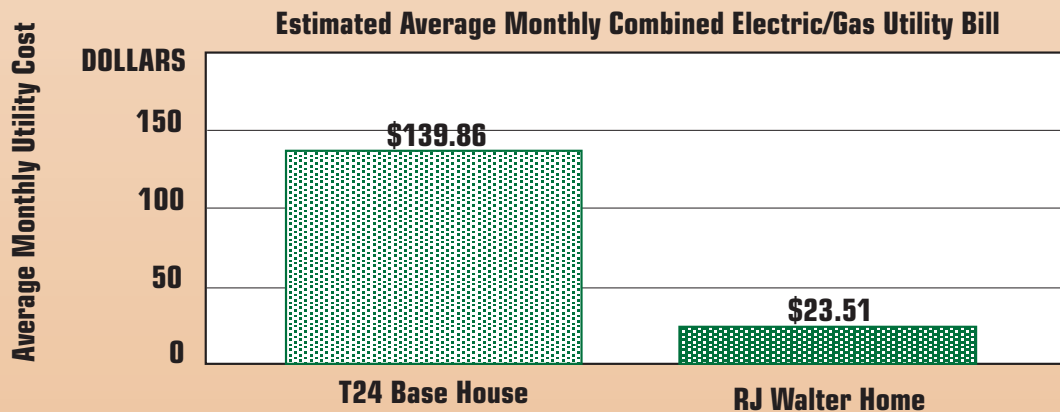
Minimizing the home's need for heating, cooling, and water heating

## 7. Material Use

Efficiently using and selecting environmentally preferred materials and minimizing construction waste

## 8. Homeowner Education

Educating the homeowner about the operation and maintenance of a LEED home



## PROJECT INFORMATION

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**SMUD's Home of the Future includes advanced, state-of-the-art energy efficiency and environmental features, including:**

3.85 kW PAC BP solar energy system  
[www.bpsolar.us](http://www.bpsolar.us), [www.ocrsolrandroofing.com](http://www.ocrsolrandroofing.com)

Solar-assisted hot water and space heating with an advanced, single-tank 97% efficient water boiler that saves space and money – [www.jtgmuir.com](http://www.jtgmuir.com)

Advanced Framing–  
2x6 stack framing with blow-in cellulose insulation, two layer of icynene foam and 6" of sprayed in foam insulation creates a tight house from top to bottom – [www.productionframing.com](http://www.productionframing.com), [www.mascocontractorsservice.com](http://www.mascocontractorsservice.com), Weyhaeuser, Demilec

Smart Vent fresh air system–  
automatically circulates filtered outdoor air throughout the home with all doors and windows secure – [www.beutler.com](http://www.beutler.com)

Tankless water heater–  
Produces up to 8.5 gallons of hot water per minute, saving up to 30% in energy costs per year  
[www.ge.ecomagination.com](http://www.ge.ecomagination.com), T5 Construction

Low-flow showers and toilets–  
saves much water over the lifetime of the home

Aqua Cool–  
Aqua Cool state-of-the-art water cooled evaporative air conditioner – [www.beutler.com](http://www.beutler.com)

Energy-efficient lighting throughout–  
Fluorescent and advanced LED fixtures last ten times longer and use 75% less energy than standard lighting – [www.ge.ecomagination.com](http://www.ge.ecomagination.com), [www.cree.com/products](http://www.cree.com/products)

Spectrally selective glass for windows–  
dual pane windows with specially coated

"Thermafect" low "e" glazing to reduce radiant heat gain and loss – [www.certainteed.com](http://www.certainteed.com)

Energy Star appliances–  
money saving clothes washers, refrigerators, and dishwashers – [www.ge.ecomagination.com](http://www.ge.ecomagination.com)

Water efficient landscaping and irrigation

Low Voc Paints and sealants

An advanced home automation system that allows the homeowner to monitor and control lighting, heating, air conditioning and irrigation systems  
[www.gge.ecomagination.com](http://www.gge.ecomagination.com), Direct Home Solutions, RCS

Independent, third party testing and inspection performed by home energy raters who are certified and monitored by CalCerts, the California Home Energy Efficiency Rating System (CHEERS), or the California Energy Commission –  
[www.eflhome.com](http://www.eflhome.com), [www.davisenergy.com](http://www.davisenergy.com)

Energy saving window coverings  
[www.hunterdouglas.com](http://www.hunterdouglas.com)

Daylighting with automated skylight and suntubes  
[www.velux.com](http://www.velux.com)

Cabinets constructed locally with FSC-certified wood with no urea formaldehyde resins.

Flooring made from recycled material (complies with Green Label Plus program)

Central Vaccum–  
Central Vaccum and MERV 13 air filters for better indoor air quality

*Working together:* Sacramento Municipal Utility District, Building Science Consortium, Fujitsu, OCR Solar and Roofing, Production Framing Systems, inc, Williams Lumber, inc, Hunter Douglas, Beutler Corporation, Cree LED Lighting Solutions, NREL, U.S. Department of Energy, Environments for Living, MASCO Contractor Services, Western Insulation, Direct Home Solutions, Weyhaeuser, RCS, BP Solar, Velux, Demilec, T5 Construction, Davis Energy Group, and Certainteed

