

Farrar Green Home

www.FarrarGreenHome.org



Farrar Green Home

- Net Zero Energy
- Carbon Neutral
- SDG&E Advanced Case Study Home
- LEED Platinum Designation in Process



Gaitaud Construction
Design & Development Corporation



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- Infill development in an established neighborhood
- Overlooking Lake Hodges in Escondido
- 2 acres around the home will become a sustainable farm



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What Makes this Home Green?

Uses 54.7% less energy than the Title 24 standard

- ICF Construction
- Ground Source Geothermal Heat Pump
- 8.1 KW Sharp Photovoltaic Solar Array
- Green Design and Materials
- Smart Home Technology



TRI-COUNTY DRILLING, INC.



CABEC Regional Meeting

March 25, 2011

Rhonda Farrar

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ICF Construction



Compared to traditional stick frame construction ICF is:

- 4 times more heat insulative
- 7 times stronger in an earthquake
- 10 times more sound insulative
- won't burn, no termites, mold resistant



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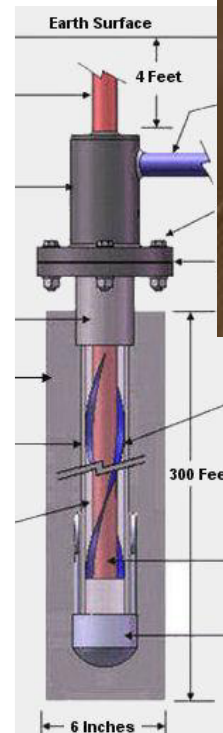


Ground Source Geothermal Heat Pump

- Transfers 70 year-round ground temperature inside the home
- Uses 1/3 the power of traditional HVAC systems
- Clean and quiet
- Runs entirely off of solar electricity
- No fossil fuels



Kelix Thermacouple



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What Makes this Home Green?

Green Design

- Designed to take maximum advantage of the sun for natural lighting and coastal breezes
- Passive ventilation with warm air venting through a solar chimney
- One wing of the house is optimally oriented for PV solar panels
- Standing seam metal roof with a radiant barrier – reflects heat and PV panels attach to seams
- Smart Home Design to optimally control electricity and water use



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What Makes this Home Green? Green Materials

- Bede thermally broken aluminum windows and doors
- Locally made La Cantina bi-fold doors
- Bamboo cabinetry throughout
- Teragren hi-performance bamboo floors, Nova Cork and Marmoleum floors
- Interceramic porcelain tiles made in Mexico
- Eco by Cosentino, Shetkastone and recycled glass/concrete countertops
- Lithonia LED Lighting throughout
- Fluidstone exterior coating
- Dunn Edwards Enso™ non-VOC paints



LACANTINA DOORS

marmoleum® click

Teragren®

THE BAMBOO FLOORING, PANELS & VINYL

NOVA
Distinctive Floors™

Interceramic®
Simplemente lo Mejor

LITHONIA LIGHTING®
An Acuity Brands Company

DAVIS
STONE INC.

eco
by COSENTINO

ShetkaStone
by ALL PAPER RECYCLING



FLUID STONE

Dunn Edwards
PAINTS

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