

# ECO-FRIENDLY CRAFTSMAN KITCHEN

*A small Craftsman kitchen gets a green makeover that stays true to its original style*



## GREEN at a GLANCE

### ENERGY & SYSTEMS

- Solar hot water system (Sun Light and Power)
- Insulating jacket added to existing water heater
- Fiberglass attic insulation with no added formaldehyde (Johns Manville)
- Low-e, wood-framed windows (Marvin Tilt-Pac)
- Natural-gas fireplace replaced pellet-burning fireplace
- Upgraded lighting circuits to eliminate old knob-and-tube wiring
- Compact fluorescent lighting
- Energy Star® dishwasher (Asko)
- Energy Star® refrigerator and horizontal-axis clothes washer (Kenmore)
- Range hood (Vent-A-Hood) and bathroom fan (Panasonic) vented to outside

### MATERIALS & PRODUCTS

- Finger-jointed studs for new kitchen wall (Truitt and White)
- Reused interior trim and light fixtures
- Upper cabinet backs are salvaged cedar (EarthSource)
- MDF with no added formaldehyde used for cabinet carcasses and baseboards (Meditate II from EarthSource)
- Recycled glass counters (Counter Production)
- Recycled glass tile behind stove and backsplash (Bedrock Industries)
- Natural linoleum kitchen flooring (Forbo Marmoleum)

### OTHER GREEN FEATURES

- Zero-VOC interior paint (Benjamin Moore Pristine Eco Spec)
- Cabinets finished with linseed-oil and beeswax-based finish (Tried & True)
- Removed upstairs carpeting and refinished wood floors with water-based urethane

Green remodeling makes sense for every style of home, including the East Bay's beloved Craftsman bungalows. When Bruce Mast and Juliet Cox decided to renovate the kitchen in their 1923 Craftsman home, they made sure that new windows, cabinets, flooring and other finishes harmonized with the original style. What's more, they selected products for their environmental attributes, including recycled content, low toxicity, durability and energy efficiency.

The owners did the design and much of the labor themselves, with assistance from family members. Subcontractors were hired for demolition, sheetrock, electrical, plumbing, tiling and linoleum installation.

*“My Dad, an old-time cabinetmaker and carpenter from Oklahoma, was pretty skeptical at first about building cabinet carcasses from Medite II. But by the end of the project he was sold.”*

—Bruce Mast, homeowner

## LESS WASTE DURING DEMOLITION

**Reuse what you can.** Old kitchen cabinets were reused for garage storage. Original redwood planks were used to rebuild the back fence. An outdoor brick fireplace was deconstructed; the couple plan to reuse the bricks for landscaping.

**Donate what you can't reuse.** Rather than demolishing the old kitchen and tossing the waste in a Dumpster, Mast and Cox donated many materials for reuse. Old single-pane windows, the kitchen sink and a pellet-burning fireplace insert went to Urban Ore's salvage yard in Berkeley. The stove was donated to a stove restoration shop in Richmond.

## RECYCLED & SALVAGED MATERIALS

**Recycled glass.** The backsplash is recycled glass tiles from Bedrock Industries. New counters from Berkeley's Counter Production also have a high recycled-glass content.

**Eco-friendly cabinets with traditional style.** Mast's father built the new custom cabinets, which are modeled after their antique hoosier (a hoosier is a freestanding kitchen storage and work-space cabinet). Glass in the new cabinet doors was salvaged from antique single-pane windows purchased at Urban Ore. Cabinet carcasses (shelves and vertical panels) are Medite II, a medium density fiberboard with no added formaldehyde. The backs of the upper cabinets are cedar from trees salvaged from the Andrew Jackson estate in Tennessee. Cabinets were finished with a linseed-oil and beeswax-based finish.

## WHOLE-HOUSE UPGRADES

**Solar hot water.** A solar collector on the roof provides hot water. The existing electric water heater, wrapped with a new insulating jacket, kicks in when the sun's not shining.

**Window upgrades.** Upstairs, single-pane, double-hung windows were replaced with double-pane, low-e, wood-framed windows that match the original Craftsman design.

**Improved insulation.** In the attic, new fiberglass insulation with no added formaldehyde makes the home more comfortable and reduces energy bills.

**ORIGINALLY BUILT:** 1923

**REMODEL COMPLETED:** 2005

**ORIGINAL SIZE:**

1,260 SF (plus finished basement)

**SIZE AFTER REMODEL:**

1,260 SF

**ARCHITECT:**

Owner

**GENERAL CONTRACTOR:**

Owner

*“Natural linoleum flooring was an obvious choice to go in our Craftsman-style kitchen: beautiful, durable, green and authentic.”*

—Bruce Mast, homeowner

