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Energy makeover near Wash Park replaces 9,300 pounds of CO2 a year



Over three decades, Mike and Jave Kephart have torn up and expanded their house north of Wash Park four different times; taking an 850foot cottage they bought on a near empty lot in 1978 to around 2,000 feet. But the fifth time's a charm...so this round, they've given the place a topto-bottom makeover that should drop their energy use back to where it was when it was a third its present size.

In the late '70s solar was the thing and Mike, nationally known as a residential architect, says he'd been keeping an eye on solar possibilities as they gradually expanded east toward Lafayette Street. But as the size grew, energy performance stayed poor.

"I was either too hot or too cold all the time," Jaye Kephart recalls. So the couple called in builder John Kurowski, known for custom homes but also for his energy and solar design expertise.

"Kurowski's people did a blower test, and we were embarrassed at how bad it was," said Jave. The crew set to work...and today, you can come see the results: a remodel that changed the shape only a little, but that

totally revamps how it heats and cools.

Included is a high-efficiency furnace, two separate units each with 3-speed motors; replacements for leaky skylights, now with low e-glass (one opens for cooling on a remote control and has a sensor that closes when a single raindrop hits); plus on-demand hot water...more efficient than a tank and so diminutive the couple gets an empty closet where the water heater stood. Insulation in the walls was too expensive to mess with, but Kurowski took ceiling spaces to R-38.

And a high tech piece-deresistance: three kilowatts of solar panels designed to offset 9,300 pounds of CO2 per year in exhaust down at the power plant. XCEL pays a rebate on that (coupled with tax credits that total about two-thirds of the \$32,000 cost) and buys back any extra juice generated.

Meanwhile, the Kepharts, who with Kurowski will be on hand today, are onto a new gig: Sidekick Homes, 'sustainable backyard cottages' where Mom can live behind your house. "It's an incredible solution to a lot of problems," said John Kurowski, "one that helps families stay bonded." It also, as the Kepharts will tell you, runs against some excessive zoning regs that in many areas discourage granny flats.



Jaye and Mike Kephart, front, were backed by project manager Jerry Thibault, left rear, builder John Kurowski, and project manager Gene Adams when they gave their Denver home an energy makeover.

IF YOU GO...

Where: House near Washington Park remodeled for energy savings, including 3.2 kW photovoltaic system, instant hot water. 245 S. Lafayette St.; take E. Alameda Avenue east from Broadway (or west from University) 2 blks east of Downing to Lafayette and turn north.

When: Today, 1 p.m. to 3 p.m.

Phone: 303-829-4350 or 303-972-8680

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