Scientists study new options for solar power

Scripps Howard News Service Josh Mark had always wanted On the Web

For a list of incentive prowww.greenla.com www.bpsolar.com

solar panels on his home.
They don't pollute. They take

power plant's flames. some coal or natural gas from the tric bill. And, as Mark says, it rescues some pressure off the monthly elec-

works for Fox Broadcasting in Holly-wood. "They've all been this takeit's a little overboard." thing that costs a ton of money and your-whole-house-off-the-grid type But while surfing the Internet in

there hadn't been any real main-stream system," said Mark, who

"I've been looking for years and

find one to fit his suburban Los Ange

The only problem: he couldn't

those watts to California's electric power from people's roofs and send save" solar kits that would generate just announced a new line of "Earth-September, serendipity led Mark to the Web page of Siemens Solar, a lines. Mark's house could actually right up the road in Camarillo. It had German company with a factory make a bit of power for the state. The timing was perfect.

gram offered by his utility company, the Los Angeles Department of Water uation and a generous rebate pro-With California's dicey power sit-

Los Angeles Department of Water one of the smaller systems. And the on a one-kilowatt system — which is

of solar energy. While it doesn't sound like much, it would save \$3,000 neighbors — wanted to catch a little and Power, Mark — and hundreds of sunshine for about half the cost. The state will pay \$3 for every watt

> \$10,000 one-kilowatt system. ebate, which paid for \$5,600 of their www.dcs.ncsu.edu/solar/dsire/ grams in your area: www.siemenssolar.com

expects his investment will slice his first electricity bill since his meter Though he hasn't received his running backward,

nia and Virginia, continue to work on Maryland and with offices in Californew technologies that can cram Solar and BP Solar, headquartered in tricity. So companies like Siemens three or four kilowatts for all its elecbill by at least a third. A typical home needs about

just began selling thin-film solar pan-els, which look like reflective black er and cheaper panels. more powerful solar cells into small Both companies, for instance

office buildings. And, like Siemens, could replace windows on large cheap, translucent solar panels that cells, but still more expensive now. glass. They're slightly more efficient than panels with individual solar roofs in the next few years. BP hopes to sell panels for home BP engineers also are developing

about 252 megawatts last year, globally. That's about a quarter of what The entire industry only spun out

one mid-sized natural

gas

plant churns out.

countries like Japan and Germany about 30 percent over the last five enjoyed steep increases in sales years — most interest comes from accounting for less than 1 percent or industry has yet to come of age — Albertson said. years worth of power right away, But because the 30-year-old

U.S. energy consumption — some

Ignacle Corral, an engineer at Siemens Solar Industries in Camarillo, admires a new set of thin-film solar panels fresh off the assembly line. The 2-foot-by-5-foot panels look like reflective black glass and can churn out 100 watts of electricity. SCRIPPS HOWARD NEWS SERVICE PHOTO

efficient and inexpensive paneis, en embrace the concept. It didn't help born out of the U.S. energy crisis of the 1970s, Americans have been slow to ergy prices had plunged back down. that by the time researchers developed For much of the '80s, the solar

We just cannot get solar power

porate investments waned. ed with hard-core conservationists Interest, money for research and coriving on remote mountaintops "alternative energy source" associatindustry couldn't shake labels of "Now people are asking for 25

coal and natural gas."

Others who have watched the

compete with cheaper fossil fuels like Institute, a free-market think tank in Washington. "It's because they can't from the Competitive Enterprise said Chris Horner, a policy analyst to market without tons of subsidies,"

solar sector evolve are more opti-

ter opportunity for solar to shine in analyst, said he has never seen a bet-Bob Johnson, a solar marketing

help you regain your control over your energy future," Johnson said. his 24 years in the business. "This is a technology that car

And that's a key point, particularly

still are skeptical about whether solar for people getting into the upper echelon of their lives. When I retire, I

County, the Marks are the third family has opened a plant in Los Angeles were made in the Los Angeles area. ing to pay \$5 a watt if the solar panels and Power went a step turther, offer-

ernment subsidies are common. where energy is expensive and gov-

Even though the industry was

Now that Siemens Solar Industries

in the area to take advantage of the

will ever become a legitimate energy want some certainty as to my energy costs of my home."