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Customers for SunRun's PPA must make a pre-payment to buy down their rate for power, which typically comes to 18 years worth of power at US \$0.135 per kilowatt-hour (kWh), or between US \$8,000-\$12,000, approximately 30% of the usual system cost, says SunRun co-founder and president Nat Kreamer. He adds, however, that customers can get SunRun "for as little as a US \$2,000 pre-payment for electricity." (See related press release.)

In contrast, Solar City customers pay little or no upfront charge for the SolarLease.

The two approaches also differ in their monthly payment practices. A SunRun PPA monthly payment varies each month based on the production of the system, whereas the SolarLease payment does not change month to month, but increases 3.9% per year. The SolarLease monthly payment comprises the panel lease charge plus the lower electricity bill, and typically comes out to a savings of approximately US \$10 per month.

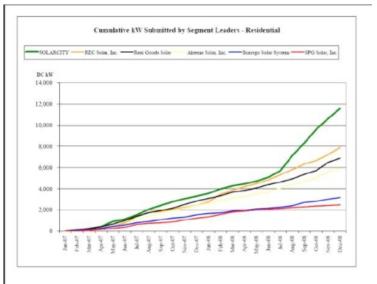
At the time of sale, both Solar City and SunRun calculate what the system should produce. If the system over produces, both companies sell power back to the utility. In both cases, if a system under produces, the firm refunds the shortfall to the customer.

"SunRun's interests are actually more aligned with the customer's than are a typical solar lease program," says SunRun's Kreamer. "With a lease, the customer is paying for the panels no matter how they perform or how much energy they generate. With SunRun, a customer only pays for the power the panels produce, and if the panels don't meet the output guarantee, SunRun will refund the customer's electricity bill payment. SunRun only makes money if the customer gets his or her power, which is a much better deal for homeowners than a fixed-rate lease."

Kreamer's argument makes sense, but recent California Solar Initiative figures (see chart, below) for cumulative residential sales of the state's top 6 solar integrators indicate that the SolarLease (the green line) is attracting bigger numbers of residential solar customers than is SunRun's PPA.

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All residential sales have continued to climb since spring of 2007, but none more steeply than Solar City's. Since July 2008, about 3 months after it introduced the SolarLease, Solar City's growth curve went practically perpendicular. "July is always our number one month for sales. But this year, to date, year to year, we were up 300%, and July alone was up 600-700% year to year," says Lyndon Rive, Solar City CEO.

And Solar City's steep growth continued through the final months of 2008, as the economy tanked. "October customer numbers were higher than September. We were surprised because the winter months are slower than the summer months. Combined with the economic collapse, one would expect our solar sales to decrease

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dramatically," says Rive.

Adoption in November and December for Solar City was lower month to month, but December was nonetheless up 300% over December 2007, he added. "In difficult financial times our customers look for ways to save money. With SolarLease they save money from day one with no investment, so this is an easy decision. If you give people the option of clean power and dirty power and to pay less for clean, they will choose clean," Rive says.

SunRun's offering has also done well, though the company would not provide exact figures. REC Solar, which serves as SunRun's installer, had the second-steepest growth after Solar City, while Borrego's is more modest. "SunRun allows customers to lock into a low, FIXED electricity rate for eighteen years. This is probably the most attractive feature for people worried about the rising prices of gas and oil," says Kreamer.

SunRun's offering was attractive enough to entice US Bancorp Community Development Corp. (USBCDC) to step up as an investor in November, well after it seemed that no one had any more appetite for the solar investment tax credit.

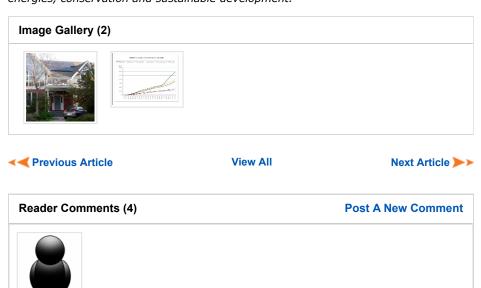
"There was a consideration of whether or not we wanted to participate in SunRun, as it did require a sizeable down payment. But our experience with SunRun is most excellent, they really know what they are doing. They are willing to work with people to get around the full amount," says Matt Philpott, vice president of new markets and renewable investments. "We don't have a preference for residential leasing, we are interested in commercial as well. I don't think we have any more residential programs in the works, but we are open to more."

The elimination of the US \$2,000 cap on the tax credit for residential solar systems on January 1 has given an extra boost to traditional sales, says Jon Guice, head of research for AltaTerra.

"All residential is doing well. Installers all over the country are reporting a big backlog, due primarily to the elimination of the US \$2,000 cap."

But the interest in leasing and PPA continues. Solar City's Rive says that before the tax credit cap was eliminated, Solar City's business was 90%-95% SolarLease, and now it is 80%-85%, as cash sales are doing better. "The Lease is just as attractive as it was before, but cash purchases are more attractive in 2009 than in 2008, so we are seeing an uptick in interest because we have the full 30% tax credit," he says.

Marsha Johnston is a freelance writer based in California specializing in renewable energies, conservation and sustainable development.



earl-allen-boek-166178

January 21, 2009

I have to agree with the poster above...any large centrally located solar project would skew the numbers alright. However, I would expect Solar City to have larger profit margins, due to their lease program, as KW does not always tell the entire story..

Still, these boys, as good as they are...still do not rise to the level of the thermal solar numbers of the early eighties...where I expect the the numbers

to be in the 300,000 systems sold, over about 5 years...

Put another way, they still have a lot to learn...Point is well taken on the fact that REC and Borrego both use Sun Run for installs...still some of the comments are sour grapes...they intend to get the job done...I look for some new players entering the market and the graph, even with Solar City doing the graph's, these new players, who stayed at the sidelines, remember what happened in the eighties and nineties, we now make their

numbers known, now that the Fed credits have been extended and increased..not to worry though, plenty for all GOOD MARKETERS...Smile.

americanenergy@frontiernet.net Al Boek, Founder Creating NegaWatts...Since 1981

Comment 1 of 4



john-harlan-81273

January 21, 2009

If this article is correct, there is an economic imperative to to convert to PV, and the success really is just dependent on effective marketing. The Obama administration will likely be friendly to other incentives as well.

Comment 2 of 4



alex-kelley-155377

January 21, 2009

PPAs are one way to grow residential PV but what about areas not suitable for this sort of plan (cheap electricity, no government incentives, no feed-in tariff, etc.) Even more troubling is that solar water heating has a better bang for the buck yet PPAs won't work with those. If the fed is going to throw money at infrastructure, a small scale renewable energy loan program would make the most sense. Lend the money to people willing to install a system; they then have to pay the money back with interest over time. People get the clean, local energy of their choosing without having to front 10's of thousands of dollars. The government makes a modest return, essentially passes a climate change mitigation bill, and doesn't have to maintain any equipment (the system owners will want to maximize production for a return on their money). Government tax credits inflate the cost of all solar and favors PV over wind, solar thermal, and geothermal--this makes no sense at all. The tax credits do nothing for most people anyways since they are still left with a huge upfront cost for the installation. Now that we are nationalizing banks, it seems that Uncle Sam is in the lending business anyways. Secured RE loans are a win for the nation, individuals, and the environment. (http://www.solar-werks.com)

Comment 3 of 4



earl-allen-boek-166178

January 28, 2009

Alex...why won't PPAs work with PV/Thermal systems...I don't understand your comment?

I do however, agree 100% with your comments on more bang for the buck using Thermal..no doubt about it, in fact every PV install should take conservation and thermal generation into consideration...before ever

their PV/Wind...we sure in hell are going too.

Al Boek, Founder

American Energy Conservation Group

Comment 4 of 4

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