Increase Value of Solar Power Generation by Up to 13%? How?

In geographical areas where seasonal snowfall occurs, the value of total annual solar electricity generation of kWh could increase up to 13% (after deduction for cleaning energy consumed) over 'legacy' solar panels that do not have the benefit of a newly-patented invention that might deliver Billions of Dollars worth of incremental value of electricity generated for our world. How???

Wasted Sunlight ...

It would be nice to flip a switch and heat your <u>entire</u> solar power array to melt all the frost or snow that has accumulated on your solar panels. The problem is, doing it that way is inefficient because you end up using <u>more</u> electricity melting than you generate.

snow on solar panels



frost & snow

frost & snow

But ... what if you could melt that frost & snow ... starting with just one or two panels ... and then use the power generated by the newly-cleaned solar panels to incrementally and sequentially melt the frost & snow that covers the other panels?

Cleaning Large Solar Farms ...

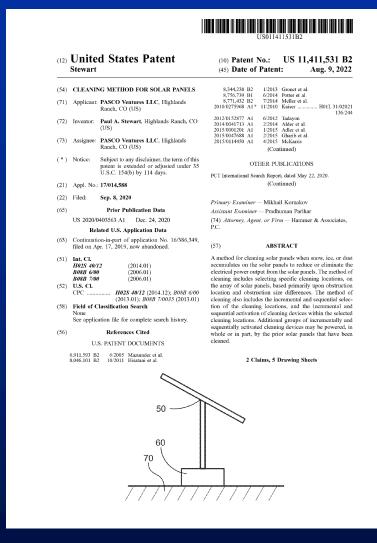
Snow and frost are not the only issues that reduce power generation of solar panels; dust and sand are also problems on large solar farms that can have *thousands* of solar panels.



Dust reduces efficiency of solar panels



US Patent 11,411,531 (titled *Cleaning Method for Solar Panels*) Issued 09-August-2022



Also referred to as the Solar Panel Cleaning Invention ... or "SPCI".

Meet Paul A. Stewart, SPCI inventor, skiing with his wife at Telluride ...



"I was often frustrated after we had heavy frost or snowfall in our Denver-area neighborhood because our solar panels would remain covered for 1-5 days afterwards, and no electricity was produced by our solar power system during those clear-sky 'bluebird' days that often follow heavy frost or snowstorms.

While riding on a ski lift with my wife at Telluride, I had an epiphany while looking down at all the snow-covered roofs below us. You <u>don't</u> have to heat your <u>entire</u> solar array to melt the snow or frost that has accumulated – you just need to melt the snow from just <u>one or two</u> panels, then use the power generated from the newly-cleaned panels to <u>incrementally</u> and <u>sequentially</u> clean the <u>other</u> solar panels!"

'Bluebird' Days Often Follow Snow

Snowstorms are frequently followed by one or more 'bluebird' days of <u>cloudless skies</u> and <u>intense sunlight that today goes</u> <u>wasted</u> because snow still covers the solar panels and prevents them from generating power until temperatures rise and the snow melts.

That just changed! When using SPCI in geographic areas where heavy frost or snow occasionally covers solar panels, the value of total annual solar electricity production of kWh could increase up to 13% (after deduction for cleaning energy consumed) over 'legacy' solar panels that do not have the benefit of SPCI, potentially delivering Billions of Dollars worth of incremental value of solar electricity generated for our world.

This Patent Can Still Be Beneficial in Extremely-Snowy Areas

Some places in the world have too much annual snowfall to make it possible for SPCI to generate *incrementally*-more electricity.

Even so, homeowners, commercial building owners and ski resort owners in heavy snowfall areas may still elect to purchase and install SPCI because it is more convenient and safer for the people who physically shovel or rake snow off those roofs.



Identifying Future Infringers Will Be Straightforward

The SPCI inventor comments:

"I firmly believe this will become a preferred embodiment in everything from residential solar installations to giant solar farms around the world. With various companies that now do high-resolution overhead digital comparative imaging, identifying any future infringers down to the *per-panel* level will be relatively straightforward. Since my patent is a broad method patent, whether the obstruction is snow, ice, frost, dust, pollen, sand or other similar obstruction, whatever device or mechanism uses my incremental and sequential cleaning method that generates more value of electricity will all be covered by my patent."

If your firm is interested in licensing or acquiring SPCI, please contact ...

Paul A. Stewart at PASCO Ventures LLC, Denver, CO pas@pascoventures.com

To prioritize our response to you, please put the following words in the subject line of your email:

"SPCI / Solar Panel Cleaning Invention"