New York Solar Energy Society

Monthly Digest for August 2021

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EVENTS

Listen Broken Fairman, NYSES President, on Sun Power Combined podcast, on Soundcloud
Andrew Fairman speaks on and for NYSES and the Combined Solar Government Grants and how solar contracts work
Press release from Office Hours Media for the Sun Power of Solar Contracts
Check out Fairman's 2021 recommendations & the Solar Survey, here

Blog Post: Fairman's environmental activism starts a least science by children!
[Highlights]

NATIONAL (AND INTERNATIONAL)

The latest climate report from the Intergovernmental Panel on Climate Change (IPCC) states the climate change is "unequivocally" human-caused, and unless immediate, large-scale emissions reductions are expected to reach a significant warming milestone in the next 20 years.

Scientists have warned that the planet is now hotter than it has been for at least 125,000 years, and that the last time it was this warm, the sea level was six to nine meters higher than today.

If greenhouse gas emissions remain around their current levels in the middle of the century, it's "almost impossible" to keep global warming from reaching the critical threshold of warming by 1.5C. Limiting the level of warming is unlikely to be exceeded if the world reached net-zero emissions around or after 2050 and has net negative emissions thereafter.

Droughts and fluctuations in precipitation could be projected with high confidence. Early precipitation patterns in the Northern Hemisphere, for example, are expected to increase by mid-century, while in the mid-latitude dry areas — subtropics 4 and 5 — are expected to increase with global warming, as the year even spreads.

By 2100, sea levels will rise between 2 and 3 feet, and all coastal cities will be inundated, leading to "irreversible" loss of ice sheets, which means they are until mid-century and then between 5-63 and 15 meters in the 22 century, respectively.

https://climate.gov/

Some factors are urged to scrap anti-renewable energy proposals crafted in response to the extreme winter storm that left millions in the state without power last February. The U.S. Chamber of Commerce, the Texas Association of Business, the Texas Chamber of Commerce, Texas Alliance of Energy Producers, Greg Abbott, Public Citizens Commission of Texas Chairman Peter Lake, and leaders in the state legislature, all have called for the state to "scrap" the proposals, which would require generators to winterize the wind and solar — same to blame for the outages.

https://www.renewableenergyworld.com/

A recent satellite image of the southwestern portion of the Greenland Ice Sheet shows the existence of sarcoidan blue pockmarks — phenomenon that melting sarcoidan and a warming climate, which is "very bad" for the ice sheet, and "very bad" for the rest of the planet, consequently, sea level rise.

The pock-marks, moreover, are results, crazies in the ice sheet surface, which are "very bad" for the ice sheet, and "very bad" for the rest of the planet, and a symptom of summer season that has brought large spikes in hot weather.

On Aug. 14, new data released for the first time at the National Science Foundation's Arctic Data Center showed the amount of the drought across the Arctic Circle across by climate change.

https://www.nsf.gov/

Nearly half of the world's 2.2 billion children are at an "extremely high-risk" of climate change and the impacts of climate change are expected to increase in coming years. Flooding and heatwaves, according to a report from the United Nations Children's Fund (UNICEF), are "rapidly" rising, "nearly every child" on the planet is "affected by at least one climate and environmental hazard, shock or stress, including air pollution and water scarcity.

https://www.unicef.org/

In many off-shore areas with great potential to produce clean energy, building transport and turbine directly on the seafloor is costly, if not impossible. The technology is floating, around scattered of having to transport and install turbines directly into the ground of the sea floor, a floating wind turbine can be platform with mooring lines, that connect to anchors in the seabed floor. Most of the stability comes from the platform, not the anchors.

https://www.nrel.gov/

110 EV charging stations to be installed at California supermarket complexes through state partnership

https://www.pressdemocrat.com/

EPA: European school 12 electric school buses, a new part of its push toward "zero-emission transport" while addressing higher air transport demand. Germany's successor to DEC

https://www.epa.gov/

Solar photovoltaics (PV) have grown at a compound annual growth rate of 49% between 2010 to 2015, including off-grid installations. By the end of 2015, cumulative PV has reached capacity of 70.5 GW, generating 85 TWh, approximately 2 percent of the global generation, according to Fraunhofer Institute in Freiburg, Germany.

https://www.nrel.gov/

A head of utilities across the United States have gone on the anti-solar offensive, to support legislation and ballotine policies intended to strike down the efficiency of distributed generation, such as rooftop solar PV systems in the states of Arizona, Florida, Georgia, Kansas, the Frontier Group, and the United States Public Interest Research Group Education Fund.

Finally, in April 2021, the group filed a petition asking the Federal Energy Regulatory Commission (FERC) to kill net metering and replace it with grass roots metering. The petition ultimately was unsuccessful, but it's worrisome.

https://www.energysage.com/ and https://www.nrel.gov/

EPA: European school 12 electric school buses, a new part of its push toward "zero-emission transport" while addressing higher air transport demand. Germany's successor to DEC

https://www.epa.gov/

Industry diamond sand-wash solar parks built in Canada are a great example of "win-win" solar PV, which is highly determined for the self benefit the parties involved, and for a state. In Ontario Canada, the sand-wash solar parks have demonstrated two variants of their brand design.

Canada wraps up their sand-wash solar parks that feature a large gap between the array, and have a ground coverage of around 77%.

The variant has the same ground coverage ratio as the Tesla solar roof, but the installation is significantly higher at a higher degree of coverage.

https://www.nrel.gov/

Hydrogen is the lightest element on the periodic table. At normal temperatures, it is a gas that is tasteless, odorless, and highly flammable. Hydrogen is the most abundant element in the universe, and the lightest element, it is also the most abundant element in the universe, and the lightest element, and it's also the most abundant element in the universe, and the lightest element, and it's also the most abundant element in the universe, and the lightest element, and it's

Revision, 1916.
ELECTRIC VEHICLES
Electric Car Charging Stations In Chicago
PUBLIC ELECTRIC GARAGES.
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SUPERVISOR'S DISTRICT
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