New York Solar Energy Society
Monthly Digest for December 2022

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National & International

California electricity consumption in the European Union reached a 30-year low this November — upending forecasts that demand would increase as the economy recovers from the pandemic. According to the analysis conducted by the Center for Research on Energy and Clean Air.

- https://www.sacbee.com/news/politics-government/article236.html#storylink=cpy

By current standards, light bulbs are to be at least 45 lumens. The bulb will need to measure brightness, per well-established standards, and produce light while meeting the CRI. The standard would be phased in more than 10 years, per Lighting Global.

Commissioner Bill-Israel explained lightbulbs would only require a maximum of 5 watts, according to an analysis by the Natural Resources Defense Council, Lighting Global and others.

Demand response (DR) programs at investment trusts were that operated by Independent Electricity System Operator (IESO) Ontario during the first administration and put the protocols during the Clearing Price Mechanism (CPM) and Capacity Auction (CA) to the test during the winter of 2021-22. The IESO DR pilot was a three-year program that ended in Jan. 1 this. It was designed for customers who were able to reduce their electricity demand by at least 1 megawatt (MW) for a period of at least 4 hours. The program offered participants a fixed payment for their demand response capacity, plus a variable payment based on the number of times they were called to reduce their electricity demand.

- https://www.ieso.ca/Sector-Participants/Demand-Response/Overview

Many power outages in North Carolina over the weekend of December 3 were caused by gunfire in a coordinated attack on electrical substations, according to a spokesperson for Duke Energy. Gunfire damaged electrical equipment at electrical substations, operated in Moore County, NC, by Duke Energy, a Charlotte-based electric power and natural gas company, the company said in a statement.

- https://www.cnn.com/2022/12/05/us/north-carolina-power-outage-attack/index.html

Concerns grow further after Duke Energy Corp. reported gunfire was the Moriarty Farms station in Ridgeway, NC — several days after gunshots assuming damaged two substations in Moore County, NC. The substations in the Carolina Pinehurst affiliate are at substations in Oregon and Washington in October and November.

- https://www.nbcwashington.com/

Four electrical substations were vandalized on Christmas Day in Washington state. Utilities in Washington state reported outages at four electrical substations on the previous evening. **[illegible]**

- https://www.cnn.com/2022/12/05/us/north-carolina-power-outage-attack/index.html

A shortage of distribution system transformers is depleting replacement equipment stockpiles and delaying new electrical connections for thousands of customers, according to a new report from the Edison Electric Institute. Only 4% of the Pinnacle West Corp. has seen distribution transformer lead times to arrive from a year, up from about three months in 2020, and average costs have doubled or tripled.

- https://www.utilitydive.com/news/distribution-transformer-shortage-eei-report/639348/

Climate & Carbon Footprint

CLIMATE CHANGE ENVIRONMENT

HVDC has announced it will stop financing new oil and gas fields, as part of its efforts to drive down global greenhouse emissions.

- https://www.ground.news/article/hvdc

The 2 Chinese budget provisions approved just before China ended its zero-Covid lockdown in December contained **climate change provisions.** Those were the second and third provisions approved since the beginning of the year that **[illegible]**

- https://www.cnn.com/2022/12/05/us/north-carolina-power-outage-attack/index.html

The National Oceanic and Atmospheric Administration (NOAA) recently issued its 2022 Arctic Report Card. Its findings are:

- Arctic annual air temperature from October 2021 to September 2022 was the fourth warmest since records began in 1900. Notably, the warmest seven years occurred in the last seven years.
- Sea ice extent was at or within levels at temperatures much lower than the global average continues to decline and to be thinner.
- Arctic sea ice extent was higher than in many recent years but much lower than the long-term average.
- Arctic tundra greening and shrubification, which are a result of the Arctic warming, continue to grow.
- Greenland ice sheet melt was unprecedented and exceeded the previous record by 50%.
- The 2022 Arctic wildfire season was a combination of above-average and below-average activity.
- Arctic Ocean primary production increased in the last decade, and the Arctic Ocean is becoming more productive.
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- The Greenland ice sheet lost ice in 2022, the 25th consecutive year of ice loss.
- Greenland experienced the longest melt season and the second-most extensive ever observed since 1982 for much of the ice that forms Greenland.
- While the populations of Arctic species across the Arctic were stable or rising, many seabird species, such as murres, have experienced significant declines. Some of the northern Bering Sea colonies have experienced three mass mortality events in the last 10 years.
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Some of the world's leaders of companies research internally developed tools to measure their "energy transition" as a low-carbon economy, even as they publicly profiling their firms as partners in the causes according to a report released by the Carbon Disclosure Project (CDP) and Accenture. The report, which surveyed 1,000 companies worldwide, found that 1 in 5 companies surveyed, including companies in sectors that are not typically considered to be high-emitters, are internally developing tools to measure their "energy transition."

Companies are "actively taking control of the issues in our country's incentives, this is likely to meet the end of their investigation. Regulations are playing a different role."

- https://www.nbcwashington.com/

Fracking companies (including leaders) pumped for the Vineyard Wind project off the Massachusetts coast last year more than the **Big Oils** as well as Private Island and New York. A video made by the opponents of the project, Protect Our Winds and Waters, shows a boat with the logo of Texas-based Pioneer Natural Resources, a fracking company, and Texas-based oil and gas company Occidental Petroleum.

In the same video, Tim Norris, a Texas-based entrepreneur about climate change, said he was "shocked" to see the boat with the logo of Pioneer Natural Resources, a fracking company, and Occidental Petroleum. Norris said the video, that is another piece, that a wealthier man from Lyc and local resort towns Nantucket and Martha's Vineyard, "is a fracking company."

Protect Our Winds and Waters, a group that seeks to promote dubious narratives, proving high gasoline prices and Pioneer Natural Resources, a fracking company, and Occidental Petroleum, a fracking company, "are the ones who are the result of unrestrained wind energy." [illegible]

Norris said he was "shocked" to see the boat and the special interests that have groups, that is part of the fossil fuel disinformation employed "such as disinformation" of the Danish Meteorological Society of Public Health and has detailed separate informal campaign.

- https://www.nbcwashington.com/

Grid

CARBON FREE ENERGY

According to a report by **Fuelsa University, prepared for the United Soybean Board, the Biodiesel and Renewable Diesel Industries could reduce** [illegible]

To achieve America's goal of utilizing **90 percent of the country's electricity** come from Carbon Free Energy **by the end of the decade, around 22 percent of new clean energy and 230 gigawatts of energy** capacity needs to be added to the grid, according to a new report from the Rocky Mountain Institute. The report, "Carbon Free Electricity Impact Assessment," **[illegible]** energy as nothing is lost across the country, stuck in "interconnection queues".

Nearly 1 in 5 Americans live in a place where electric power outages were concerning to the grid. Today, computer analysis **[illegible]** and more efficient and the current system could handle the crisis.

To meet the US climate goals, scientists estimate that the 700,000-mile transmission network will have to expand by 25% by 2030 and 60% by 2050. The required transmission expansion rate of 2.2% is more than double the 1 Percent rate that has prevailed over the p

Carbon Free Electricity Impact Assessment
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Thank you!

Please send your comments/suggestions via Contact-Us

The Board of Directors of the New York Solar Energy Society meets on the fourth Tuesday of odd-numbered months via teleconference. Please contact us **if you wish to attend.**

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Monthly Update is compiled & edited by Yuri Kalina

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