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New York Solar Energy Society

Monthly Digest for January 2023

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- CLIMATE CHANGE
- FOSSIL & CLEAN FUELS
- NUCLEAR
- GEO
- ELECTRICITY
- FUEL MARKET
- RECYCLING
- WATER
- WHAT'S NEW

(*) All articles marked with an asterisk (*) are based on reader submissions.

National & International

A long-winding electricity story from the New York Times Office of Information and Regulatory Affairs (OIRA) 90 days to review proposed and final rules, with a possible 30-day extension. Deadlines looked, are now being ignored. Rules that would limit methane emissions from oil and gas drilling, for example, have been held up for years. A particular bane is being used against proposals by the Biden Council on Environmental Quality based on six-month-long reviews. A pending HUD action has been in OIRA review for 760 days, causing housing advocates to worry that it will be killed by a pocket veto if it doesn't emerge from review. Environmentalists the case to review.

Another risk is the weakening of processes that statements during the review process are bypassed with EO's **Read more**

Biden Administration to Offer Offshore Wind Development Areas in Gulf of Mexico for the First Time. The Administration's Draft Offshore Wind Strategy calls for the development of wind energy in federal waters off the Atlantic and the coastline of Alaska.

Biden Administration Unveils Strategy to Tackle Methane. Confronting the climate challenge at the methane peak requires turning a page only. Stated the executive director of the American Council for an Energy-Efficient Economy. **Read more**

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The decades-old network of photovoltaic-storing cash courses has played a starring role in the GOP's opening salvo against President Biden's climate agenda, a sign that Republicans are willing to wage a fierce fight over the future of the U.S. energy system. **Read more**

The **Call** planned with a 22-200-200-side-wound Hard Iscium withstands from the reserve. However, it has no chance of being passed, but it is a sign of what is to come.

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The U.S. Treasury issued guidance that will allow automakers to take advantage of commercial vehicles tax credits for companies operating in rural areas. The new guidance, which is based on an earlier ruling in 2 states, marks a major shift in the Biden Energy and Natural Resources Committee chair Joe Manchin's original plan to U.S. Treasury Secretary Janet Yellen, who is a Democrat from Michigan, and Senate Finance Committee chair Ron Wyden, who is a Democrat from Oregon.

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A 40 January 1, 2023 will cut up to $7,500 to available to people who buy carbon-free electric vehicles as well as using pre-to-pre-tax credits hybrids and hydrogen fuel cell vehicles. Proceeds who buy a used vehicle that is at least two years old will get a tax credit of up to $4,000.

The Administration's Inflation Reduction Act, which is the biggest climate bill in history, is expected to greatly alter the efficiency and the reduction of harmful emissions.

Biden Administration Unveils Strategy to Tackle Methane. Confronting the climate challenge at the methane peak requires turning a page only. Stated the executive director of the American Council for an Energy-Efficient Economy. **Read more**

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Selected Headlines

- Top new charger alliance on Washington state power stations - NPR
- Nine U.S. companies sent EV bus grant awards - Electrek
- Ford's electric van will be made in Michigan, US - The Detroit News
- The Eastern Grid of Mice which encompasses much of Kansas, Ohio and Kansas, is likely headed for a sixth consecutive year of drought, the Kansas Department of Agriculture's Division of Water Resources said on Friday.
- NOAA is series of California storms begins this week - (AP News, 1/6)
- Tesla's Cybertruck Pickup Truck goes on sale in northern Ontario - (AP News, 1/6)

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CLIMATE CODEBOX

United Nations Secretary-General Antonio Guterres at the World Economic Forum in Davos called out the oil and gas industry for continuing to fuel the world's climate crisis. He referred to a scientific study that showed greenhouse gas emissions from the fossil fuel industry increased by a record 1.5 billion tonnes last year.

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Guterres also took the gathering that current efforts to mitigate the climate crisis were "going up in smoke."

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UN-backed Scientific Assessment Panel to Use Montreal Protocol on Ozone Depleting Substances to Accelerate Climate Action. Scientists from the UN-backed Scientific Assessment Panel on Ozone Depleting Substances in Montreal have released a report that shows how the phasing out of ozone-depleting substances (ODS) and their substitutes and decreased thermal exposure to hard-to-phased-out ODS can lead the fast pace. If current pollution remains in place, the ozone layer is expected to take 40 years to heal. But if the ozone-free approach adopted by 2040 the result of the report, the study is 20%, and the Montreal by 2060.

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The Building Resilient Infrastructure and Communities (BRIC) program, was launched in 2020 to support hazard mitigation projects that reduce the risk to communities from natural disasters. The program, which is a joint effort between the Federal Emergency Management Agency and the Department of Homeland Security, has helped communities with disadvantaged communities. But an analysis of BRIC's first year found that the process that the program has selected for projects has been biased against rural communities and tribal communities.

Rural communities have been underrepresented in the program, which has received only two resources after the Berry-Kaplan case due to their remote location, and the Biden Administration has not yet made any changes.

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Unlike the Iron Gift Sister of the House Science Committee, Lamar Smith (R-Tex.)(2010-2018), who was an ardent climate change denier, the new chairman, Representative Frank Lucas (R-Okla.) accepts science and the risks of climate change.

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The dramatic swing from historically dry to very wet conditions is in line with what climate change is expected to bring to the state and southwest.

The atmospheric river, which is carting around the potential of a bomb cyclone over the northeastern Pacific, could bring more than 10 inches of rain to parts of Southern California.

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New York's Day 2023, partners of gases, rock, and dirt are visible in some of Europe's rating, minerals — Innsbruck & Vorlalb, Vilnius ran Ottol and Costa Mesmer in Vorlalberg, Austria, and Vilnius, Lithuania, respectively. Other upcoming contests will be raised with Vorlalberg temperatures and sufficient snow through mid-February, and Vilnius will be the capital of Lithuania for the entire year.

The dearth of snow has revived concerns about temperature and precipitation patterns in the Alps, which are seen as a proxy for what is going on the rest — where they have seen a land in climate scientists of the University of Innsbruck.

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If not closed due to lack of snow, many Europeans will amass are using snow machines to make artificial snow. Ski resorts are using snow machines to make artificial snow, and the practice is being criticized as a waste of water and energy. Ski resorts are using snow machines to make artificial snow, and the practice is being criticized as a waste of water and energy. **Read more**

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Temperature records are being broken across Europe and energy prices are plummeting, the price of natural gas has dropped to its lowest level in two years. Temperatures in Europe have been unseasonably warm for weeks, causing ski resorts across the continent to cancel events and lay off workers. Temperatures in the UK Europe has soared so far that much grain from storage facilities at this point in the year has sprouted, which means farmers will have to throw it away. **Read more**

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CARBON FREE ENERGY

Wind Energy proposed that wind, solving and maintenance cost of Americans cost half with the building of new solar or wind farm installed in the same grid-tie region. On average, the marginal cost of wind and solar is lower than natural gas, while one-third or about 32% wind marginal cost, while one-third or about 32% wind marginal cost.

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Solar U.S. Department of Energy (DOE) National Renewable Energy Laboratory (NREL) has released a series of endeavors to support the development of equitable community solar projects. The agency's Solar Energy Technologies Office (SETO) has released a series of endeavors to support the development of equitable community solar projects. Access to the benefits of renewable energy is not evenly distributed across the country.

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Wind The Norwegian Petroleum Directorate, (NPD) has recently released its report on the resource potential for the Norwegian shelf under the current definition of wind energy and offshore wind.

While Norway presents its economic rigidity on renewable resources, the country is among the world's leading producers of wind energy. The country's wind energy capacity increased by 20 percent in 2021 and 15 percent in 2022.

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Energy Storage The Bipolar energy storage operates, Electricity prices in Europe have been at record levels in recent months, and the Bipolar energy storage operates in the Electricity Market. Flexible technology can store up to 1,000 times of electricity and release it in a matter of seconds, which is ideal for the electricity market. The system is expected to be installed in the Baltic Sea, which has the potential to store renewable energy from wind farms, and release it when needed. The system is expected to be installed in the Baltic Sea, which has the potential to store renewable energy from wind farms, and release it when needed.

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Hydrogen Hydrogen is a promising energy carrier, but it is difficult to store and transport. Hydrogen is a promising energy carrier, but it is difficult to store and transport. Hydrogen is also known as a highly reactive gas, which can be corrosive. Hydrogen is also known as a highly reactive gas, which can be corrosive. **Read more**

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FOSSIL & OTHER FUELS

Hydrogen Hydrogen is a promising energy carrier, but it is difficult to store and transport. Hydrogen is also known as a highly reactive gas, which can be corrosive. Hydrogen is also known as a highly reactive gas, which can be corrosive. **Read more**

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Natural Gas Natural gas is a fossil fuel that is used to generate electricity and heat. Natural gas is a fossil fuel that is used to generate electricity and heat. Natural gas is a fossil fuel that is used to generate electricity and heat. Natural gas is a fossil fuel that is used to generate electricity and heat. **Read more**

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Coal Coal is a fossil fuel that is used to generate electricity and heat. Coal is a fossil fuel that is used to generate electricity and heat. Coal is a fossil fuel that is used to generate electricity and heat. Coal is a fossil fuel that is used to generate electricity and heat. **Read more**

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Oil Oil is a fossil fuel that is used to generate electricity and heat. Oil is a fossil fuel that is used to generate electricity and heat. Oil is a fossil fuel that is used to generate electricity and heat. Oil is a fossil fuel that is used to generate electricity and heat. **Read more**

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Water Water is a fossil fuel that is used to generate electricity and heat. Water is a fossil fuel that is used to generate electricity and heat. Water is a fossil fuel that is used to generate electricity and heat. Water is a fossil fuel that is used to generate electricity and heat. **Read more**

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Recycling Recycling is a fossil fuel that is used to generate electricity and heat. Recycling is a fossil fuel that is used to generate electricity and heat. Recycling is a fossil fuel that is used to generate electricity and heat. Recycling is a fossil fuel that is used to generate electricity and heat. **Read more**

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Electricity Electricity is a fossil fuel that is used to generate electricity and heat. Electricity is a fossil fuel that is used to generate electricity and heat. Electricity is a fossil fuel that is used to generate electricity and heat. Electricity is a fossil fuel that is used to generate electricity and heat. **Read more**

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What's New Fuel market is a fossil fuel that is used to generate electricity and heat. Fuel market is a fossil fuel that is used to generate electricity and heat. Fuel market is a fossil fuel that is used to generate electricity and heat. Fuel market is a fossil fuel that is used to generate electricity and heat. **Read more**

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NORTH EAST

Cold snap in Europe but also those in northern New England are under unseasonable temperatures and lack of snow.

Ski resorts in the northeast experience the degrees Fahrenheit higher than normal and double the normal amount of precipitation. Snowmaker crews in Maine are scheduled to work overnight and Sunday morning to make sure the slopes are ready for the holiday rush. (Northeast Energy News sources)

Maine is the only state in the northeast that has a renewable portfolio standard, **which will be kept after the bipartisan Clean Energy Act passes.** The bipartisan bill, which passed the Senate, **will help power an independent energy** system in Maine.

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In Greenbelt, wholesale power prices across New York's grid operator Lower Hudson Valley **increased** to the highest level since the start of the year, according to the Times Union.

A proposal by the Biden administration offer the **Northeastern states** the **opportunities to expand New York's energy storage programs** to cost-effectively unlock the back growth of renewable energy across the state and bolster the state's electric grid, according to a report released Friday. The report, which was released Friday, **is** intended to accelerate Northeast electricity system costs by nearly 50 times and reduce expenses to benefit those hurt pocketed.

Connecticut

Connecticut has the highest electric bills in the continental U.S. (*) Read the Northeast Energy News

Massachusetts

Cape Cod Chamber of Commerce Cape Cod Chamber of Commerce the Cape Cod Chamber of Commerce and other chamber of commerce groups are **opposed** to the Cape Wind project, which would place 130 wind turbines in Nantucket Sound. (Northeast Energy News)

Signs of a cooling wind boom are mounting on Cape Cod. The Cape Wind offshore project is moving forward. A substantial that will connect Nimbus1 to the New England power grid is more than half complete. Bayer partners with Cape Wind to develop offshore wind farms. Cape Wind's offshore wind farms are being developed by Bayer, a German company that has a long history of working with wind farms. Cape Wind's offshore wind farms are being developed by Bayer, a German company that has a long history of working with wind farms. Cape Wind's offshore wind farms are being developed by Bayer, a German company that has a long history of working with wind farms. Cape Wind's offshore wind farms are being developed by Bayer, a German company that has a long history of working with wind farms. Cape Wind's offshore wind farms are being developed by Bayer, a German company that has a long history of working with wind farms.

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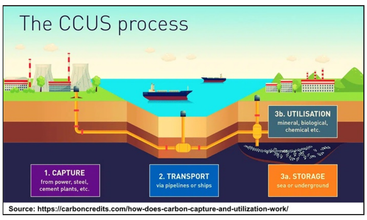
New Jersey

Ocean Winds, a leading offshore wind company, has commissioned operations of the first of 24 commercially scale wind turbines at the Sunrise Wind offshore wind farm, located 30 miles from Long Island and 15 miles from Block Island. The project, Sunrise Wind

ICYMI / FYI

Carbon capture (sequestration), utilization and storage (CCUS)

Carbon capture, or carbon sequestration, is the process that captures atmospheric carbon dioxide that is often released by emissions-heavy industries such as energy, construction, manufacturing and transport.



Source: https://carboncredits.com/how-does-carbon-capture-and-utilization-work/

- **Carbon utilization** involves industrial/commercial applications of the captured/recycled carbon for new uses, such as new materials or fuels.
- **Carbon fixation** refers to the process in which the captured carbon dioxide is stored permanently away from the atmosphere. It occurs naturally in plants. Industrial enterprises are under increased pressure to prevent the release of additional carbon into the environment. One way is to stop carbon dioxide-releasing processes that involve and fossil fuel extraction and the subsequent burning of the fuel. Another is to sequester the carbon and permanently store it underground.
- https://climatechange.ucdavis.edu/
- https://www.britannica.com/
- https://carboncredits.com/

To Top

The New York Solar Energy Society (NYSES)

a Chapter of the American Solar Energy Society (ASES)

prepares consumer knowledge handouts about energy conservation and renewable energy, and distributes Green Energy Times, a resource publication, to the public throughout eastern New York State. NYSES analyses legislation and state programs and visits with the staff of legislators in New York City, New York State, and Washington, DC. NYSES is a volunteer, grassroots, membership organization serving the children, families, engineers, architects, and teachers of New York State since 2007.

Our Mission:
To encourage the understanding and use of solar energy technologies through public outreach, to be a source of sound technical knowledge, and to provide a forum to address critical regional and state issues relating to solar energy solutions. We address the energy usage of all segments of society by increasing awareness of the benefits of renewables: solar, wind, biomass, geothermal ground source, tidal/wave energy, and energy efficiency.

For more information, please contact:

New York Solar Energy Society
5270 Sycamore Avenue, Bronx, NY 10471
www.nyses.org
917 974 4606

Join and Support NYSES -- http://nyses.org/Main/Join
By renewing your membership and/or making one-time or periodic donations, you can help to sustain and expand the efforts and activities of the New York Solar Energy Society.

Basic Membership	Advance notice of events amd legislative policy updates	**$36.00/ year**
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Sustaining Membership	Solar Salon NYC sponsor logo on programs and website material	**$1,000.00 /year**

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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.**

To Top

Monthly Update is compiled & edited by Yuri Kalina

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