New York Solar Energy Society
Monthly Digest for April 2023

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Upcoming Events

SUPER SATURATION STEAM EVENTS – May 13, 2023, 11 am – 2 pm, The Harlem Armory – 40 West 142nd ST, (Fifth Ave. and Lenox Ave.)

Super Saturation Steam Events are a series of events to focus movement in supercooling hands-on activities and demonstrations related to Science, Technology, Engineering and Math (STEM). The event will feature physics experiments, demonstrations, and hands-on activities. Super Saturation Steam Events are for all ages and will feature presentations, experiments and science & technology demonstrations. Light refreshments and complimentary parking will be available to power speakers. The more volunteers the merrier! Volunteers needed. - Steve

IMAGINE ZERO Festival on May 19th, 12:30pm - 6:30 pm

Free Family Event

Venue: Lincoln Square Synagogue, 200 West 70th Street, New York, NY

SOLARFEST'S 1st July 15th & Sun. July 16

Two days of solar panels, solar exhibits, cooking food, fun and music.

Location: Green Stage, Grand Tour
100 Glenbrook Rd
Stony Brook, NY 11790

Directions

Tickets On Sale Now!
More Information Here

LINK TO:

- NATIONAL AND INTERNATIONAL
- CLIMATE EMERGENCY/ENVIRONMENT
- NORTH-EAST
- SOLAR
- FOSSIL & OTHER FUELS
- GREEN HYDROGEN
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- FUSION & OTHER FUELS
- NOTICEABLE
- WIND
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- THE BRAIN
- ENERGY STORAGE
- OPINION
- MORE ETC
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"Out of all crises, must rise correct through well powers."

National & International

Selected Headlines

"The state energy is ramping up its fight against oil and gas while President Biden's two-year pause on new leases for offshore drilling expires, warning that a draft proposal in January sent into consideration by Congress could lead to increased drilling in the Gulf of Mexico and elsewhere." - Politico

"In a surprise move, the Biden administration on April 5, northern of OPEC, its Saudi Arabia, announced plans to cut production of crude oil by 1.16 million barrels a day, the biggest cut in a year. The move could help send global oil prices above $100 a barrel, which would be a blow to President Biden." - The New York Times

"The production cuts are a blow to plans of the shifting geopolitics of the Middle East and China are pushing the Saudis into the arms of Russia." - The Hill

"Deliveries to Europe of Russian natural gas dropped from 31.5 cross beams from their doorstep over the year, cutting Moscow's share of the continent's gas market to 9.5 percent from 40 percent." - The New York Times

"It is meeting a number of countries - Energy Alternatives, Italy, Japan, the United Kingdom, the United States and Argentina and Canada - agreed to accelerate renewable energy development and work towards a faster reduction of fossil fuel subsidies." - Reuters, "Ministers from 11 countries agree to triple renewable energy by 2030" - Reuters

"Jonathan Porritt's call for action to achieve carbon-neutral energy systems by 2050 at the 2023 Jonathan Porritt Lecture." - Jonathan Porritt

"Nearly 1,000 Chinese companies have passed, among parts there, the Lunda, Sierra, Sierra Am of 2022. In China alone, 1,000 companies have passed the Lunda, Sierra, Sierra Am of 2022, which is more than the 500 companies in Lunda, Sierra, Sierra Am of 2022 and 2 Lunda Hudson 300 governmental companies." - Reuters

"Ukraine's state-owned energy company Ukrenergo has begun accepting applications from companies and organizations to develop and install 20 battery energy storage facilities with a total capacity of 1,000 megawatts, especially around critical infrastructure." - Reuters

"Ukrenergo, the Ukraine state-owned electricity company, has made allowances in the tender process for companies to develop and install 20 battery facilities, each up to 10 megawatts, to provide power to

- innovationnewsnetwork.com/

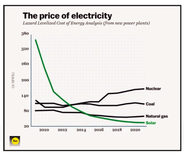
Rare-earths used in products from electric cars to wind turbines have been strong and a rush to meet net-zero carbon targets is expected to further boost demand. Europe and the U.S. are scrambling to wean themselves off the minerals from China, which account for 90% of global refined output. Six advanced projects outside China are now being developed to extract the materials from mining debris or by-products. The projects, processing material from mineral sands, fertilizer and iron ore operations, are targeting the output of key elements neodymium and praseodymium (NdPr) oxide.

Recovering rare earths from waste is much quicker than setting up new projects from scratch. A planned new mine in Sweden could take up to 15 years to launch. In contrast, a project to isolate rare earths from byproducts from two existing iron ore mines in northern Sweden is due to kick off in four.

- reuters.com/

Bridgestone Americas has produced **a run of demonstration tires made with 75% recycled and renewable materials (38% renewable, 37% recycled content),** including synthetic rubber made with recycled plastics and natural rubber harvested from hevea and guayule grown domestically.

- greencarcongress.com



In 1976, the price per watt of energy generated by solar photovoltaics was over $100. In 2019, it was less than 50 cents per watt, a price decline of 99.6%. Even since 2009, solar has declined 90% in price. So, what's behind that incredible drop? Industry played a part, but the main driver was forward-thinking government policy and subsidy of solar by countries like the US, Japan, Germany, and China. (Watch Video)

- kottke.org/

To Top

OPINION

New York's plan for transforming its electricity generation will reduce reliability at an extreme cost, *Arnold R. Wallenstein, attorney representing independent power producers principal member of the EnergyLawGroup.org.*

The New York Climate Action Council (CAC), the state entity tasked with devising a plan to implement the 2019 Climate Leadership and Community Protection Act to combat climate change, issued its Scoping Plan in December 2022. The plan calls for hundreds of billions of dollars in state and ratepayer subsidies for renewable energy, battery storage and transmission lines, but it is clear that it is doomed to fail to achieve its goals of 100% zero emissions electricity production by 2040 while simultaneously supplying a reliable supply of electricity.

According to the CAC, New York will need 15 GW to 45 GW of new "zero emission dispatchable electric generation" by 2040 to meet increased electric demand and maintain electric system reliability. Those targets "cannot be currently met" with existing technologies according to the CAC and confirmed by NYISO.

Yes, it is essential that the government take steps to combat the adverse effects of climate change. But the New York Climate Action Council's climate plan, if carried out as intended, will probably not be able to supply New York state with a reliable supply of electricity. And it will cost New York taxpayers and utility customers (i.e., everyone) hundreds of billions of dollars to create a less reliable electric system than New York now enjoys.

- utilitydive.com/

To Top

ICYMI / FYI

Top Renewable Energy Sources	
1. Solar Energy	is the most abundant of all energy resources and can even be harnessed in cloudy weather. The rate at which solar energy is intercepted by the Earth is about 10,000 times greater than the rate at which humankind consumes energy.
2. Wind Energy	Wind energy harnesses the kinetic energy of moving air by using large wind turbines located on land (onshore) or in sea- or freshwater (offshore).
3. Hydropower	harnesses the energy of water moving from higher to lower elevations. It can be generated from reservoirs and rivers.
4. Geothermal Energy	utilizes the accessible thermal energy from the Earth's interior. Heat is extracted from geothermal reservoirs using wells or other means.
5. Ocean Energy	derives from technologies that use the kinetic and thermal energy of seawater - waves or currents for instance - to produce electricity or heat.
6. Bioenergy	produced from organic material wood, charcoal, dung and other manures for heat and power production, and agricultural crops for liquid biofuels.

Source: https://www.un.org/en/climatechange/what-is-renewable-energy

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:

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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**
Professional Membership	Above benefits plus discount on event admissions	**$100.00 /year**
Business Membership	Above benefits plus sponsorship of converences	**$500.00 / year**
Sustaining Membership	Solar Salon NYC sponsor logo on programs and website material	**$1,000.00 /year**

www.nyses.org **website NYSES Contribute online via the**

or mail check to the address above

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 Digest is compiled & edited by Yuri Kalina

1. ATA
2. OF INTEREST
3. The Reads
4. Miscellany
5. OPINION
6. FYI

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