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# New York Solar Energy
## Monthly Digest for December 2023

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### Upcoming Events

*Renewable Energy Seminar: COP 28 City Climate Campaign and Online*
Tuesday December 12, 2023 12:00 PM - 1:00 PM EST Online Event - Hosted by Climate Interactive's Sciences Research Center, University at Albany, will present the latest and most recent research on energy at COP in Manhattan.

Dr. Richard Dewey discuss applied research and teaches in the fields of carbon taxation, solar energy applications, and daylighting.

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## NATIONAL & INTERNATIONAL

Selected Headlines

The Ohio legislature failed to pass a bill that would exempt contract over the discussion of "controversial beliefs" about climate protests in college classrooms. Senate Bill 83 contains a wide ranging set of rules for public colleges and universities in the state, including a requirement that faculty members be evaluated on their ability to teach students on six core areas, immigration and abortion are discussed. To read opinion and for read the bill, go "Senate Bill83" or "Senate Bill83 Opinion". Cincinnati Enquirer, 12/

Ohio's Republican-controlled legislature has passed a bill that would ban cities from banning natural gas hookups. Although the state's Senate and House have differed on how they would be implemented, the bill would prevent municipalities from banning natural gas hookups in new buildings. Cleveland.com, 12/

An University Hospital plans for the time of year caused demonstrating coastal flooding. United Nation flooding and climate change is causing more and more flooding in the US. Yale Climate Connections, 12/

A group of environmental groups filed a lawsuit against the Biden administration's plans to expand the SPR, saying the decision to prioritize filling the threatening climate pollution to be emitted by the fossil fuel sources of the SPR violates the Endangered Species Act. Reuters, 12/ Bloomberg, 12/ Bloomberg, 12/ Bloomberg

releases itself from the graphite and conductive plastic to charge or discharge.

| + | - |
|---|---|
| • Non-flammable<br>• Flexible in sizing<br>• Low degradation<br>• Zinc is abundant as a raw material.<br>• Can operate within a large temperature range | • Provide up to 12 hours of storage<br>• While can be scaled for a longer duration, there are limits to the size |

**Iron-Air Battery**
The battery uses a process called "reversible rusting." It converts iron metal to rust to discharge and uses an electrical current to convert the rust back to iron to charge.

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|---|---|
| • Safe, inexpensive active components<br>• About one hundred hours of duration<br>• Great reliability resource | • Need for expanded manufacturing |

**Hydrogen Energy Storage**
Renewable energy and electrolyzer systems are used to create green hydrogen, which can then be stored as long as needed until converted back to electricity.

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|---|---|
| • Can use renewable energy and electrolyzer systems to create green hydrogen<br>• Virtually unlimited storage duration | • Challenges in developing supporting infrastructure. |

**Gravity Energy Storage**
With gravity storage, heavy composite blocks are lifted, and energy is stored as potential energy. As the blocks are lowered, the electric generators produce power.

| + | - |
|---|---|
| • Low environmental footprint<br>• Renewable energy for the mechanical process of heavy lifting<br>• No supply chain issues<br>• Can be scaled according to needs<br>• Technology available now<br>• Storage up to 24 hours | • New concept<br>• One 18 MW/36 MWh under development in the U.S |

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*To Top*

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## 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.**

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|---|---|---|
| **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** |

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

**or mail check to the address above**

**Thank you!**

Please send your comments/suggestions via Contact-Us

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**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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