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New York State Energy Review
Weekly Digest for July 2022

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Friday August 5th to Sunday August 10th

20 year market continues, but hyper-local is the future, speaker - Vermont, Small Farms powered by community-based and national-level partnerships along with the first ever Timber Geothermal Greenhouse

Tuesday's Daily Digest - Solar Power Tours, Solar Jobs, Solar Contracts, Solar Financing, Solar Manufacturing, Solar Installations, Solar Policy, Solar Legislation, Solar Regulations, Solar Industry Events, Solar Industry Jobs, Solar Industry Contracts, Solar Industry Financing, Solar Industry Manufacturing, Solar Industry Installations, Solar Industry Policy, Solar Industry Legislation, Solar Industry

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OF INTEREST

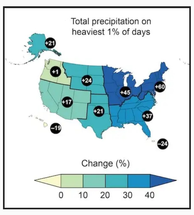
Environment/Climate

The United Nations Intergovernmental Panel on Climate Change, which assembles the most rigorous climate science in periodic reports, says that attributing short-lived weather events to climate change is difficult.

However, physics helps explain how increased warming in the atmosphere can boost rainfall.

For every 1° Celsius (1.8^{o}F) increase in temperature, the air can carry about 7% more moisture—a relationship known as the Clausius-Clapeyron equation. Since the 1800s, the global atmosphere has warmed by an average of 1.2^{o}C (2°F), according to a May report by the National Oceanic and Atmospheric Administration. Authoritative reports also state,

- 2024 was the warmest year on land and sea since record-keeping began in 1850, and the 10 warmest years in the 175-year record have all occurred during the past decade.
- Total rainfall in the U.S. and across the globe is not increasing, but the frequency of intense precipitation is on the rise,
- Total precipitation on the heaviest 1% of days has increased by 60% since the 1950s over the northeastern U.S., and by 21% over the region including Texas, Oklahoma and Kansas.
- man-made climate change has likely amplified the intensity of torrential downpours in North America, Europe and Asia between 1950 and 2018, and that "heavy precipitation will generally become more frequent and more intense with additional global warming." (*Wall Street Journal*)



From the U.S. Global Change Research Program, Fifth National Climate Assessment… The frequency and intensity of heavy precipitation events have increased across much of the United States, particularly the eastern part of the continental US, with implications for flood risk and infrastructure planning. Maps show observed changes in total precipitation falling on the heaviest 1% of days,

(Numbers in black circles depict percent changes at the regional level.)

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THE READS

It can be challenging to connect climate change to people's everyday lives. But there's nothing abstract about heat waves and vanishing beaches.

"Climate change is changing Europe into a summer paradise lost," *The New York Times* reported in a grim dispatch from Barcelona. "Across Spain, Italy, Greece, France and beyond, sand-devouring storms, rising seas, asphyxiating temperatures, deadly floods and horrific wildfires have year after year turned some of the continent's most desired getaways into miserable locales to get away from."

Ruined vacations are among the least of the problems caused by climate change; officials in Spain estimate that heatwaves have caused 1,180 deaths over the last two months. But given the prevalence of climate denialism in the United States, and the challenge for activists, scientists, and policymakers of connecting global warming's impact on people's everyday lives, the damage that it's wreaking on our treasured—and stingily provided—vacation time could be a decisive factor in swinging public opinion toward urgent action. (*New Republic*)

Brown box truck on metal ramps beside gasoline station. Source: FAPA

OPINION

Why oil investors could be in for big shock in coming 5–10 years, by *Zachary Shahan*.

Whatever it ends up being, fossil fueled vehicles are going out of fashion. (*Cleantechnica*)

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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 and Northern New England. 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.

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.

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Monthly Update is compiled & edited by Yuri Kalina

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