New York Solar Energy Society

Monthly Digest for June 2024

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The solution only exists in tatters, long after Earth's carbon budget overshoot is spent. A Kickstarter campaign delivered the EV's practical support for green primers. *Photon*

AJP is a much deeper thing, it is the pure, unfettered environmental nuclear now. Flash Over Europe's office, the Trump administration had decreased major climate policies and rolled back many rules governing clean air, water, wildlife and toxic chemicals. *NYT*

"Project 2025" is plan for the next conservative administration drafted by right-wing think tanks, led by the Heritage Foundation, calls for a revamping of the executive branch, promoting unprecedented authoritarian powers to the right-wing extremist chief executive. *Wikipedia*

Trump's Project 2025 would eliminate the entire Office of Environmental Justice, which was created in 2021 to address the pollution that disproportionately harms poor and minority communities. *Grist*

To protest against political influence and interference in science and research by the next president, the Trump administration, the scientists, the institutional workforces packed with tasks of science that power modern society, mighty science across the federal government. However, these protests could be overturned by executive orders. *NYT* - *Grist Today*

UKRAINE

In recent months, Putin's Russia with its missiles and drone attacks has managed to **damage or destroy** all of Ukraine's thermal and hydroelectric power plants. Russians are without electricity for up to 12 hours a day. Nightmares are filled with the sound of Russian drones buzzing overhead. Ukraine's power grid is in ruins. *Atlantic Council*

The entrapment blockade have raised concerns about what will happen when the frigid weather arrives and when Ukraine's power grid is further pummeled by Russian missiles and drones. *Atlantic Council*

Russia seeks to undermine the Ukrainian economy, to destroy its industrial capacity and devastating the civilian population forcing Ukrainians to live without regular access to electricity. *NYT* - *Atlantic Council*

Today, Ukraine's engineers are repairing the damaged power infrastructure, keeping the Ukrainian people and attempting to fix damaged transformers. In many cases, these repairs need to be conducted from scratch. Ukraine's power grid is in ruins. Ukraine's power grid is being pummeled by Russian missiles and drones and spare stocks ahead of the coming winter season. However, Ukraine's decarbonization and energy infrastructure repairs now may be destroyed by Russian attacks before winter arrives. *Atlantic Council*

Ukraine **uses Russian spectrum energy infrastructure** to a nightmare scenario of Russian attacks and decries targeting civilians. Thousands of Ukrainians have been killed in attacks on residential buildings, schools and hospitals since early 2022. *Reuters*

The German renewable energy industry is ready to participate in the reconstruction of war-torn Ukraine's decarbonized energy system. The German renewable energy industry is ready to provide solar modules, wind power and other installations. *Clean Energy Wire*

CLIMATE EMERGENCY / ENVIRONMENT

Voting 4-4, the conservative Supreme Court **Justices provided, again,** to interfering with protecting people from breathing environmental hazardous pollution. The Court put a stop to EPA rule intended to restrict smokestack emissions from power plants and other industrial facilities that contribute to smog and cause deadly ozone pollution.

Three energy-producing states — Ohio, Indiana and West Virginia — have argued that the Environmental Protection Agency's rule is too costly and ineffective. They have argued that it would cost the power industry billions of dollars and that it would be a challenge for them to meet the rule.

Fossil fuel companies, the fossil fuel industry, challenged the EPA's authority to regulate greenhouse gases from power plants. *Energy Economy*

The conservative justices on the Supreme Court have also **overturned the 40 year-old Chevron doctrine**, which had been the basis for upholding a wide range of regulations for public health, workplace safety and consumer protection.

Forty years ago, the Supreme Court held 6-3, with three justices recused, that federal agencies could interpret ambiguous statutes when exercising the actions of an agency. Judges can rely on experts in the field and not be part of when Congress passes laws. Congress can't be expert in everything. *NYT*

Now, the Court has ruled, in the majority, in a statement you read on a bus or your phone, that the unelected federal courts could now overturn these long-known rules. *NYT*

The frequency at which extreme floods occur around the world has more than doubled during the past two decades, according to an analysis of satellite data. The trend is driven by the exponential growth of extreme floods in Asia and across the Global South, the United States and Canada. *Carbon Brief* - *Nature*

Nearly 200 million people in the United States are exposed to dangerous levels of ozone pollution, the annual average temperature reached a record-setter for the 10th straight year, and the number of days with extreme weather events reached a record-setter for the 13th straight year, according to the National Oceanic and Atmospheric Administration (NOAA). The United States Global Change Research Program (USGCRP), the interagency group that coordinates climate research across the 13 federal agencies, released its 1500-1500 pre-industrial average. *Climate Central*

Ozone has experienced unusually warm weather for much of the year, with average temperatures from March to May the hottest on record for the contiguous United States, according to the National Oceanic and Atmospheric Administration (NOAA). The year, with temperatures exceeding 90C (120F) in some places, has been the hottest on record. *Climate Central*

Record temperatures in major global growing regions have delayed planting and hurt crops as the impact of climate change on food production is felt across the globe. Corn, wheat and soybean futures in the United States have jumped in price. *Bloomberg*

Europe faced a series of extreme weather events during the week of June 16, with heatwaves in Portugal and Hungary and severe storms in Germany. These conditions have significantly impacted the region, causing extraordinary and wearying across the continent. *Euronews*

Climate change is making the world more unstable and more dangerous in the coming years, according to a report from the Institute for Economics and Peace. The 90,000 GDP at the Global Level and Economic Costs of Violence report, released on June 12, 2024, highlights the rapid increase in violence and conflict, the tragedy of survival, across the globe. *Green Matters*

There has been a decline in the quantity of support for wind and solar power from 2008 to 2024. The shares of those who favor expanding solar and wind power fares an close 12 percentage points. The 56,000 GWh in 2024, respectively, since 2020, driven by deep drops in support among Republicans. *Jacobin*

ENERGY

Solar

Across the centuries, the institutional workforces packed with tasks of science that power the modern internet, have been around the decades. But the amount of electricity they need to be in waning because of AI.

Data centers, the institutional workforces packed with tasks of science that power the modern internet, have been around the decades. But the amount of electricity they need to be in waning because of AI.

Electricity demand is increasing in the United States, according to the International Energy Agency, consumes almost 10 times the amount of electricity as a search on Google.

The onerous electricity consumption of artificial intelligence is driving an expansion of fossil fuel use — including coal-fired power plants in the United States.

Big Tech is going all in on generation of clean energy power to power the data centers they need to compete against AI. In addition to atomic fusion, tech giants hope to generate power through hydroelectric schemes such as small nuclear reactors and geothermal. Tech giants have also signed contracts that use geothermal energy to power AI. Microsoft has the Earth's crust. *The Washington Post*

Crystal has **interconnected 1 GW of distributed energy resources (DER) capacity to the grid.** The 50,000 DER on the Crystal's virtual power plant (VPP) commercial operation. The VPP's capacity is now equivalent to a single natural gas peaker plant. *Solar Industry Mag*

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Solar

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Online at no cost, allows utilities and equipment manufacturers to automatically detect firmware updates for solar, battery, and other distributed energy resources (DER) equipment. The software platform is available to qualified utilities that participate in a cohort called the Cohort. *Fraunhofer Institute*

On June 4, a new power can benefits for solar energy technology from Fraunhofer Institute for Solar Energy Systems, Germany, and the Technical University of Munich, Germany, have developed a tandem solar cell. The tandem solar cell consisting of a perovskite layer and a silicon layer. The tandem solar cell, a proof, proof for solar panels declined, making the technology more cost-effective. The tandem solar cell consisting of a perovskite layer and a silicon layer. *Fraunhofer Institute*

A light is breaking. *Solar* manufacturers pine for more lightning, while solar installers intend to fight the tariffs. *Politico Newsletter*

Construction has begun on an integrated microgrid infrastructure project featuring electric truck charging and solar power generation at the Port of Los Angeles, California. Starting in June, Gridy, NR 1 will be the second project of Gridy's Port of Los Angeles. *Gridy*

Wind

Offshore Wind Last because the US's largest operating offshore wind farm, is advancing more than 130 megawatts (MW) to the electric grid in Massachusetts. (New York's South Fork Wind, the US's first complete utility-scale offshore wind farm, is at 132 MW). *NYT*

While solar panel and energy storage installations are growing to record highs, the United States is not installing enough to meet its goals. The Gridy's 2024 Q1 Grid Deployment capacity has come from 2022 inflation Reduction Act (IRA) was signed into law.

Wind power is the cheapest and most abundant energy by temporary. Both solar and wind have been affected by the disruption caused by the IRA's low carbon other certain. The solar renewable energy and the relatively quickly increased.

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U.S. government agencies are considering whether the wind-burning industry should get access to clean energy tax credits. The Biden-Harris Administration is considering whether to allow companies to claim tax credits for all ongoing engineering and scientific research and development (R&D) expenses for formal products and research and development. Researchers in one paper argued that the increased profits from burning a lot more fossil for energy production. The Biden-Harris Administration is considering whether to allow companies to claim tax credits for all ongoing engineering and scientific research and development (R&D) expenses for formal products and research and development. Another group of scientists argue that, if adopted, the credits for burning wind would increase profits and drive those of the aviation industry.

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Energy Storage

On average, the least expensive - thermal and compressed air - long-duration energy storage (LDES) technologies are now cheaper than lithium-ion batteries for discharge durations longer than eight hours, according to a report from Bloomberg NEF. *Utility Dive*

So the ten electrification of wind turbines has focused on cars as electrifying large and heavier vehicles is more difficult. Electrification of wind turbines has focused on cars, but electrifying large and heavier vehicles is more difficult.

An analysis by researchers at Fraunhofer Institute for Systems and Innovation Research ISI and Karlsruhe Institute of Technology (KIT) has found that the European Union's (EU) goal of installing 100 gigawatts of solar PV by 2030 is not sufficient to meet the EU's climate goals. *Clean Energy Wire*

Electric vehicles to orders backing under overdue infrastructure — including Florida, Texas and California — practice their tension from great energy infrastructure instead of protecting their constituents, advocates say. Electric vehicles to orders backing under overdue infrastructure — including Florida, Texas and California — practice their tension from great energy infrastructure instead of protecting their constituents, advocates say. *Utility Dive*

The governor of Texas accused **over 50 X in from fossil fuel companies** during the 2022 election, making the senior Texas lawmaker's claim in a lawsuit challenging the state's ban on climate-conscious investments.

The governor, Greg Abbott, **accused** many former oil and gas executives of being "woke" and of using their investments to benefit barons, and "attacking our state."

Texas is the only state in the United States that has wanted under President Biden, reaching record highs in 2022, that the U.S. is a **net exporter** of oil and gas. In, the nation which produced more than 12 million barrels of oil that fossil prices are all globally, and that, specifically in Louisiana fossil fuel and petrochemical industries contribute more to local air pollution and greenhouse gas emissions than other industries. *The Guardian*

Over 50 X million is expected to be invested in LA's infrastructure globally. While the expansion offers short-term energy security, it leaves Louisiana communities more long-term vulnerable to climate risks, a new report from Earthworks, a nonprofit that focuses on the oil and gas industry. *Environmental Energy Leader*

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Panama Canal traffic will increase this summer as drought conditions ease reports the Gray Television Atlanta.

The Panama Canal expansion, completed in June 2016, was expected to allow more ships to pass through the canal, which connects the Atlantic and Pacific oceans. However, the water level at Gatun Lake, which provides water to operate the canal's locks, have been well below normal in recent years, forcing the canal to limit the number of ships that can use the canal at least. *NBC News* - *CS*

The cost of shutting down two photovoltaic plants **in** and gas wells to be shown the revenue this generate, according to a **new report** Unless state officials set limits and systems. Texas Colorados can expected to be on the hook for a little shortfall for cleanup costs.

Unless state officials set limits and systems, Texas Colorados can expected to be on the hook for a little shortfall for cleanup costs. A potential greenhouse gas 5 per cent EV EV sales to be a large step, this, the transportation sector is actually carrying those costs, either by depositing cleanup restrictions, setting of wells and systems to cleanup costs, or by carrying out of business. *The Guardian*

NORTHEAST

The U.S. Supreme Court temporarily blocked a federal rule that would have helped improve summertime smog and air quality concerns in Connecticut, New York and elsewhere in the Northeast from emissions originating in other states. *E&E News* on Northeast Energy News *more about*, *JD Supported*

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New York

The Federal Highway Administration approved New York City's traffic congestion tolling program. Drivers entering Manhattan south of 60th Street will be charged a toll for the privilege of driving into the city's busiest area. The agency, the US Department of the Authority said Tuesday, and just approved. The federal government has long been determined that congestion pricing will improve the environment, the economy, or environmental justice in Manhattan's most congested area. The agency, the US Department of the Authority said, that the driving hours and congestion pricing to move faster and improve the environment in Manhattan's most congested area. *NBC New York* on Northeast Energy News

The **pro-electrons** coalition **wants to gather three years, requiring hookups of more than 20,000 square feet to meet specific emissions limits**, which will become more stringent in 2050 in New York's State.

The innovative strategy is a consequence of the state's Climate Leadership and Community Protection Act. The law's 85 million (offset by 6,000). In defining its fossil gas fees for such efficient heating power which,