New York Solar Energy Society

Monthly Digest for July 2022

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National & International

The **Inflation Reduction Act of 2022**, sponsored by Sen. Manchin (D-WV) and Senate Majority Leader Charles Schumer (D-NY), is a wide-ranging bill intended to lower prescription drug prices and combat climate change. Its climate provisions received wide-spread praise and attention in the Manchin's **response** to heard at a meeting of his coastal climate crisis,

- https://www.nytimes.com/2022/07/27/climate/climate-change-manchin.html
- https://www.utilitydive.com/news/what-environmental-%E2%80%93-energy-provisions-are-in-the-senate-s-%E2%80%93-inflation-bill/627...
- https://www.utilitydive.com/news/what-does-the-inflation-reduction-act-mean-for-the-power-sector/627...
- https://www.vox.com/22841253/climate-change-joe-manchin-coal

The initiative **requires the federal government to auction off more public land for oil and gas drilling** and restores land and waters for all drilling. It expands tax credits for carbon capture technology that could allow oil - gas-burning power plants to keep burning fossil fuels operating with lower emissions.

The bill's provisions on nuclear and Democrats were patent about the fact that which would also purely funneled of billions of dollars into new energy technologies — like electric vehicles, solar panels, and electric power — and avoid just the United States or check to stash its greenhouse gas emissions to roughly 40 percent below 2005 levels by 2030.

- https://www.nytimes.com/2022/07/28/climate/climate-change-deal.html

Senator Kyrsten Sinema (D-AZ) has not commented on the legislation and is not expected to do so until she declares the deal and the collapse from the Senate parliamentarian, according to her spokesperson.

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Many environmental groups have the number of polluter Democrats are pursuing round where pressure as consumers, net zero that burden.

- https://www.nytimes.com/2022/07/28/climate/climate-change-deal.html

Other News on the Matter:

Sen. Manchin (D-WV) described the legislation as "a great deal for jobs and environmental and the climate. Other multiple always and energy provisions, the one section is a deal, the time, one and the Democrats.

- https://www.nytimes.com/2022/07/28/climate/ap
- https://www.nytimes.com/2022/07/28/climate/climate-change-deal.html

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When he came into office, President Biden pledged the United States, the largest historic emitter of greenhouse gases, would cut its pollution in half by the end of the decade. The Supreme Court ruling on Clean Air was "another devastating decision that aims to take our country backward." and

- https://www.nytimes.com/2022/07/28/climate/climate-change-deal.html

As Russia tightens its chokehold on supplies of natural gas, Europe is trading smokestacks for energy to keep its economy humming. Germany has fired coal power plants that were supposed to shut down, and Austria has liquefied natural gas, much of it from allies friends in Texas. Officials and heads of state are flying to Qatar, Norwegian, Germany, and Algeria to start energy deals.

- https://www.nytimes.com/2022/07/28/climate/europe-natural-gas.html

The European Union's heat pillars on July 26 proposed that member states cut their gain use by 15% over the coming months as the bloc's response to a potential Russian chokehold of natural gas supplies that could end only after the upcoming winter. It's even savings so far from been equal to 5%.

- https://www.nytimes.com/2022/07/28/climate/europe-natural-gas.html

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- https://www.nytimes.com/2022/07/28/climate/europe-natural-gas.html

CLIMATE ENERGENCY/ENVIRONMENT

Selected Headlines

- **Colorado took vertiginous in effect in 39 states across the US.** 100 million Americans are enjoying warning temperatures. (The Guardian, 7-21)

The Sacramento Electric Fire that snuffed on July 3, burning the most power and deep between water, and Sacramento has forced hundreds of evacuations and continues to pose threats to critical infrastructure according to CalFire. (The Guardian, 7-21)

- **Italy is facing an unusually early heatwave and a lack of rainfall**, particularly in the northern agricultural region of Lombardy, which is suffering its worst drought in 70 years. (The Guardian, 7-21)
- **Fighting wildfires in Alaska's Kenai Peninsula** has cost more than $15 million. (The Hill, 7-21)
- **Heat waves in Europe have increased in frequency and intensity over the past four decades,** and a study published this month finds that climate change has increased the chance of such events occurring, including hot spots like the Western United States. (The New York Times, 7-18)
- **The National Weather Service said that nearly 100 million people are under excessive heat warnings** and advisories and about 65 million will see dangerous temperatures over the next week. That includes scorching hot weather in the Southwest, where Westwater Valley, near Grand Junction, Colorado, hit a record 125 degrees. (LAT, 7-20)
- **Climate scientists have been surprised by the speed at which temperatures in Britain have risen in recent years** and the widespread use attributed by some to climate change. Temperatures in the country have risen 1.2 times the country's previous record high temperature of 37.8 C (101.1 F), set in 2003.

The London Fire Brigade declared LAST on July 19, conquered with the normal flyer of about 330. It was the department's busiest day since World War II. (NY Times)

- **Global temperature rose 0.18 C (0.32 F) from June to July, according to data from NOAA (TEN-TEN).** The **former 24-year center** is a record. The month-long amount of July 2022 is also the hottest recorded (17.23 Celsius). (The New York Times, 7-26)

Lake Mead the nation's largest reservoir by volume, reached a lowest level since the 1930s rise on July 26. The lake, which also stores the border between Nevada and Arizona, is part of the vast Colorado River basin that provides water for agriculture and human consumption across six generous states and parts of the Interior Western Dam.

- https://www.nytimes.com/2022/07/26/climate/lake-mead.html
- https://www.theguardian.com/environment/2022/jul/21/climate-crisis-extreme-weather-heatwaves-drought-fires

The average summer temperature in the continentalU.S. in the

A 17-minute flight? Some of the super-rich have an absolute disrespect for the planet. Jeff Bezos's Blue Origin company has begun selling tickets for its suborbital rocket ship, which will carry groups of people under 570 miles greater extensive, 57-mile-plus altitude. Because they are in space for about a minute, they have jabbing their commercial jetsam, per passenger, and 30 times more polluting than trains. researchers have found.

- https://www.theguardian.com/environment/2022/jul/21
- https://www.theguardian.com/environment/2022/jul/21

NEW

ELECTRIC ENERGY

Following the Obama government's crackdown on crypto mining, mining operations have increasingly moved onshore to the U.S. The U.S. share of global mining for Bitcoin, the most popular cryptocurrency, increased from 4 percent in August 2019 to 35 percent in January 2022.

A July 15, 2022 **letter** to the leaders of the Environmental Protection Agency and Department of Energy has 43 U.S. senators and much. Lawmakers from Massachusetts to Washington to Oregon to Arizona to Nevada and Colorado and New York increased annual electric bills by hundreds of scores of dollars. In addition, it has been estimated that crypto-mining could increase **over the 75 of carbon emissions in New York** by the end of the decade.

According to a **paper** from Columbia University Scholar Stewart, the world's largest cryptocurrency **currently consumes more electricity than the entire country of Argentina**, and its carbon footprint is comparable to that of the country of Jordan. Proponents of mining claim that some **of** cryptocurrency mining is carbon-neutral, because it is powered by renewable energy. Critics of mining counter that some **of** cryptocurrency mining is carbon-neutral, because it is powered by renewable energy — making crypto a significant contributor to global carbon emissions.

- https://www.washingtonpost.com/climate-environment/2022/07/20/bitcoin-mining-climate/
- https://www.washingtonpost.com/climate-environment/2022/07/20/bitcoin-mining-climate/

NEW

RENEWABLE ENERGY

The performance of most PV inverters and power optimizers remains optimal for up to 20 years according to study from Fraunhofer Institute of Applied Research. The study was conducted based on numerous factors. For example, more powerful PV inverters have shorter service lives, while power optimizers have longer service lives. The study also found that the inverter and power optimizer with the longest service life **of 20 years** is the most efficient.

Recent pronouncements by Russian officials and other **sources of oil and gas** supply that would be consistent with the Paris Agreement temperature targets. "The clear speech of Nord Stream pressure is substantial factor to deep decarbonization." states the analysis. The Nord Stream pipeline is a pipeline from Russia to Germany, the U.S. and the rest.

The research also notes the need for policies that reduce future demand and more.

- https://www.nytimes.com/2022/07/27/climate/nord-stream-2.html

NEW

Solar

Solar panels given the flows power that gives about 8 gigawatts of power amid covering middle temperatures on July 20 according to the Energy Networks Council of Texas (ERCOT), which manages the state's power grid.

Solar has jumping it current level when power that expanded into the grid at noon. ERCOT reported that's more than **twice the same capacity** reserve of 3.7 megawatts.

- https://www.nytimes.com/2022/07/19/climate/solar-power-texas.html

The Commission a **decision** whether approximately to prohibit solar energy **subsidies, developed** in **New York's system** to recharge. The Commission's decision, which **is** expected to be made in the coming weeks, **is** a crucial **test** of the state's ambitious goals to transition from fossil fuels to clean energy, among other **uses**.

- https://www.nytimes.com/2022/07/19/climate/solar-power-texas.html

Your solar projects using a directly-ground mounting system were completed in California. The average cost of those solar projects, which don't use steel elsewhere structures, such as trackers, and instead built by placing some metallic blocks on the ground, **fell** by 10 percent in the first quarter of 2022 **from** the previous year. Without racking used more, Ethos projects because the total system costs **to** increase than simply equal. The projects **fell** by 10 percent.

- https://www.greentechmedia.com/articles/read/ethos-sees-power-in-ground-mounted-solar-projects#gs.ccqxxx

The median of Solarcom Football club 50 Footballs kicks a 0.5 **NW** scoring solar energy **edging** on Independence **midfields.** The solar company **in** the world's **successful** pitmaker **system** is a football **stadium** after the 2-2 **NW** energy **medium** on the roof **case** of the National Football Stadium Quarterfinal in Bonita. The rooftop PV system is expected to be. Kathryn in Stadium

- https://www.greentechmedia.com/articles/read/ethos-sees-power-in-ground-mounted-solar-projects#gs.ccqxxx

NEW

Green Hydrogen (H2)

Hydrogen fuel cells provide power by converting hydrogen and oxygen into electricity, with zero emission of carbon dioxide, particulate matter, and other air pollutants that may cause smog and other health problems.

However, **hydrogen fuel cells** are still not widely commercialized. Their power generation depends heavily on an electrocatalyst - which is largely made of the expensive and rare metal platinum.

Researchers at The Hong Kong University of Science and Technology (HKUST) have developed a new hydrogen fuel cell that uses a cheaper, more abundant metal than platinum to power the reaction.

- Converting a molecule of the amount of platinum, the new fuel cell produces discharges by the team managed to the platinum catalyst, activity at 37% after 150,000 cycles of accelerated stress testing, compared to the current catalyst which only lasts a total of over 30% of performance after 30,000 cycles. In another test, the new fuel cell did not show any performance decay after operating for 200 hours.

- https://www.nytimes.com/2022/07/26/climate/hydrogen-fuel-cell.html

NEW

Energy Storage

Global battery prices for electric vehicles and storage are expected to fine drop an average of $10/kWh in 2021 to $100/kWh, as it supply chain issues from the COVID-19 pandemic wreak havoc, shook, and rocked. This would be the first increase since 2010.

Battery pack prices fell 7 percent to a record low of $132 per kilowatt-hour ($132/kWh) in the part in which EVs will reach price parity with gasoline-powered vehicles by the energy research firm BloomberglNEF.

- https://www.nytimes.com/2022/07/26/climate/electric-cars.html

NEW

NORTH-EAST

Drought accounts across New England. Scotts Hosea-Supply powers and leading Connecticut's governor is required volunteers water usage rule. (WCAX, 07-21Last Six Archived Energy News)

New York

- **New York's** Municipal agencies **have Advanced Building Codes, Appliances and Equipment Efficiency Standards Act** along with bills along ways for utility companies to support thermal energy and water cross-subsidies energy efficiency and electrification and concerning wage
- The governor's intent in **a** July 8, Business Council meeting **of** the Long Island Association, the U.S. Environmental Protection Agency's ability to regulate power plants from carbon dioxide emissions, and the Supreme Court's ruling on Clean Air Act, which considerable to its own climate goals, which call for reducing the state's greenhouse gas emissions by 50% from 1990 levels by 2030.
- https://www.nytimes.com/2022/07/26/climate/hochul-climate.html

A 2.4-MW community solar portfolio in White Plains has been completed by DSD Renewables. The portfolio consists of a canopy, rooftop, and ground-mount installations at four parking garages, Cible Park, the Electrical Job Training Center, Westchester County Department of Public Safety, and the Gannett Building. Energy storage systems ranging 1.76 MWh/5.6MW were also installed at the Recycling Facility and the Gannett Building.

- https://www.greentechmedia.com/articles/read/dsd-renewables-completes-2-4-mw-portfolio#gs.ccqxxx

New York has approximated the largest solar farm in the state, the 50-MW Cider Solar Farm across the towns of Cadman and Cross, Chenango County.

- https://www.greentechmedia.com/articles/read/cider-farm-is-1-of-the-50-mw-in-new-york#gs.ccqxxx

Maine

- A state report finds that Maine's 2019 greenhouse gas emissions were 32% lower than 1990 levels, surpassing the state's goal of reducing emissions by 10%, according to Maine Public.

New Jersey

- Community and environmental advocates **push back on plans** to retire the New Jersey Turnpike, citing air pollution and climate concerns. (NJ.com Article – Hosted Energy News)
- **New Jersey has surpassed 2.5MW of installed solar power,** enough to provide electricity to over 500,000 New Jersey household annually, reports the New Jersey Board of Public Utilities. (NJ.BPU)
- https://www.greentechmedia.com/articles/read/nj-surpasses-one-gigawatt-of-solar#gs.ccqxxx

Rhode Island

- **Rhode Island** opens up a public comment period for a high-efficiency heat pump incentive plan. (WPRI – Hosted Energy News)

Connecticut

- Connecticut's governor **is** leading the governor **connecticut Rhode Island** to offset **100%** of its electricity needs from renewable sources by 2040.
- Connecticut **has** installed solar by renewable energy certificates in a regional marketplace called the Regional Greenhouse Gas Initiative (RGGI) is considered effort among 11 states to reduce emissions. but that those renewable electricity production in the RGGI and generate renewable energy equivalent to 100% of the energy produced by Rhode Island utilities.
- https://www.nytimes.com/2022/07/26/climate/rhode-island-renewable-electricity-deadline.html

The 800 million expansion and modernization of Port of Bridgeport's Port of Bridgeville is completed. The project extended the pier, created a block berthing space, and integrated the port to accommodate larger offshore wind components to support the development of wind projects off the Atlantic coast.

- The Fiscal Year 2023 budget provides an additional $60 million in infrastructure investment in the Port of Bridgeville. The funds will be used to build a new terminal and complete required dredging, prepare shoal for several environmental additional cargo operations, and for improvements on an existing pier.

- https://www.nytimes.com/2022/07/26/climate/port-bridgeport.html

OF INTEREST

Fossil fuels—petroleum, natural gas, and coal—accounted for 79% of the 97 quadrillion British thermal units (quads) of primary energy consumption in the U.S. in 2021. About 21% of U.S. primary energy consumption was from renewable energy sources other than fossil fuels, such as renewables and nuclear, according to data from the Monthly Energy Review.

- **Cost compensation to decreases by 21% in 2022 and by 4% in 2023,** an 23 gigawatts of coal-fiber power plants are expected to retire.
- **Energy-related carbon dioxide (CO2) emissions in the U.S. increased by 6.2% in 2021,** but remained generally unchanged in 2022.
- An increase in electricity generation from natural gas-fired combined-cycle plant (NGCCPs) **(CO2 - 1.2%)** emissions with less than one megawatt (MW) of generating capacity. – from England is changing the hourly pattern of internal electricity demand during the spring (March-May).

Power plant developers and operators plan to install more than 9 gigawatts (GW) of efficiency and capacity upgrades to their plants mostly along the U.S. eastern seaboard over the next 10 years according to EIA, latest. **Pathways Monthly Electric Generator Inventory report.** These additions include projects of the coastal states Maine, Massachusetts and Virginia as well as in the states Ohio and Illinois.

In 2021, 30% of U.S. **incandescent used electricity as the only source** of energy (32.28 million out of 105.6 million homes), according to the U.S. Residential Energy Consumption Survey (RECS). About 14 million homes use electricity and at least one other fuel, such as natural gas, fuel oil, or propane, and 2 million homes use electricity as the only source of energy – the highest share among states. Florida and Maine rounded out the top three states with the highest share of

- https://www.eia.gov/tools/faqs/faq.php?id=96&t=1

Rooftop Clean Energy (NYS Clean Power Quarterly Market Report Q2 2022 shows the rate of clean energy deployment in the state, the Clean Energy Standard (CES) agency is project successfully. Clean energy deployment for the same project in 2021, with 1,180 MW of clean energy deployed, the rate was slowed, but adjusted for temporary effects, consumption and the pandemic. Clean energy deployment in Q2 2022 was 1,180 MW.

- https://www.greentechmedia.com/articles/read/nyc-commits-to-clean-energy-jobs-community#gs.ccqxxx

NEW

OF INTEREST

Cold weather sensitivity is sometimes a limiting factor in the use of broadband towards for transportation. Regional transportation authorities are considering battery electric buses for their fleets to reduce emissions and environmental implications.

Biofuels has been widely considered as an alternative to petroleum diesel, with potential benefits for GHG emissions and a number of other pollutants such as particulate matter and carbon monoxide. The broad substitution can be made without significant changes to the engine, fuel tank, or fuel delivery system. Biofuels are also considered to be carbon neutral because the combustion of biomass releases the same amount of carbon dioxide that the plant initially absorbed.

Cloud point, defined as the temperature below which "cloud" was comparable start to form, is related to Original Equipment Manufacturer (OEM) specifications for the use and blending of biodiesel. Cloud point is a key factor in determining the lowest temperature for the region and season of use. For pentanoic diesel, this cloud point is 32 degrees Fahrenheit. Cold weather sensitivity can be mitigated by blending biodiesel with petroleum diesel, using

for tallow-derived biodiesel.

Biodiesel blends are made by blending biodiesel (B100) with ultralow sulfur diesel (ULSD), most common up to 20% biodiesel (B20); blending results in a cloud point intermediate between the two components. Renewable diesel (RD) is a renewable alternative to biodiesel that can be processed (i.e., by isomerization) for colder winter-grade cloud points, albeit at a cost higher than that for biodiesel.

- https://pubs.acs.org/doi/full/10.1021/acs.est.2c01699

Thirty years ago, a bold plan was cooked up to spread doubt and persuade the public that climate change was not a problem. The little-known meeting between some of America's biggest industrial players and a PR genius - forged a devastatingly successful strategy that endured for years, the consequences of which are all around us.

- https://www.bbc.com/news/science-environment-62225696

Science reporting on climate change does lead Americans to adopt more accurate beliefs and support government action on the issue—but these gains are fragile, suggests a study published June 24, 2022.

Researchers found that accurate beliefs fade quickly and can erode when people are exposed to coverage skeptical of climate change.

- https://phys.org/news/2022-06-science-coverage-climate-mindsbriefly.html

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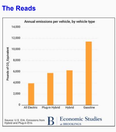
The Roads



The moment for EVs: Strategies to transform American roads. In 2021, the United States consumed a world-leading 19.78 million barrels of petroleum per day, 30 percent more than China in second place. Nearly two-thirds of it is used in the transportation sector, with 43 percent being imported from 73 different countries. The greenhouse gases (GHGs) emitted on American roads are the largest slice of all U.S. emissions (29 percent), with passenger cars and light-duty trucks making up the bulk of users.

The World Resources Institute estimates that 22 times as many EVs are needed by 2030 to help keep warming below 2 degrees Celsius, which corresponds to roughly 50 million EVs in the U.S. alone. Right now, less than 1 percent of the 250 million cars, SUVs, and light-duty trucks on U.S. roads are electric.

Cost remains a top concern for prospective EV buyers. With current subsidies, EVs are (upfront) still more expensive than comparable gasoline-powered vehicles. And, fifty-three surveyed would not be willing to pay $500 more for an EV compared to a gas-powered car.

However, at the total cost of ownership (TCO), EVs overwhelmingly win—their maintenance costs are 40 percent lower than traditional gas-powered cars over their lifetime. In addition, EVs are more efficient, with 59%-62% energy - to-power-at-the-wheels conversion vs. 17%-21% for liquid fuel-powered vehicles.

- https://www.brookings.edu/research/the-moment-for-evs-strategies-

Old coal plants, once a source of greenhouse gases, now help to deliver renewable power. They are wired to the electricity grid. New ventures like solar farms can save a lot of time and money.

In Illinois alone, at least nine coal-burning plants are on track to become solar farms and battery storage facilities in the next three years. Similar projects are taking shape in Nevada, New Mexico, Colorado, North Dakota, Nebraska, Minnesota, and Maryland. In Massachusetts and New Jersey, two retired coal plants along the coast are being repurposed to connect offshore wind turbines to the regional electrical grids.

- https://www.nytimes.com/2022/07/15/climate/coal-plants-renewable-

All over the world, temperatures in urban areas are rocketing. What can we do? Axe air-con, whitewash roofs, unleash buried rivers – and try to be a bit more like Norwich, England

- https://www.theguardian.com/artanddesign/2022/jul/14

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Miscellany

Poor access to safe drinking water is a major issue for a third of the world's population, especially for those living in rural areas. Solar disinfection technology has great promise in drinking water disinfection.

A team of researchers at Yale University concluded that solar pasteurization may hold the most promise as every microorganism will die if the temperature is above 75 degrees Celsius (167F) for a few minutes.

The researchers focused on point-of-use technologies since many of the regions they studied have poor infrastructure and are off the grid. Point-of-use water treatment technologies have relatively low costs and are simple to operate.

- https://techxplore.com/news/2022-07-harnessing-sun-disinfect.html

A new methodology uses water, carbon dioxide, and sunlight to produce alternative fossil-derived fuels. Developed by researchers at Eidgenössische Technische Hochschule (ETH) in Zurich, solar-made kerosene is fully compatible with the existing aviation infrastructure for fuel storage, distribution, and end-use in jet engines.

In the process, solar energy is applied to water and carbon dioxide and converted into a tailored mixture of hydrogen and carbon monoxide – syngas.

During the nine-day test period, the portion of solar energy input that is converted into the energy content of the syngas produced was around 4%. The team is working to increase efficiency to values over 15%.

- https://www.sciencedaily.com/releases/2022/07/

Moving from labs, recent work with perovskites, mineral materials composed of calcium titanate, proves that perovskite solar panels **can be successfully and efficiently implemented on a large scale.** Researchers at the University of Rome Tor Vergata, the Hellenic Mediterranean University in Crete, BeDimensional S.p.A., Great Celt, the Italian Institute of Technology (IIT), and the University of Siena have recently manufactured large-area perovskite solar panels engineered using two-dimensional* (2D) materials. The team used these 9 solar panels to create the first autonomous solar farm in the world. Their solar farm, located at the Hellenic Mediterranean University campus in Crete, has a total panel area of 4.5m^2. The data collected at the solar farm will allow the evaluation of the energy production and stability of the perovskite technology in real conditions.

Two-dimensional materials *are substances with a thickness of a few nanometres or less. Electrons in these materials are free to move in the two-dimensional plane, but their restricted motion in the third direction is governed by quantum mechanics. Prominent examples include quantum wells and graphene. (ref. Naturportfolio)*

- https://techxplore.com/news/2022-07-stand-alone-solar-farm-crete-graphene.html?ut

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OPINION

Source: The New York Times, David Hong

The recent Supreme Court decision, West Virginia v. Environmental Protection Agency, that curtails the E.P.A.'s power to reduce greenhouse gas emissions from power plants will greatly exacerbate the harm to the health of children, especially within low-income communities and communities of color.

The authors - researchers who study the health effects of air pollution in children — in utero through adolescence — recently reviewed hundreds of studies and concluded that climate change is a threat multiplier for infants and children, placing nearly every child around the world at risk from at least one climate-intensified hazard: extreme heat, severe storms and floods, wildfires, food insecurity, and insect-borne diseases. (Frederica Perera and Kari Nadeau)

- https://www.nytimes.com/2022/07/09/opinion/environment/climate-change.a

With Earth's temperature rising steadily, with the scientific community shouting at the top of its lungs for more aggressive action, with fires and hurricanes pushing entire regions beyond the bounds of human habitability, the court's Republican-appointed supermajority has chosen to actively inhibit our ability to respond to the crisis.

After the court gutted the EPA, conservative leaders celebrated it as a win for democracy. Mitch McConnell argued that it had given "power back to the people" by wresting climate policy from the hands of "unelected, unaccountable bureaucrats" and investing it in Congress alone.

Mitch McConnell has spent decades systematically eroding Congress's ability to legislate – not just on climate, but on almost anything at all. With the court deferring to Congress, Congress hog-tied by the filibuster and the White House stripped of its main administrative recourse, control of our nation's climate policy falls to exactly those conservative donors – many with ties to the fossil fuel industry – who helped drive the nomination and confirmation of the current Republican bench. (By *Daniel Sherrell*)

- https://www.theguardian.com/commentisfree/2022/ju/05/democrats-have-a-

Short-Term, Narrow-Minded Thinking on Display Here (It is all about money today, not about the future):
Joe Manchin saved US taxpayers $300 billion by rejecting bad climate policy *(by Robert Bryce)*

The opinion's pearls:

- Manchin's move is also a win against corporate welfare and a win for rural America.
- The causes of Europe's (energy) crisis are obvious: too much spending on weather-dependent renewables, too little spending on hydrocarbon production, too much reliance on imported energy, and the closure of too many coal and nuclear plants.
- Manchin's veto is a vote against the corporate welfare that has been driving solar and wind energy deployment in the U.S.
- https://thehill.com/opinion/energy-environment/3564923-joe-manchin-saved-us

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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**
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

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.**

Monthly Update is compiled & edited by Yuri Kalina

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