



DEPARTMENT OF THE TREASURY

WASHINGTON, D.C.

MEMORANDUM

**To:** Interested Parties  
**From:** Deputy Secretary Wally Adeyemo  
**Date:** August 16, 2023  
**Re:** Inflation Reduction Act – Year 1

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One year ago, Congress passed, and the President signed, the Inflation Reduction Act into law. This marked the single most significant legislation to combat climate change in American history and one of the largest investments into the American economy in a generation.

Already, the investments and our implementation have borne fruit: over the past year, the law has unleashed an investment and manufacturing boom in the United States unlike anything seen in decades. **Companies have announced nearly 200 new projects [totaling over](#) \$110 billion of investment in building America’s clean energy economy. Treasury analysis released this week points out these announced investments in clean energy, electric vehicles, and batteries are concentrated in communities with lower wages, lower college graduation rates, and lower employment rates.**

According to one [estimate](#), China has historically spent over \$400 billion per year on industrial policy, largely through direct subsidies to firms and below-market credit to state-owned enterprises. Our strategy, by contrast, uses modest incentives to promote private investment. By doing so, the Inflation Reduction Act will [unlock](#) \$3 trillion of investment in America for renewable energy technology.

While more productivity gains and long-term economic growth will come in years to follow, we already see progress in three key metrics:

- **Creating good-paying jobs** across the United States, especially in disadvantaged communities;
- **Strengthening our energy security** to build resilience to geopolitical risks and other potential economic shocks; and,
- **Tackling climate change** by accelerating the development, adoption, and deployment of clean energy technologies.

**Creating Good-Paying Jobs**

A central tenet of the Inflation Reduction Act is spurring job creation across the United States. These investments in clean energy are a prime example of Secretary Yellen’s modern supply-side economics framework—harnessing government action to promote growth while addressing



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climate change and inequality. Not only do these investments generate long-term economic growth for the whole country, but they also create jobs in disadvantaged communities.

Over the past twelve months, we've seen these investments start to translate to American jobs:

- The following 70-page list of investment announcements details the tens of thousands of jobs being created in communities across the country, from Colorado Springs to Minneapolis, Albuquerque to Toledo.
- The annual economic [opportunity](#) for workers in the wind and solar industries will [grow](#) by \$220 billion per year in wages by 2035
- Moving forward, clean energy investments [could support](#) over 1.5 million clean energy jobs in the United States by 2030.

### **Strengthening Our Energy Security**

Events of the past year – from climate emergencies and supply chain snarls to Russia's weaponization of exports – have further demonstrated the acute need to invest in our energy security and transition. The Inflation Reduction Act equips us to do so by accelerating the development and deployment of clean energy, including key supply chains. Getting clean technologies to market faster, supported by reliable supply chains for essential components, is key to building a resilient energy sector, while also ensuring that lower energy costs for Americans are not dependent on unreliable geopolitical actors.

- [Estimates](#) suggest the Inflation Reduction Act can also help bring down the costs of certain emerging technologies by as much as 25 percent, and position America as the global leader in these areas.
- Analysts now expect twice as much wind, solar, and battery storage [deployment](#) over the next seven years compared to the base case without the law. One [analysis](#) found that the typical American household could save around \$200 per year just on their electric bills.
- Households that take advantage of the electric vehicle incentives can [save](#) thousands per year on energy and fuel costs, as electric vehicle drivers will see their fuel costs go [down](#) by about 60 percent.

### **Tackling Climate Change**

Curbing carbon emissions necessitates the development and adoption of clean energy. For too long, the United States has lagged in making the adequate investments needed to accelerate a



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clean energy transition. The incentives in the Inflation Reduction Act have positioned the United States to lead on clean energy and meet our goals.

- With the Inflation Reduction Act, the President's 2030 emissions reduction goal is within reach. A [slew of independent studies](#) suggest the Inflation Reduction Act will drive significant emissions reductions.
- As the Inflation Reduction Act drives lower costs of emerging climate technologies, these technologies will be deployed globally, and eventually can [reduce](#) hundreds of millions of tons of emissions around the world each year.
- Increased deployment of clean energy and reduced particle pollution improve people's day-to-day lives. For example, due to our investments, we [can avoid](#) thousands of premature deaths and asthma attacks.

These incentives and investments are, of course, part of our broader, whole-of-government approach to climate change. For instance, other policies like the Bipartisan Infrastructure Law and further steps to upgrade our electric grid infrastructure will all contribute to major climate progress in the years to come. These federal policies run in tandem and in partnership with state, local, and private-sector action and market forces.

### **Next Steps**

In our first year of implementation, the Treasury Department has focused on achieving three goals: creating good-paying jobs, strengthening our energy security, and tackling the climate crisis. Our efforts have stretched across the Department, including the Office of Tax Policy, Climate Hub, Inflation Reduction Act Program Office, and the Office of the Deputy Assistant Secretary for Management and Budget. At the same time, the Treasury Department is working closely with the IRS to modernize the agency's customer service and technology and ensure the Inflation Reduction Act's clean energy tax incentives are delivered accurately and seamlessly.

The Treasury Department has prioritized the pieces of guidance that will provide maximum economic, energy security, and climate benefits. Treasury will complete the first phase of [implementation](#) in the coming weeks, having provided information or proposed guidance for the Investment and Production Tax Credits' cross-cutting bonus provisions, as well as new credit monetization provisions that are a force multiplier for job creation and clean energy deployment. Treasury will announce plans for phase two of implementation in September.

At Treasury, we are focused on implementing the clean energy tax provisions as quickly as possible. On the day of the law's enactment, Treasury issued guidance on the electric vehicle tax credit and worked to ensure consumers could easily find a list of eligible vehicles online. Since then, Treasury and the Internal Revenue Service have issued 38 pieces of guidance on the clean



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energy provisions, while engaging with hundreds of stakeholders and reviewing nearly 5,000 comments.



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## Clean Energy Investments Announced Since Passage of Inflation Reduction Act

*August 10, 2023*

*Albuquerque, New Mexico*

### [Maxeon Seeks to Spend \\$1.2 Billion Building Biggest US Solar Factory](#)

Maxeon Solar Technologies Ltd. plans to spend **\$1.2 billion** to build the biggest US factory for polysilicon solar panels, as President Joe Biden's landmark climate legislation continues to boost domestic clean-energy manufacturing.

Construction on the plant in Albuquerque, New Mexico, is set to start in the first quarter with production expected to begin in 2025, the Singapore-based firm said Thursday in a statement. The facility will be able to produce as much as 3 gigawatts of solar cells and panels a year, doubling Maxeon's manufacturing capacity. A gigawatt is enough to power about 173,000 American homes.

*August 7, 2023*

*Las Vegas, Nevada*

### [Solar parts manufacturer Unimacts plans to triple operations in Nevada](#)

It's been one year since the wide-ranging Inflation Reduction Act was passed, and a manufacturing company credits the legislation for its recently opened Las Vegas location.

Unimacts hired 80 people and opened a manufacturing facility that makes metal torque tubes in Las Vegas at the start of 2023 thanks to the Inflation Reduction Act or the IRA, CEO Matt Arnold said. The metal tubes allow solar panels to rotate during the day, boosting efficiency by about 10 percent.

"We wouldn't be here without the IRA — full stop," he said.

At its Las Vegas facility, located in the shadow of The Orleans, Unimacts can make enough torque tubes in a year to support two gigawatts worth of solar panels. But Arnold said the company is looking to triple the size of its operations in the near future to build enough capacity to support six gigawatts worth of solar panels and employ **over 200 people**.

*August 2, 2023*

*Loudon, Tennessee*

### [Hanon Systems bringing 600 new jobs to Loudon County](#)

**Six-hundred new jobs** are coming to Loudon County. Governor Bill Lee and state economic development leaders announced that Hanon Systems will establish a new manufacturing presence in the county.



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Hanon Systems is a leading supplier of thermal and energy management solutions for the automotive industry. The company employs more than 22,000 people across 21 countries and is headquartered in South Korea. Now, the company is coming to Tennessee.

According to the state, Hanon Systems is investing **nearly \$170 million** to establish a new facility in Huntingdon Park in Loudon. Bradshaw added that the company will also have a competitive pay scale, and the TVA said the company will help attract and retain jobs in the area.

*August 2, 2023*

*Kyle, Texas*

### [XCharge NA's New Texas Facility Boosts EV Charging Solutions](#)

XCharge North America (NA) has announced the establishment of a 3,500 square foot manufacturing facility in the Greater San Marcos area, Texas, in the City of Kyle. This facility is aimed at conducting research, development, distribution, and services for its central electric vehicle (EV) charging solutions. In the pipeline is the company's strategy to expand the facility to approximately 20,000 square feet in the upcoming years.

XCharge NA's new facility holds great significance due to its potential to enhance the accessibility of local EVs. With merely 20 public-access Level-2 and DC Fast charging stations serving a population exceeding 68,000 within San Marcos city limits and surrounding counties, the company's effort can greatly facilitate EV usage. Its plans align with the green initiatives set forth by the Biden Administration, as well as support local community initiatives and events, ultimately expanding job opportunities.

*July 24, 2023*

*Colorado Springs, Colorado*

### [Meyer Burger announces solar cell production facility in Colorado Springs](#)

Another international business has chosen to call Southern Colorado home and looks to bring hundreds of jobs with it. Meyer Burger, a Switzerland-based company will open a high-performance solar cell manufacturing facility in Colorado Springs in 2024.

“Meyer Burger’s technologies are found in most solar modules produced worldwide, and their decision to land in Colorado Springs adds to our growing advanced manufacturing sector,” said Johnna Reeder Kleymeyer, President and CEO of the Colorado Springs Chamber & Economic Development Corporation (Chamber and EDC) explained. “The new Colorado Springs footprint will be Meyer Burger’s first site in the Western Hemisphere to manufacture the chips and wafers that power cutting-edge solar technology.”

Production at the Colorado Springs manufacturing plant is planned to start during the second half of 2024. Meyer Burger expects to create **more than 350 jobs** with an average annual wage of nearly \$78,000.



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*July 24, 2023*

*Minneapolis-St. Paul, Minnesota*

### **Canada's Heliene plans new US solar panel and cell factory**

July 24 (Reuters) - Canadian solar panel maker Heliene is planning a major expansion of its U.S. manufacturing operations with a new Minnesota factory that will produce both modules and cells, its chief executive told Reuters.

The company, which already makes panels in Iron Mountain, Minnesota and Ontario, Canada, is the latest to commit to new U.S. solar production since passage last year of President Joe Biden's Inflation Reduction Act, which incentivizes domestic manufacturing of clean energy equipment with tax credits for both producers and buyers.

Heliene, which is privately held, will spend about **\$145 million** on the new facility, which will be in the Minneapolis-St. Paul area. It will have an annual capacity of about one gigawatt of modules and 1.5 gigawatts of cells, CEO Martin Pochtaruk said in an interview last week.

*July 24, 2023*

*Location Not Yet Determined*

### **Stellantis, Samsung SDI will team to build a second EV battery plant in the United States**

Stellantis NV's third battery manufacturing plant in North America will be built with Korean battery partner Samsung SDI in the United States, the companies said Monday.

The exact location of the second plant under the existing StarPlus Energy joint venture wasn't disclosed with the announcement of a signed memorandum of understanding, whose execution is subject to definitive documentation. The facility is expected to begin production in 2027 with an initial annual production capacity of 34 gigawatt hours. A dollar amount wasn't shared.

*June 26, 2023*

*Brownsville, Tennessee*

### **Enchem America Inc. to Locate US Manufacturing Operations in Brownsville**

Tennessee Gov. Bill Lee, Department of Economic and Community Development Commissioner Stuart McWhorter and Enchem America Inc. officials announced today the company will invest **\$152.5 million** to establish electrolyte manufacturing operations in Brownsville, Tennessee. Located at the I-40 Advantage Industrial Park, a Select Tennessee Certified Site, the new facility will be Enchem's second U.S. plant. The project will create **190 new jobs** in Tier 4, At-Risk Haywood County. The Brownsville facility will operate similarly to Enchem's U.S. headquarters in Commerce, Georgia, and will manufacture electrolytes for electric vehicle (EV) batteries as well as other EV battery-related services.

Enchem America Inc. is a subsidiary of Enchem Co., Ltd., which is based in South Korea. The company specializes in the development and manufacturing of electrolytes and other additives



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for rechargeable batteries. With the additional Tennessee operations, Enchem will be able to further support its EV partners across the Southeast.

*June 23, 2023*

*Locust Grove, Georgia*

### **Valdosta Today: Electric vehicle parts supplier to invest in new GA facility**

[A]utomotive parts manufacturer NVH Korea will establish a new facility in Locust Grove. The project will create over **160 new jobs** and bring **\$72 million** in investment to Henry County...NVH Korea is an automotive parts manufacturer based in the City of Ulsan and established in 1984. The company specializes in automotive noise, vibration, and heat-control parts, which it currently produces in Korea, Europe, and India. The company also operates a manufacturing facility that produces floor mats, cargo mats, and cargo trays in Georgia. The new facility will supply battery parts for electric vehicles (EVs) in the United States for manufacturers such as Hyundai Mobis, Kia Georgia, and Hyundai Motor Group.

*June 22, 2023*

*Brighton, Colorado*

### **Solar manufacturer announces plans for Brighton location**

Brighton will be home to a solar manufacturing facility along Interstate 76, the Polis administration announced June 22. The Colorado Office of Economic Development and International Trade announced today that VSK Energy Inc. will expand into Brighton, bringing as many as **900 new jobs** to the area.

The company plans to move into the 76 Commerce Center, row of warehouses along Interstate 76 just north of Brighton's 160<sup>th</sup> Avenue in 2024. The company would share the site with [autonomous warehouse equipment manufacturer Outrider](#).

VSK Energy Inc., a U.S.-based joint venture between several international solar manufacturers, announced plans to invest **\$250 million** to develop an American solar photovoltaic module manufacturing facility projected to create over 900 net new jobs.

*June 20, 2023*

*Alpena, Michigan*

### **HOLCIM US ANNOUNCES MILESTONE SOLAR INITIATIVE IN MICHIGAN TO ACCELERATE DECARBONIZATION EFFORTS**

Holcim US today announced a milestone clean energy investment in northeast Michigan with a new partnership to bring the company's largest solar project in the Midwest to its cement plant in Alpena. When combined with existing renewable energy efforts, the solar initiative will help the plant self-generate **75 percent** of its electric power needs with green energy—an important step





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toward fulfilling Holcim's pledge to power all of its US operations with 100 percent renewable energy by 2030.

Holcim is a global leader in innovative and sustainable building solutions. Driven by its purpose to build progress for people and the planet, its 60,000 employees are on a mission to decarbonize building, while improving living standards for all. The company empowers its customers across all regions to build better with less, with its broad range of low-carbon and circular solutions, from ECOPact to ECOPlanet. With its innovative systems, from Elevate's roofing to PRB's insulation, Holcim makes buildings more sustainable in use, driving energy efficiency and green retrofitting. With sustainability at the core of its strategy, Holcim is becoming a net-zero company with 1.5°C targets validated by SBTi.

In the United States, Holcim US includes nearly 350 sites in 43 states and employs 7,000 people. Our customers rely on us to help them design and build better communities with innovative solutions that deliver structural integrity and eco-efficiency.

*June 18, 2023*

*Canyonville, Oregon*

### [Renewable energy company plans to construct solar power facility in Canyonville](#)

CANYONVILLE — SolRiver Capital, a Denver, Colorado-based green energy investment firm, announced in May that it plans to construct a 4 MW solar energy project in the Canyonville area, as part of the Oregon Community Solar Program.

The Oregon Community Solar Program, introduced in 2016 by the Oregon legislature, allows customers of Portland General Electric, Pacific Power and Idaho Power to subscribe to a local solar project — a large number of solar panels in a central location, commonly referred to as a solar farm — and earn credits on their utility bills for a portion of the electricity generated by the project, while reducing reliance on fossil fuels.

The Community Solar Program is open to both homeowners and renters, so those without the means to install their own solar panels can use the program as a way to utilize solar energy. SolRiver said that the project in Canyonville could power 523 homes per year.

*June 15, 2023*

*Mesquite, Texas*

### [Canadian Solar Announces U.S. Module Manufacturing Facility in Mesquite, Texas](#)

Canadian Solar Inc. (the "Company" or "Canadian Solar") (NASDAQ: CSIQ), headquartered in Guelph, Ontario, today announced that it is establishing a solar PV module production facility in Mesquite, Texas.

Canadian Solar is building a state-of-the-art solar photovoltaic module manufacturing plant with an annual output of 5 GW, equivalent to approximately 20,000 high-power modules per day. The new facility represents an investment of over **\$250 million** and will create approximately **1,500 skilled jobs** once it is fully ramped up. Production is expected to begin around the end of 2023.



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This will be Canadian Solar's first United States manufacturing facility, following its successful track record of production in Canada, China, Brazil, Thailand and Vietnam. In 2021, Canadian Solar relocated Recurrent Energy, its 17-year-old U.S. subsidiary, to Austin, spearheading the rapid growth of renewable energy in the Lone Star State as a solar and battery storage project developer.

*June 14, 2023*

*Crawfordsville, Indiana*

**[Nucor Expands Indiana Investment with \\$115M Utility Structures Manufacturing Facility](#)**

Nucor Corporation (NYSE: NUE), the largest U.S.-based steel producer, today announced that the company's Towers & Structures business unit will build a new state-of-the-art utility structures manufacturing facility in Crawfordsville, investing **\$115 million** and creating up to **200 new** jobs by the end of 2027.

“Nucor has been doing business in Indiana since 1972, and today we have more than 2,500 teammates working at 20 different locations across the state,” said Laurent De May, General Manager of Nucor Towers & Structures. “We are excited to build on that history with our new Towers & Structures production facility. We appreciate the support we have received from state and local officials, including Governor Eric Holcomb, Secretary of Commerce, Brad Chambers, the Indiana Economic Development Corporation, Montgomery County and the City of Crawfordsville.”

*June 08, 2023*

*York Township, Michigan*

**[Toyota to Build New Automotive Battery Lab at Michigan R&D Headquarters, Expanding Electrified Vehicle Development Capability in the U.S.](#)**

Toyota Motor North America, Inc. (Toyota) announced today that it will invest nearly **\$50 million** to construct a new laboratory facility at its North American R&D headquarters in York Township, Mich. to evaluate batteries for electric and electrified vehicles in North America. As part of its evaluation process, the new Michigan battery lab will ensure that Toyota's batteries meet North American customer requirements by confirming performance, quality and durability of automotive batteries made by Toyota. Operations at the new battery lab are expected to begin in 2025.

*June 07, 2023*

*Dublin, Georgia*



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### [Gov. Kemp: Woory to Open EV Parts Manufacturing, R&D Facility in Laurens County](#)

Governor Brian P. Kemp today announced that Woory Industrial Co., Ltd., an automotive parts manufacturer, will establish a new manufacturing facility in Dublin, Georgia. The facility will create more than **130 new jobs** and an estimated **\$18 million** in investment in Dublin-Laurens County.

Woory Industrial Company, known as Woory, was established in 1989 and specializes in heating, ventilation, and air conditioning components and systems for the global automotive industry. Today, Woory not only maintains its traditional product lines but is also concentrating on the development of new products for electric vehicles (EV) and hydrogen-fueled cars.

*June 01, 2023*

*Mt. Vernon, Illinois*

### [Company plans to invest \\$54M with new manufacturing facility in Mt. Vernon; create more than 60 jobs](#)

Governor JB Pritzker, Manner Polymers and the Illinois Department of Commerce and Economic Opportunity joined local leaders and partners to announce Manner Polymer's new facility. According to a release from the governor's office, the new facility will manufacture a variety of PVC compounds, including automotive PVC compounds for use in electric vehicles and components for solar panels.

They say the facility will be powered by a 15-acre solar field located on site. Through an incentive package from Reimagining Energy and Vehicles in Illinois, Manner Polymers plans to invest **\$54 million** and create more than BU for the southern Illinois region.

*May 31, 2023*

*Liberty, North Carolina*

### [Toyota Ramps Up Commitment to Electrification with U.S. BEV Production and Additional Battery Plant Investment](#)

Advancing its commitment to vehicle electrification and building where it sells, Toyota will assemble an all-new, three-row, battery electric SUV at Toyota Kentucky starting in 2025. The company's first U.S.-assembled BEV will be powered by batteries from Toyota North Carolina. The new battery plant, which is currently under construction, will receive an additional **\$2.1 billion** investment to support the company's drive toward carbon neutrality.

*May 26, 2023*

*Alabama, New York*

### [Plug Power plans \\$387 million STAMP plant expansion](#)

Plug Power is planning a **\$387 million** expansion of its "green hydrogen" fuel cell plant under construction in Genesee County...The expansion is on top of the \$291 million investment the company is making in a facility it is building in the Science, Technology and Advanced Manufacturing Park, or STAMP, in the Town of Alabama. The project's total value is now \$678 million.



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Plug Power plans to create **19 jobs** with the expansion, in addition to the 68 jobs previously announced. The Power Authority said the jobs tied to the expansion will average over \$95,000 per year in wages and benefits.

May 23, 2023

Statesboro, Georgia

**[Gov. Kemp: Automotive Supplier Hanon Systems to Create 160 New Jobs in Bulloch County](#)**

While on an economic development trip to Israel, Governor Brian P. Kemp today announced that Hanon Systems, a global provider of automotive thermal and energy management solutions, will create **160 new jobs** and invest more than **\$40 million** in a new manufacturing facility in Bulloch County.

Formed in 1986, the company known as Hanon Systems has grown into a leading supplier of automotive thermal and energy management solutions for electrified and conventional vehicles. Its offering includes a wide range of solutions in the areas of heating ventilation and air conditioning; powertrain cooling; compressor; fluid transport; and electronics and fluid pressure.

May 23, 2023

Schenectady, New York

**[Gov. Kemp: Automotive Supplier Hanon Systems to Create 160 New Jobs in Bulloch County](#)**

GE Vernova today announced that it will invest **\$50 million** at its Schenectady, NY, facility and hire approximately **200 new full-time employees** including skilled union operators, manufacturing engineers, and front line leadership to establish a new manufacturing assembly line for its onshore wind business. The site will assemble three key components for GE Vernova's 6.1 MW turbine.

GE Vernova will assemble critical components for 6.1-158 onshore wind turbine in Schenectady, including the machine head, hub and drive train to help meet demand in the US...GE Vernova has received nearly 10 GW of orders and amassed more than 4 million operating hours globally for this turbine platform. The Onshore Wind business has been the number one provider of onshore wind turbines in the United States for the last five years according to the American Clean Power Association, and currently has a fleet of more than 54,000 wind turbines installed around the world.

May 23, 2023

Charlotte, North Carolina

**[Italian Tech Company to Create 300 Jobs in Mecklenburg County as New U.S. Headquarters for EV Charging Operations](#)**

alpitronic Americas LLC, a manufacturer of high-power electric vehicle charging stations, will create **300 new jobs** in Mecklenburg County, Governor Roy Cooper announced today. The



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company will invest more than **\$18.3 million** to locate its United States headquarters operation and service center in Charlotte.

Founded in Bolzano, Italy in 2009, alpitronic is the developer and producer of the hypercharger, a high-power DC charging station, which recharges vehicles with up to 400kW. As a market leader in Europe, the company develops and manufactures proprietary hardware and creates its own software. In addition to its administrative operations, the alpitronic Americas headquarters will operate a technology, test, and repair center to service its EV charging stations within its 70,000-square-foot space.

*May 22, 2023*

*Inola, Oklahoma*

### **ENEL SELECTS OKLAHOMA AS SITE FOR PLANNED SOLAR PV CELL & PANEL MANUFACTURING FACILITY**

Enel North America, through its affiliate 3Sun USA, LLC, today announced that it has selected Inola, Oklahoma as the location where it plans to site its industrial-scale manufacturing facility for innovative, sustainable and American-made photovoltaic (PV) cells and modules....The factory, which is expected to have an annual production capacity of 3 gigawatts (GW), represents an initial investment in excess of **1 billion USD** and is anticipated to create around 1,000 new direct permanent jobs by 2025. Construction is expected to begin in the fall of 2023, subject to final approvals, necessary permits and economic incentive agreements, and it's anticipated that the first panels will be available to the market by the end of 2024. The project includes the potential for a second phase that would scale the factory to reach 6 GW of annual production, creating an additional **900 new direct jobs**.

Enel North America, part of the Enel Group, is a clean energy leader in North America and is working to electrify the economy and build a zero carbon future by decarbonizing energy supply, electrifying transportation, creating resilient grids, and promoting a just, equitable transition. Enel North America serves over 4,500 businesses, utilities, and cities through renewable power generation, demand response, distributed energy resources, smart e-mobility solutions and services, energy trading, advisory and consulting services, and more.

*May 18, 2023*

*Memphis, Tennessee*

### **Nextracker, MSS Steel Tubes USA Join Forces on New Factory**

Nextracker Inc., a provider of utility-scale solar trackers, and MSS Steel Tubes USA – a joint venture of Portuguese industrial company Metalogalva and Brazilian steelmaker Soufer – have commissioned a new factory to manufacture low-carbon steel components for Nextracker's solar tracking systems.

Based in Memphis, Tenn., the facility will manufacture Nextracker steel torque tubes, creating **129 jobs** and generating millions of dollars in local economic investment.



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May 18, 2023

Bainbridge, Georgia

**Anovion's \$800 Million Georgia Plant Aimed at Securing U.S. Graphite Supply**

The only commercial producer of synthetic graphite in North America is putting an **\$800 million** plant in Georgia as the U.S. ramps up efforts to reduce dependence on China for the key battery material.

Chicago-based Anovion Battery Materials announced the investment in Bainbridge this week as the race for the critical minerals powering electric-vehicle batteries continues to heat up globally. The 1.5 million-square-foot plant will employ **400 people**.

May 15, 2023

Clarksville, Arkansas

**500-MW Hydrogen Power Plant Planned in Arkansas**

Officials in Clarksville on May 12 signed an agreement with Syntex Industries, part of SyntexNRG, to design and build the Syntex Hydrogen Power Plant. The current timeline for the project calls for at least limited power generation to begin in 2025, with the plant completed in 2026.... Plans call an initial investment of more than **\$250 million** in the first 50-MW phase of the project, with the facility expected to have more than 500 MW of generation capacity when complete, according to officials.

May 9, 2023

Milwaukee, Wisconsin

**Ingeteam expands US EV charger production as it gears up for NEVI**

Ingeteam, an electrical engineering company headquartered in Spain, has revealed plans to expand its production facility in Milwaukee, Wisconsin. The investment, totalling over **\$20m**, will bring the company's output in line with recent infrastructure funding.... Jesus Rodriguez, Executive Vice President of Ingeteam EV Chargers USA, stated that "this significant investment, in addition to the more than \$20 million already invested in our cutting-edge manufacturing plant since 2010, will add up to **one hundred new** well-paying jobs to the region and our production facility in Milwaukee, WI over the next five years."

The company, founded in Spain in 1972, has supplied electronics solutions across various industries. In recent years, Ingeteam has expanded its focus on the EV charging market and has a presence in Europe, Asia, and the Americas.

May 9, 2023

Huntersville, North Carolina

**Governor Cooper Announces 205 New Jobs as EV Charging Company Expands in Mecklenburg County**

Atom Power, the pioneer in networked energy, will expand its headquarters and manufacturing operations in Mecklenburg County, creating **205 jobs**, Governor Roy Cooper announced today. The company will invest nearly **\$4.2 million** in Huntersville.



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Atom Power created networked energy, the new standard for an electrified world. The company's unified platform connects everything and everyone to amplify value for all. Through Atom EV, the company is reinventing how electric vehicles charge. The company's purpose is to inspire possibilities, build trust, and deliver amazing. Atom Power is headquartered in Huntersville, North Carolina.

*May 4, 2023*

*Devens, Massachusetts*

### [Governor Cooper Announces 205 New Jobs as EV Charging Company Expands in Mecklenburg County](#)

BOSTON--(BUSINESS WIRE)--Electric Hydrogen Co. ("EH2"), a manufacturer of advanced, industrial-scale hydrogen electrolyzer technology, announced today the location of its first factory in Devens, Massachusetts. The company has leased a newly constructed 187,000 ft<sup>2</sup> facility and is now hiring production team members. The Devens factory will have an annual manufacturing capacity of 1.2GW with production of EH2's 100MW green hydrogen electrolyzers commencing in Q1 2024.

Electric Hydrogen is a deep decarbonization company pioneering new technology for low-cost and efficient green hydrogen systems. Focusing on industrial applications of hydrogen such as steel, ammonia and freight transport, EH2's goal is to help eliminate more than 30% of global GHG emissions from hard-to-electrify industries. The company is backed by world-class investors like Breakthrough Energy Ventures, Capricorn Investment Group, Energy Impact Partners, Fifth Wall Climate Tech, Prelude Ventures and S2G Ventures. The company also partners with strategic investors leading their target sectors, including Equinor Ventures, Mitsubishi Heavy Industries and Rio Tinto, among others. Electric Hydrogen has a team of over 200 employees and is based out of Natick, MA and San Carlos, CA.

*May 3, 2023*

*Michigan*

### [Michigan to get \\$400 million hydrogen technology facility from Norwegian company](#)

A Norwegian company will build a **\$400 million** hydrogen technology facility in Michigan, Gov. Gretchen Whitmer and Commerce Secretary Gina Raimondo said Wednesday. The project from Nel Hydrogen, intended to produce renewable hydrogen, would be the largest of its kind in the country and is expected to create **500 jobs** at a still-undecided site in southeast Michigan. Nel CEO Håkon Volldal said the company had decided to build another plant in the United States because of new federal incentives passed through the Inflation Reduction Act.



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April 27, 2023

Shepherdsville, Kentucky

**[\\$10M Rivian remanufacturing facility to create 218 jobs in Sheherdsville](#)**

EV-maker Rivian announced they would invest **\$10 million** to establish a remanufacturing facility in Bullitt County, creating **218 full-time, quality jobs**.

“Kentucky’s manufacturing and EV industries have seen unprecedented growth recently,” said Gov. Beshear. “Continued investment in our key industries is critical for our immediate and long-term economic success. Rivian is an outstanding company that has been a major player in our state’s manufacturing and EV sectors, and this expansion is an exciting next step for the company here in the commonwealth. I look forward to their continued success here.”

Rivian currently stocks replacement parts at an existing 326,000-square-foot facility in Shepherdsville. This project will see the company improve and update the existing operation to establish a robust remanufacturing facility to support the warranty, repair and service footprint of the company’s EV trucks. The investment will help expand the capability and capacity of this existing site to remanufacture critical components such as electrical hardware, drive units and battery systems.

April 26, 2023

Shreveport, Louisiana

**[Prolec GE USA is expanding their footprint in Shreveport by \\$28.5 million](#)**

On Tuesday, Prolec GE USA announced it would be investing up to **\$28.5 million** to expand its Caddo Parish facility to manufacture electrical transformers used in wind farms, solar parks and other industrial and renewable energy applications.

Prolec is one of the largest transformer productions in North America and designs, manufactures and sells products for electricity generation, transmission and distribution.

This expansion will add additional production capacity in Shreveport and will help ease the transformer supply chain.

Sergio Eduardo Fernandez, Prolec Business Unit Director said, "this investment, we are excited because we are creating **153 more jobs**."

April 26, 2023

Roseville, California

**[Bosch to acquire TSI semiconductors, injecting \\$1.5B to meet SiC chip demand for EVs](#)**

The world’s largest auto supplier is expanding its semiconductor manufacturing capabilities to meet the growing demand for computer chips for electric vehicles. Bosch announced Wednesday that it is acquiring US chipmaker TSI Semiconductor and investing **\$1.5 billion** to produce silicon carbide (SiC) semiconductors and enable the adoption of EVs.





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Bosch has been busy transforming its business as the auto industry shifts to sustainable, zero-emission EVs.

Bosch has invested heavily in introducing new products such as electric powertrains, charging solutions, and electric drives to meet the growing demand for EVs and enable the transition.

*April 26, 2023*

*Williamsport, Pennsylvania*

### **[Invenergy Transmission and Prysmian Announce Long-Term Supply Agreement and Manufacturing Facility Expansion](#)**

Prysmian Group North America - a world leader in energy and telecommunications cable systems - and Invenergy Transmission- an affiliate of American-led Invenergy, the leading privately-held developer, owner, and operator of sustainable energy solutions - today announced a long-term supply agreement that includes a **\$22.5 million** investment to expand domestic manufacturing capacity of advanced transmission conductor technology. The expansion of Prysmian's existing manufacturing facility in Williamsport, Pennsylvania, funded in substantial part by the supply agreement with Invenergy Transmission, will create at least **27 new jobs** in Lycoming County, Pennsylvania and retain 407 jobs statewide, including 250 jobs at the project site.

Conductors are the metallic lines that electricity travels along on transmission infrastructure projects, and they are a critical technology for the reliability and resilience of the U.S. power grid. Through this long-term supply agreement, Prysmian will supply up to 12,500 miles of overhead conductor cable through 2029 to support Invenergy's portfolio of long-distance high-voltage direct-current (HVDC) transmission projects in the U.S. Invenergy Transmission expects the conductor order to support projects including the Grain Belt Express and New Mexico North Path lines. The 5,000-megawatt Grain Belt Express project will improve affordability and reliability for consumers across four vital U.S. power grids, including the regional grid that serves Pennsylvania, the PJM Interconnection.

"High-voltage direct current transmission has the potential to reshape our country's power grid by providing unmatched reliability and resilience," said Shashank Sane, executive vice president and head of transmission at Invenergy. "Through this long-term supply agreement with Prysmian, Invenergy Transmission is securing the best technology for our transmission projects to deliver electricity Americans can count on while also supporting U.S. manufacturing jobs and onshoring key parts of the clean energy supply chain."

*April 26, 2023*

*Williamsport, Pennsylvania*

### **[Vitro Enters into Agreement with First Solar for the Manufacture of Glass for American-Made Solar Panels](#)**



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Vitro S.A.B. de C.V. (BMV:VITROA), through its Vitro Architectural Glass business headquartered in Cheswick, PA, today announced that it has entered into an agreement with America's largest fully vertically integrated solar manufacturer, First Solar (NASDAQ: FSLR), to manufacture glass for the company's advanced thin film photovoltaic (PV) solar panels.

Vitro will invest a total of **\$93.6 million USD** to rebuild and modernize a production line at its Meadville Plant located in Cochranton, PA, to support First Solar's growing manufacturing footprint in the United States. The investment will also include the construction of offline production capabilities.

First Solar is a leading American solar technology company and global provider of responsibly produced eco-efficient solar modules advancing the fight against climate change. Developed at R&D labs in California and Ohio, the company's advanced thin film photovoltaic (PV) modules represent the next generation of solar technologies, providing a competitive, high-performance, lower-carbon alternative to conventional crystalline silicon PV panels.

*April 26, 2023*

*Sumter, South Carolina*

### **[SEM Wafertech Inc and Solar4America Technology, Inc. Establishing first South Carolina operations](#)**

SEM Wafertech Inc. (SEM Wafertech) and Solar4America Technology, Inc. (Solar4America), both 100% owned by SPI Energy Co., Ltd. (NASDAQ: SPI), a global renewable energy company, today announced plans to establish their first South Carolina operations in Sumter County. The **\$65.9 million** investment will create **300 new jobs**.

SEM Wafertech is a leading solar wafer manufacturer in the United States. The new facility will help meet the increasing need for locally sourced solar wafers as the demand for solar power continues to grow in the U.S. SEM Wafertech is targeting delivery and production of its first solar wafers in the U.S. by the end of 2023, with capacity ramping to three gigawatts by 2024.

Solar4America is a prime solar module manufacturing company that produces "Made in the USA" solar modules. In combination with its facility in Sacramento, California, the new South Carolina facility will allow Solar4America to manufacture a wider variety of solar panels for customers, with an aim to increase capacity to 2.4 gigawatts by the end of the year.

*April 25, 2023*

*Janesville, Wisconsin*

### **[Rock County and Alliant Energy team up in Janesville solar projects](#)**

Rock County and Alliant Energy are partnering to build two solar projects in Janesville, an effort that would offer more renewable energy access to area residents.



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The plan consists of a 2.25 megawatt community solar garden and a 1.4 megawatt customer-hosted project on nearly 22 acres. President of Alliant Energy's Wisconsin energy company David de Leon said the company was thankful to Rock County for helping launch the project.

“The Community Solar program is just one more way we can use our knowledge and resources to serve our customers while bringing them options and solutions to meet their needs,” de Leon said.

*April 24, 2023*

*Sparrows Point, Maryland*

### [Orsted unveils Maryland investment](#)

Orsted has confirmed plans to invest in Maryland's first offshore wind “advanced foundation component centre” at Tradepoint Atlantic in Baltimore County.

The \$14m Advanced Foundation Component Center brings Orsted's total investments at Tradepoint Atlantic to nearly \$30m.

The company committed **\$13.2m** in port upgrades at Tradepoint Atlantic as part of Maryland's first offshore wind staging centre.

*April 21, 2023*

*Jacksonville, Florida*

### [Jinko Solar awarded grant to expand Florida plant](#)

China-based solar panel manufacturer [Jinko Solar](#) is set to invest **\$52m** to expand its only US production facility, with the city of Jacksonville in the [US state of Florida](#) approving a grant for the project.

The Budget Review Committee of the Mayor of Jacksonville approved a ten-year grant of \$2.3m to Jinko Solar on 10 April, which will facilitate the project. Jacksonville City Council is scheduled to enact legislation for the grant on 25 April 2023.

The grant will cover half of the increase in ad valorem taxes (tax based on the assessed value of the factory) that Jinko Solar would need to pay over a ten-year period due to the plant expansion.

The existing 26,000m<sup>2</sup> manufacturing facility at Cecil Commerce Center in West Jacksonville was first opened in 2018 and employs 274 people. Jinko Solar says the expansion of the plant will create an additional **250 jobs** at the site.

*April 19, 2023*

*Seneca, South Carolina*



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### **BorgWarner to Expand South Carolina Facility, add 3GWh Battery Pack Production with \$42 Million Investment**

BorgWarner announced today its plan to invest **\$42 million** into the expansion of its Seneca, South Carolina production facility. The investment will be allocated to building and equipment upgrades as well as the development of new manufacturing lines, resulting in the production of 3GWh of annual battery module capacity in the U.S. and contributing to the growth of the company's battery module and pack production.

Over the course of three years, the expansion is expected to create approximately **122 jobs**, including production, technical support, manufacturing, engineering, maintenance and supporting function positions. To aid in the expansion, BorgWarner is working closely with the State of South Carolina as well as Oconee County.

“The ability to expand our existing BorgWarner operations producing energy-efficient, clean products is crucial as we continue to ‘Charge Forward’ toward our goal of enabling lower-emissions transportation,” said Volker Weng, Vice President and General Manager, BorgWarner Drivetrain and Battery Systems. “I want to thank the State of South Carolina and Oconee County for their support in further enabling the launch of new production processes at our Seneca facility, which will provide additional capacity to better meet U.S. customer demands for BorgWarner battery assemblies.”

Expansion of the facility is slated to begin in the second quarter of 2023, with an expected completion date of in the first half of 2024.

*April 18, 2023*

*Jackson, Tennessee*

### **6K Energy to Establish Battery Material Manufacturing Plant in Jackson**

Tennessee Gov. Bill Lee, Department of Economic and Community Development Commissioner Stuart McWhorter and 6K Energy officials announced today the company will invest in a full-scale PlusCAM™ battery material manufacturing plant in Jackson, Tennessee. 6K Energy will invest \$166 million in the plant for construction and equipment, expanding to **\$250 million** in future phases. The company will also use its recently announced \$50 million U.S. Department of Energy (DOE) grant opportunity for the factory placing the initial combined investment over \$200 million.

6K Energy, the cathode materials production division of 6K Inc., will create **230 new jobs** in Madison County to support operations at the new manufacturing plant. 6K Energy's PlusCAM factory will be the world's first UniMelt® plasma cathode plant, providing low cost, ultra-sustainable production of battery material for localized supply chains in the U.S.

Founded in 2014 and headquartered in North Andover, Massachusetts, 6K uses microwave plasma technology to develop advanced materials for industries, including electric vehicle manufacturing, renewable energy, aerospace and consumer electronics. With the addition of the



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Jackson facility, 6K will employ nearly 500 people across its operations in Massachusetts, Pennsylvania and Tennessee.

*April 12, 2023*  
*Atlanta, Georgia*

**India's Rayzon Solar to make TOPCon modules in US**

Gujarat-based Rayzon Solar has become the first Indian PV manufacturer to expand its module manufacturing operations to the United States. The company said it plans to set up a 500 MW TOPCon module manufacturing facility in Atlanta, Georgia. It said it expects the factory to start production by June 2024.

Rayzon's entry to the US market comes at a time when Indian PV module exports to other countries, especially the United States, have started to surge. Chirag Nakrani, the director of Rayzon Solar, told pv magazine that the company's decision to enter the US solar market was mostly driven by the country's PV installation potential.

*April 12, 2023*  
*St. Louis, Missouri*

**\$100M solar panel production plant planned in STL area**

A manufacturing company is planning to open a **\$100 million** solar panel production plant in the St. Louis area.

NewCo. Manufacturing currently is seeking a site with the help of regional business group Greater St. Louis Inc.

The plans call for **250 new full-time jobs**.

*April 11, 2023*  
*Liberty County, Georgia*

**Seohan Auto Georgia Announces 180 New Jobs in Liberty County**

Governor Brian P. Kemp today announced that Seohan Auto Georgia, a developer and manufacturer of automobile parts, will create at least **180 new jobs** and invest more than **\$72 million** in a new manufacturing facility in Liberty County.

“The Hyundai Metaplant is and will continue to be an economic driver for the entire region, creating more jobs for hardworking Georgians in communities like Liberty County,” said Governor Brian Kemp. “We're proud to welcome Seohan as the latest supplier in a growing list to invest in Georgia and look forward to the continued growth of this fast emerging sector.”



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Seohan Auto Georgia Corporation is a Tier-1 automotive parts supplier for Hyundai Motor Group America. The company is based in South Korea and has production facilities around the world, including multiple facilities in the United States.

April 6, 2023

Alexandria, Louisiana

### [UCore invests \\$75M to establish Rare Earth Metals manufacturing facility in Alexandria](#)

Ucore North America, a subsidiary of Ucore Rare Metals Inc., announced it is investing **\$75 million** to establish North America's first modern technology rare earth element separation and purification facility in Rapides Parish. The Louisiana Strategic Metals Complex will establish a U.S.-based supply chain of rare earth oxides required to manufacture electric vehicle motors, wind turbine generators and a variety of consumer goods including smart phones and power tools.

The company expects to create **100 new direct jobs** with an average annual salary of more than \$50,000. Louisiana Economic Development estimates the project will result in 298 additional new indirect jobs, for a total of 398 new jobs in the Central Region.

“This major manufacturing project in central Louisiana is another illustration of how the shift toward cleaner energy is creating jobs and increasing investment all across our state,” Gov. John Bel Edwards said. “The products manufactured at Ucore will reinforce Louisiana’s importance to the global supply chain as we look to further diversify and expand our economy.”

April 5, 2023

Huntsville, Alabama

### [Alabama Toyota facility adding solar field to power up to 70% of operation](#)

An auto manufacturing plant in Huntsville has plans to use more renewable energy.

Toyota Motor Manufacturing Alabama Inc. builds thousands of automobile engines a day at its Huntsville plant.

Soon, 70% of the energy used to power the facility will come from solar power.

Wednesday, Toyota Alabama announced it will be building a 168-acre solar farm, adjacent to the Huntsville plant off of Pulaski Pike.

“We want to create a model of environmental stewardship in manufacturing and positively impact the world around us,” said Jason Puckett, the president of Toyota Alabama.

The **\$49 million dollar** solar project is a partnership between Toyota Alabama, Huntsville Utilities, and Toyota Tsusho America Inc. (TAI). The organizations entered a power purchase agreement to support the project.



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*April 4, 2023*  
*Detroit, Michigan*

### **[BorgWarner Expands Auburn Hills-Dearborn-Hazel Park, Michigan, Operations](#)**

BorgWarner, a global provider of sustainable mobility solutions for the automotive market, plans to expand operations in Auburn Hills, Dearborn, and Hazel Park, Michigan. The **\$20.6 million** project is expected to create **186 jobs**.

The company will accelerate its electric vehicle product development and testing, including battery modules, battery packs, and DC fast chargers; as well as scale up its DC fast charging manufacturing operations. The investment also includes an expansion at a fourth, yet-to-be-determined location across Oakland and Wayne counties.

“BorgWarner is pleased to continue to invest in the State of Michigan with the support of MEDC, growing our fast charging and battery capabilities to support the evolution to electrification,” said BorgWarner President and Chief Executive Officer Frédéric B. Lissalde.

*April 3, 2023*  
*Albuquerque, New Mexico*

### **[ABB Invests \\$40M for Manufacturing Facility in Albuquerque](#)**

ABB is investing **\$40 million** to create a new manufacturing facility in Albuquerque, NM, for its Installation Products Division, which is part of the company’s Electrification business area.

ABB’s new 90,000-square-foot facility will create **55 new jobs** in New Mexico and produce cable products for use by electric utility providers in grid hardening and resiliency initiatives.

The new facility will cater to increased demand for its leading Elastimold solutions essential to wildfire mitigation and underground and grid hardening projects. Upon completion in 2024, the Albuquerque facility will include ABB Robotics technology and digital automation to produce more than 1 million additional units annually. Majority of the units produced will be supplied to U.S. customers.

*March 30, 2023*  
*Williamsport, Pennsylvania*

### **[Magna planning new \\$100M Auburn Hills EV seating plant with 500 jobs](#)**

Magna International Inc. is planning a new plant in Auburn Hills that would supply seats for future General Motors Co. electric vehicles, the Canadian auto supplier said on Thursday. The potentially more than **\$100 million investment** is expected to create **500 new jobs**, spokeswoman Tracy Fuerst said in a statement. It would replace the former Oakland County Animal Shelter and Pet Adoption Center at 1700 Brown Road that sits on 40.8 acres, according to an Auburn Hills Planning Commission document. Construction is expected to begin in July and be completed in November 2024.... Magna's proposed facility would be the "exclusive supplier of seating" for vehicles in Orion, according to the planning document.



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*March 30, 2023*

*Hopkinsville, Kentucky*

**[EV-related company plans \\$500 million facility in Hopkinsville, Kentucky](#)**

Microvast Advanced Membranes says it will bring **562 full time jobs** and build a **\$500 million** facility at a site in Hopkinsville, Kentucky.

Hopkinsville Mayor James Knight said the investment will have a positive economic impact on the city and surrounding region. “Their Commerce Park II facility will serve as a flagship facility providing critical battery separators for the quickly growing EV battery market. We are thrilled that they’ve chosen to invest in our community thereby creating hundreds of outstanding jobs,” Knight said in the release.

*March 24, 2023*

*Shelby County, Kentucky*

**[New \\$264M manufacturing facility, EnerVenue, coming to Shelby County](#)**

Gov. Andy Beshear announced Tuesday continued job creation within Kentucky’s manufacturing and clean energy sectors as EnerVenue will establish a new manufacturing facility in Shelby County, creating **450 full-time jobs** with a **\$264 million** Phase 1 investment with potential for further investment.

“Our skilled workforce and communities working together to foster continued growth have made the economic momentum the commonwealth is experiencing possible. For a company like EnerVenue to come in, invest and create jobs in Shelby County is an exciting next step for our manufacturing and energy storage sectors,” said Beshear. “I want to thank the company’s leadership and the Shelby County community for making this project possible, and I look forward to the company’s success in Kentucky.”

*March 24, 2023*

*Yuma County, Arizona*

**[Arizona county approves solar-powered cobalt sulfate production facility](#)**

EVelution Energy, an electric vehicle battery materials company, has received the approval of the Yuma County Board of Supervisors to develop a solar-powered cobalt sulfate production facility in Yuma County, Ariz., the first EV battery facility with on-site renewable energy generation in the U.S... EVelution expects to start construction of the processing facility in 2024 and expects to be fully operational by 2026, when it will have **360 full-time employees**, the company has stated... “We expect that the surrounding agricultural community will benefit will from having access to our locally generated low cost clean power,” he said, adding that EVelution’s facility is expected to cost about **\$200 million** to build.

*March 23, 2023*

*Elgin, Illinois*





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### [Pritzker Administration and Flender Corporation Announce Manufacturing Expansion in Elgin](#)

Governor JB Pritzker, Flender Corporation and the Illinois Department of Commerce and Economic Opportunity (DCEO) today announced that Flender will expand its current manufacturing facility in Elgin - creating **50 new full-time jobs** and retaining 140 existing full-time jobs. New investments will enable the company to expand its manufacturing operations - including gear boxes for wind turbines - creating jobs and contributing to the economic development in the community.

Flender headquartered in Bocholt, Germany, is a leading global supplier for mechanical and electrical drive systems and has the reputation for highest performance, innovation, quality, and reliability of drive components for more than 120 years. Flender has around 9,000 employees globally. Since 1976 the company is serving the Americas from its location in Elgin, Illinois. Flender offers a broad variety of gear units, couplings and generators and associated services, with a focus on key industries such as wind power, cement, mining, oil & gas, power generation, water and wastewater, marine, conveyor and crane technology.

*March 24, 2023*

*Queen Creek, Arizona*

### [Korean battery giant LG announces huge expansion of plans for battery factory in Queen Creek](#)

LG Energy Solution said it will quadruple its initial budget for a battery manufacturing plant in Queen Creek and now plans to spend **\$5.5 billion** for the project, which will create thousands of jobs and could become the largest stand-alone battery complex in North America... Sen. Mark Kelly, D-Ariz., said the announcement will support thousands of well-paying jobs and boost the state's position as a leader in manufacturing and renewable energy. "Thanks to unprecedented federal investments in American-made clean energy manufacturing, Arizonans will see stronger supply chains, lower costs and a more competitive economy for the generations to come," he said.

The **\$5.5 billion** figure is nearly four times LG's initial announcement of a \$1.4 billion investment for the Queen Creek complex, disclosed last April. The company plans to invest \$3.2 billion for EV batteries and \$2.3 billion for "pouch type" lithium iron phosphate batteries for energy storage systems.

*March 22, 2023*

*Columbia, South Carolina*

### [Cirba Solutions to Build World-Class EV Battery Materials Facility in South Carolina](#)

Cirba Solutions, the most trusted and comprehensive battery materials and management company for end-of-life batteries and gigafactory scrap, announced today a phase I investment of more than **\$300 million** into a world-class, lithium-ion electric vehicle (EV) battery recycling flagship facility in South Carolina. With over 30 years of experience, Cirba Solutions has paved the way for a sustainable closed-loop battery supply chain. The company is investing over \$1 billion in the next five years to expand the infrastructure required to meet the growing demand for critical materials needed for EV batteries....The over 200-acre battery materials campus will



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create more than **300 jobs** and be located near Columbia, South Carolina in Richland County. Groundbreaking will take place this year, with operations expected to begin in late 2024.

*March 22, 2023*

*Chester County, South Carolina*

### **Albemarle to invest \$1.3B in South Carolina lithium processing facility**

Chemical manufacturer Albemarle will invest **\$1.3 billion** to establish a lithium hydroxide processing facility in Chester County, South Carolina. The facility would produce nearly 50,000 metric tons of battery-grade lithium hydroxide a year, enough to support 2.4 million EVs....The company says the facility will create **300 jobs** with an average yearly wage of \$93,000. In addition, the project will create over 1,500 construction jobs, with work expected to begin in late 2024.

*March 22, 2023*

*Cartersville, Georgia*

### **Albemarle to invest \$1.3B in South Carolina lithium processing facility**

Governor Brian P. Kemp today announced that Hanwha Advanced Materials Georgia, Inc. (HAGA), a manufacturer of lightweight advanced materials for sustainable technology, will create more than **160 new jobs** in the City of Cartersville. The company will invest an estimated **\$147 million** in a new manufacturing facility to supply the Qcells facility in Cartersville.

Qcells is one of the world's leading clean energy companies, recognized for its established reputation as a manufacturer of high-performance, high-quality solar cells and modules, portfolio of intelligent storage systems, and growing international pipeline of large-scale renewable energy projects. Qcells also provides renewable electricity retail services and packages to end customers the world over.

*March 20, 2023*

*Terre Haute, Indiana*

### **ENTEK ANNOUNCES LOCATION OF FIRST LITHIUM BATTERY SEPARATOR PLANT IN INDIANA TO POWER GROWING DOMESTIC ELECTRIC VEHICLE MARKET**

ENTEK, the only US-owned and US-based producer of 'wet-process' lithium-ion battery separator materials, announced plans today to establish operations in Indiana, investing **\$1.5 billion** in a new Terre Haute production facility. The project, which marks the company's largest investment thus far, will create up to **642 new, high-wage jobs** by the end of 2027 and support the growing electric vehicle (EV) industry in Indiana and across the United States.

ENTEK, established in 1984, is the only US-owned and US-based producer of 'wet-process' lithium-ion battery separator materials and is committed to the transformational expansion of its US lithium-ion battery separator footprint at a scale and a pace to meet the US DOE imperative for a sustainable and resilient domestic lithium battery supply chain. In addition to its energy



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storage division, which includes production of battery separators for lithium-ion and lead-acid batteries, ENTEK also manufactures equipment for the plastics industry and creates high-performance materials for a broad range of energy storage and functional membrane applications.

*March 16, 2023*

*Lordstown, Ohio and Mount Pleasant, Wisconsin*

### [Foxconn brings EV battery production to two U.S. states](#)

Foxconn, the iPhone manufacturer that bailed out Lordstown Motors from bankruptcy, announced that it would build electric vehicle batteries in Wisconsin and Ohio on Thursday, hoping to take advantage of the Inflation Reduction Act that incentivizes domestic cell manufacturing. Foxconn has long been the manufacturer of Apple's iPhone, and in 2021, it became a staple in the EV space as it announced it would work with Lordstown Motors.... The move highlights companies bringing EV battery production to the U.S. in an effort to receive tax credits that are part of the Inflation Reduction Act. Local cell production is one of the key requirements of qualifying for at least a portion of the incentives is to build batteries in the United States.

*March 16, 2023*

*Texas*

### [HydrogenPro US expansion with 500 MW manufacturing facility in Texas, US](#)

HydrogenPro (NYSE: HYPRO) will take its first major step into the US market with the establishment of 500 MW manufacturing capacity in Texas, US, with an estimated total investment cost of **USD 30-50 million**. The brownfield investment includes a separate advanced electrode manufacturing facility, representing a technology game changer in the HydrogenPro solutions offering.

HydrogenPro is a technology company and an OEM for high pressure alkaline electrolyser and supplies large scale green hydrogen plants, all ISO 9001, ISO 45001 and ISO 14001 certified. The Company was founded in 2013 by individuals with background from the electrolysis industry which was established in Telemark, Norway by Norsk Hydro in 1927.

*March 14, 2023*

*Belen, New Mexico*

### [Arcosa chooses New Mexico for new wind-tower production facility](#)

Belen will get a big economic boost with the expansion of a wind-tower manufacturer into the area, one that will add roughly **250 jobs**. Texas-based Arcosa Inc. announced Tuesday its subsidiary, Arcosa Wind Towers, will open a wind-tower production facility in Belen with production to begin as soon as next year.... Arcosa, a publicly traded company, plans to invest **\$55 million to \$60 million** in the expansion, which includes the purchase and modification of an existing facility in the Rio Grande Industrial Park and the procurement of needed equipment.



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Gov. Michelle Lujan Grisham has long identified sustainable energy as an industry ripe for further growth - an area which she believes can attract higher-paying jobs for New Mexicans.

*March 13, 2023*

*Orangeburg, South Carolina*

### [Global solar panel manufacturer creating jobs with new plant in Orangeburg County](#)

Hounen Solar announced plans to invest **\$33 million** in a new manufacturing operations facility that will create 200 new jobs. The plant is located at 145 Millennium Drive, the company will be leasing a 200,720-square-foot plant. The plant will not only be the first United States plant for Hounen Solar but also the first South Carolina location for the company.... Governor Henry McMaster said “Hounen’s investment in Orangeburg County not only adds to the state’s growing renewable energy economy but also shows that South Carolina is a place where companies in every industry can thrive. We look forward to creating a strong partnership with Hounen for years to come and seeing the impact of these **200 new jobs**.”

*March 12, 2023*

*Avondale, Louisiana*

### [Gulf Wind Technology and Shell Collaborate to Establish Offshore Wind Energy Hub at Avondale Global Gateway](#)

In an effort to advance offshore wind energy technology and expand the emerging industry’s skilled workforce, Gulf Wind Technology announced today it is collaborating with Shell to establish a research, training and technology demonstration program at GWT’s Avondale Global Gateway facility in Jefferson Parish....GWT, supported by a **\$10 million** investment from Shell, will create **30 new direct jobs** with an average annual salary of \$83,000. Louisiana Economic Development estimates the project will result in an additional 54 new indirect jobs, for a total of 84 new jobs in the Southeast Region.

Based in the redeveloped industrial park on the site of the old Avondale Shipyard, GWT is a globally recognized expert in wind turbine rotor technology. Its headquarters consists of a 30,000 square foot technology facility, an advanced composites lab and access to more than 1.5 million square feet of manufacturing and fabrication space with on-site railway, road and barge access.

*March 10, 2023*

*Hutchison, Kansas*

### [Siemens Gamesa is opening its doors back up in Hutchinson](#)

The Siemens Gamesa Hutchinson plant is gearing up to open once again. Siemens Gamesa Renewable Energy has begun the process to return the Hutchinson, Kansas nacelle facility to production. The planned facility will be located at the Port of Coeymans and would create approximately **420 jobs** in the Empire State and contribute to a significant part of the United States’ target of offshore wind power by 2030.



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Siemens Gamesa, which started in Denmark but has its company headquarters in Spain, is a pioneer in the development and expansion of onshore wind energy. With more than 40 years of manufacturing experience in wind turbines, the company has placed their turbines in more than 90 countries across the globe, from Denmark to France to Germany to Taiwan.

*March 9, 2023*

*Bristol, Vermont*

### [\*\*Bullrock Renewables to build 3.3 megawatt Bristol Solar project\*\*](#)

Vermont-based Bullrock Renewables announced today it is building a 3.3 megawatt "SPEED project" in Bristol. The project, dubbed "Bristol Solar," is slated to be operational this October. In the coming months, **12 full-time employees** will be dedicated to constructing the ground mount array.

The South Burlington-based company was founded in Vermont in 2017; in addition to advancing solar projects in Vermont, the renewable energy construction firm has developed a wide range of solar projects throughout the region, including sites in Connecticut, New York, and Maine.

*March 9, 2023*

*Pataskala, Ohio*

### [\*\*The world's largest solar panel manufacturer is coming to Ohio\*\*](#)

Longi Solar and Invenergy are coming together to construct a 5 GW per year solar panel manufacturing facility in Pataskala, Ohio, via a newly founded company, Illuminate USA...the acquisition and construction of the facility will cost \$220 million. Invenergy notes they made a **\$600 million** investment in the facility. Invenergy is noted as being the facility's 'anchor' customer. Longi is the world's largest manufacturer of solar modules. Invenergy has an operating portfolio of 775 MW of solar facilities, and has 6 GW currently under development. Invenergy has developed approximately 10% of the United States' wind and solar power fleet... the facility will generate **150 jobs**. Once it is running, it will require 850 individuals to keep it going. Both single and bifacial solar modules will be manufactured at the site.

*March 8, 2023*

*Charlotte, Michigan*

### [\*\*The Shyft Group invests in Michigan facility to support Blue Arc EV production\*\*](#)

The Shyft Group recently announced plans to invest in and expand the company's facilities in Charlotte, Mich., which will enable production of commercial electric vehicles for its Blue Arc EV Solutions brand, launched last year. The company noted in a recent press release that Shyft will invest approximately **\$16 million** for expansion and improvements in facilities as well as new equipment related to the production of EVs.

*March 8, 2023*

*Lowell, Massachusetts*

### [\*\*EvolOH announces plans for massive electrolyzer plant in Massachusetts\*\*](#)



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EvolOH, Inc. (Menlo Park, Calif) will build a manufacturing plant in Massachusetts for the fabrication and assembly of the company's anion-exchange membrane (AEM) electrolyzer stacks for producing green hydrogen. The proprietary compact cell-stacking and high-power density design used in EvolOH's Nautilus series stacks were created for high-speed manufacturing using low-cost materials that only require domestic supply chains and no precious metals.... When operated using pure water, EvolOH's electrolyzers provide the lowest capital and operating costs for green hydrogen production. With power ratings up to 5 MW (2 tonnes per day) for a single stack, and 50 MW (20 tons per day) for a single containerized module, EvolOH's stacks are designed for large-scale power-to-hydrogen facilities.

*March 7, 2023*

*Savannah, Georgia*

### [Hyundai supplier PHA to invest over \\$67M in GA facility](#)

Governor Brian P. Kemp announced that PHA, a global auto parts manufacturer that will supply the Hyundai Metaplant in Bryan County, will create **402 new jobs** and invest more than **\$67 million** in a new facility in Chatham County.

PHA strives to be a company that provides its customers with new experiences and value through customer satisfaction with perfect quality and innovation. Since its foundation in 1985, PHA has built on the commitment to becoming a pioneer in the global automotive parts industry. PHA believes that its employees are the key to the company's success, by pursuing the happiness of all concerned; including customers, employees, partners, and the local community; on the basis of sustainable growth. PHA operates in nine countries, with more than 3,300 employees worldwide, and \$750 million in revenue.

*March 7, 2023*

*Nowata County, Oklahoma*

### [COMPANY TO DEVELOP 45K ACRE WIND FARM IN NOWATA COUNTY](#)

A renewable energy company is revealing plans for a major project in Nowata County. Apex Clean Energy will lease 45,000 acres of land to develop a wind turbine farm in the north-central part of the county. It is called the Hickory Creek Project and includes between 100 and 150 wind turbines as well as solar and battery components. Apex said all together the project will produce 1,200 megawatts of electricity, which is enough to power 436,000 homes.... Apex said the wind portion of the project will cost about **\$900 million** and the additional work is estimated at **\$550 million**

*March 6, 2023*

*Brighton, Colorado*

### [Battery maker coming to Colorado](#)

A lithium-ion battery maker has chosen Adams County to make high-performance silicon anode lithium-ion batteries. Amprius Technologies said they chose the location in Brighton because there is a 1.3 million square foot facility already on the site. The facility is equipped "with



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electric power and has a structural layout ideal for a gigawatt-hour scale lithium-ion battery factory."

Amprius said they plan to invest **\$190 million**, which includes a \$50 million cost-sharing grant from the U.S. Department of Energy's Office of Manufacturing and Supply Chains. The grant is part of the bipartisan infrastructure law that would expand manufacturing of electric vehicle and electrical grid batteries in the U.S. The first part of the expansion is expected to create **332 new jobs**, the governor's office said in a release. The average salary for the new jobs would be more than \$65,500.

*March 3, 2023*

*Richland County, South Carolina*

### **Scout Motors selects South Carolina for production site; plans to create 4,000 jobs**

Scout Motors Inc. ("Scout") is establishing its first manufacturing plant in Blythewood, which is near Columbia, South Carolina. At the Richland County site, the company will build all-electric, next-generation trucks and rugged SUVs harkening back to the iconic Scout vehicles produced from 1960 to 1980. The company's **\$2 billion** investment has the potential to create **4,000** or more permanent jobs. At full capacity, more than 200,000 Scout vehicles may be produced annually at the facility.

*March 3, 2023*

*Astoria, New York*

### **Beacon Wind project will repower 'Asthma Alley' with renewable energy facility in Astoria**

Equinor Wind US and its partner bp in the US announced two major initiatives focused on western Queens: the **\$215 million** purchase of the Astoria Gas Turbines site from NRG to repurpose it as a converter station connecting renewable offshore wind power to the New York grid, and a substantial investment in community resources to serve the youth of Queens. The future converter station named the Astoria Gateway for Renewable Energy (AGRE) will replace the decades-old power plant that had polluted the air in "Asthma Alley" for generations.

*March 2, 2023*

*Pensacola, Florida*

### **GE to Invest Over \$450 Million in U.S. Manufacturing in 2023**

GE (NYSE: GE) today announced plans to invest more than \$450 million in its existing U.S. manufacturing facilities this year, purchasing cutting-edge equipment and making upgrades to position the company and its U.S. workforce for a strong future in advance of the company's planned creation of two independent, industry-leading companies in energy and aerospace.... **\$20 million** in nacelle manufacturing facilities in Pensacola, Florida to expand production capacity and bring new products to market.

*March 2, 2023*

*Houston, Texas*



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### [Green Giant Energy Texas and ACE Green Recycling Plan to Develop Lithium-ion Recycling Facility in Texas](#)

The two companies signed a non-binding LOI to form a joint venture (JV) that will develop and operate the recycling plant, which will be located on land purchased by GGE Texas who will also fund the build-out of the plant with a **\$3 million** investment. The JV will use ACE's proprietary technology and process for sustainably recycling lithium-ion batteries, including end-of-life batteries, rejected batteries and other defective batteries sourced from around the region. Once completed, the facility will incorporate ACE's modular equipment design to recycle an estimated 1,800 metric tons of lithium batteries per year... In addition to setting forth the blueprint to build a greenfield lithium-ion battery recycling facility through the JV, the LOI also stipulates GGE Texas will invest a separate **\$3 million** toward ACE's global operations.

*February 28, 2023*

*Wallingford, Connecticut*

### [Nel ASA: Expanding production capacity in Wallingford](#)

"This is an important milestone for Nel," says Nel's CEO, Håkon Volldal. "With this expansion, we will increase PEM production capacity substantially and simultaneously reduce stack cost and improve stack efficiency."

The investment cost is estimated at approximately **NOK 260 million (\$24.8 million)**, and the new production line is expected to reach nameplate capacity in 2025.

"Last year we opened the world's first fully automated alkaline electrolyser plant in Herøya, Norway. Now we will industrialize the PEM platform, and the expansion in Wallingford is an important first step," says Volldal.

*February 28, 2023*

*Kokomo, Indiana*

### [Stellantis to invest \\$155M in Indiana for electric drive units](#)

The maker of Jeep SUVs, Ram pickup trucks and other vehicles will invest a total of **\$155 million** in three plants in Kokomo, Indiana, to produce electric drive modules for battery electric vehicles in North America.

CEO Carlos Tavares announced the investment on Tuesday morning during CNBC's "Squawk Box." The EDMs include the electric motor, power electronics and transmission. Workers in Kokomo will combine them into a single package that Stellantis says improves performance, vehicle cost and range up to 500 miles. These EDMs will support the STLA (pronounced "Stella") Large and STLA Frame vehicle platforms that will underpin electric Jeep SUVs, Dodge muscle cars and the Ram 1500 REV truck.





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The investment will retain more than **265 jobs** across all three plants. Stellantis employs more than 7,000 people in Kokomo at powertrain components plants. The automaker is building a new battery manufacturing plant there with Korea's Samsung SDI. It aims for 50% EV sales by 2030 in the United States with 25 models.

*February 28, 2023*

*Bangor, Maine*

### **200 new jobs slated for Bangor after investment from green energy firm**

An environmental investment firm will infuse **\$6 million** into Brewer-based Nyle Systems to open a new factory in Bangor producing heat pump water heaters.

The expansion will bring approximately **200 new jobs** to the region in the coming years.

New York-based Aligned Climate Capital announced on Tuesday that it had made the investment, which will see Nyle open the factory this fall at 690 Maine Ave., a city-owned building that until 2021 housed a Wayfair customer service center.

*February 27, 2023*

*Clarksville, Tennessee*

### **EV battery supplier Dongwha Electrolyte to open \$70 million plant in Clarksville**

A company that produces electrolytes used in lithium batteries will open a **\$70 million** manufacturing plant in Clarksville, providing **68 jobs** that pay \$55,000 to \$150,000 per year... EV battery manufacturing is ramping up in Clarksville, with big announcements already from LG Chem and Microvast. Dongwha Electrolyte will be a supplier to Blue Oval City (Ford) SK Inc., Ultium Cells and LG Chem, said Buck Dellinger, CEO, Clarksville-Montgomery County EDC.

*February 26, 2023*

*Rochester, New York*

### **'This is the future': Li-Cycle awarded \$375M loan for Rochester facility**

Li-Cycle, a lithium-ion battery recycling company, announced that they have been awarded a \$375 million loan for the company's HUB facility in Rochester. The loan comes from the U.S. Department of Energy through the Advanced Technology Vehicles Manufacturing program in order to create **270 jobs** once the facility is completed and will create over 1,000 construction jobs.

*February 23, 2023*

*Lucedale, Mississippi*

### **Solar farm coming to George County set to generate more than just power**

The Sunflower Solar Project will generate enough power for more than 15,000 homes a year.



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“It’s supposed to be bringing in **300 construction workers**, and that’s going to be good for the city of Lucedale sales tax, but the whole project is going to benefit both city and county greatly, so we are 100% behind it,” said Mayor Doug Lee.

Pine Gate Renewal is bringing the project to George County. According to Vice President of Product Development Sean Anderson, this is a **\$115 million** investment.

*February 22, 2023*

*Decatur, Alabama*

### **Nucor plans \$125 million Alabama facility, creating 200 jobs**

Nucor Corp. plans to invest approximately **\$125 million** to open an advanced manufacturing facility in Alabama where a new business unit, Nucor Towers & Structures, will produce transmission towers, Governor Kay Ivey announced today... Nucor, which already has a significant presence in Alabama, has committed to creating **200 full-time jobs** at the facility in Decatur. The positions, which have an average annual compensation of \$75,000, will be filled over a four-year period.

Charlotte, North Carolina-based Nucor established the new business unit after its 2022 acquisition of Summit Utility Structures LLC and Sovereign Steel Manufacturing LLC, which produces metal poles and other steel structures for utility infrastructure and highway signage.

*February 22, 2023*

*Casa Grande, Arizona*

### **New lithium-ion battery recycling plant planned for Pinal County**

Ecobat, one of the largest battery recyclers globally, has made plans to locate its first North American battery recycling facility in the Phoenix metro and bring **60 new jobs** to the area. The company announced that the facility will be located in Casa Grande and is Dallas-based Ecobat's third lithium-ion battery recycling facility. The new location will produce an estimated 10,000 tons of recycled material per year with plans to expand capacity. Operations are expected to start in the third quarter of 2023.

*February 21, 2023*

*Mount Holly, North Carolina*

### **Duke Energy to mobilize first-of-its-kind microgrid-integrated fleet electrification center**

Duke Energy has announced it will build a first-of-its-kind performance center that will model and accelerate the development, testing and deployment of zero-emissions light-, medium- and heavy-duty commercial electric vehicle (EV) fleets. The site will be located at Duke Energy’s Mount Holly Technology and Innovation Center and will incorporate microgrid integration.

Duke Energy (NYSE: DUK), a Fortune 150 company headquartered in Charlotte, N.C., is one of America’s largest energy holding companies. Its electric utilities serve 8.2 million customers in North Carolina, South Carolina, Florida, Indiana, Ohio and Kentucky, and collectively own



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50,000 megawatts of energy capacity. Its natural gas unit serves 1.6 million customers in North Carolina, South Carolina, Tennessee, Ohio and Kentucky. The company employs 27,600 people

*February 21, 2023*

*Rincon, Georgia*

### **[Sewon America Announces 740 New Jobs in Effingham County](#)**

Governor Brian P. Kemp today announced that Sewon America, a subsidiary of Korean-based Sewon Precision Industry Co., will create **740 new jobs** in Rincon and invest more than **\$300 million** in a new Effingham County manufacturing facility. This project is the largest known private investment in the City of Rincon, to-date. This announcement also fulfills the commitment to create jobs and investment in all four of the Savannah Harbor Interstate-16 Joint Development Authority (JDA) counties as a result of Hyundai's Metaplant location in Bryan County - the largest economic development project in state history. Suppliers for the Metaplant have now committed over \$1.8 billion in investment, surpassing initial estimates by at least \$800 million.

Sewon America was established in 2008 in LaGrange, as a Georgia company. Sewon primarily operates in the Motor Vehicles and Car Bodies industry within the Transportation Equipment sector, producing stamped body components. Sewon Group is celebrated for its high-quality automotive parts and will continue its tradition of excellence in the new Rincon facility.

*February 20, 2023*

*Cope, South Carolina*

### **[\\$70M solar farm planned; construction starts in Cope in 2025](#)**

May Renewables LLC is planning to build a **\$70 million** solar farm and storage facility near Cope in Orangeburg County. The facility will have a 100 megawatt solar farm. It will include a 100 megawatt/400 megawatt battery energy storage system, Beaufort Rosemary LLC Managing Director Kevin Casey said.

The company is not anticipating the creation of new, ongoing jobs as a result of the project. Construction and maintenance jobs will be connected to the project.

May Renewables is owned by Renewco Power Holdings LLC. Beaufort Rosemary is the project developer.

*February 15, 2023*

*Lebanon, Tennessee*

### **[Tritium to Add 250+ Tennessee Jobs; Recognized for Safe and Sustainable Workplace at U.S. Factory](#)**

Tritium DCFC Limited ("Tritium" of the "Company") (Nasdaq: DCFC), a global leader in direct current ("DC") fast chargers for electric vehicles ("EVs"), today announced that the Company will be adding more than **250 jobs** to the total anticipated workforce at its Lebanon, Tennessee



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factory. The Company also shared the recent achievement of International Organization for Standardization (“ISO”) certifications at the facility.

Founded in 2001, Tritium (NASDAQ: DCFC) designs and manufactures proprietary hardware and software to create advanced and reliable DC fast chargers for electric vehicles. Tritium’s compact and robust chargers are designed to look great on Main Street and thrive in harsh conditions, through technology engineered to be easy to install, own, and use. Tritium is focused on continuous innovation in support of our customers around the world.

*February 13, 2023*

*Marshall, Michigan*

### **[Ford to build \\$3.5B battery plant at Marshall mega site](#)**

Ford Motor Co. plans to build a **\$3.5 billion** electric vehicle lithium-ion battery plant and create **2,500 jobs** in southwest Michigan.

Supported by \$246 million in state incentives, the Dearborn automaker will construct a sprawling 2.5 million-square-foot battery facility on 1,900 acres of farmland in Marshall pegged for development.

“At this plant, the team will build a new kind of factory. These batteries will be more affordable, incredibly durable and they’ll charge faster,” said Ford Executive Chair Bill Ford at a Monday, Feb. 13, press conference alongside state and local leaders.

*February 9, 2023*

*Sealy, Texas*

### **[FTC Solar Announces Solar Tracker Manufacturing Joint Venture](#)**

FTC Solar, Inc. (Nasdaq: FTCD), a leading global provider of solar tracker systems, software, and engineering services, and Taihua New Energy (Thailand) Co., LTD (“Taihua New Energy”), a leading steel fabricator, today announced a joint venture agreement for the creation of Alpha Steel LLC (“Alpha Steel”), a manufacturing partnership dedicated to producing steel components, including torque tubes, for utility-scale solar projects.

Founded in 2017 by a group of renewable energy industry veterans, FTC Solar is a leading provider of solar tracker systems, technology, software, and engineering services. Solar trackers significantly increase energy production at solar power installations by dynamically optimizing solar panel orientation to the sun. FTC Solar’s innovative tracker designs provide compelling performance and reliability, with an industry-leading installation cost-per-watt advantage.

*February 9, 2023*

*Rock Hill, South Carolina*

### **[405 jobs coming to Charlotte region as Pallidus brings \\$443M headquarters, semiconductor plant](#)**



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A manufacturer of semiconductors will relocate its corporate headquarters and open a manufacturing operations center in York County, South Carolina. In doing so, Pallidus will invest **\$443 million** in the region, with plans to add as many as **405 jobs** to the regional economy. The firm's new headquarters will be in Rock Hill, South Carolina, and the move is expected to enable the company to scale its capacity.

*February 9, 2023*

*McCarran, Nevada*

### **LPO Offers Conditional Commitment to Redwood Materials to Produce Critical Electric Vehicle Battery Components From Recycled Materials**

The U.S. Department of Energy's (DOE) Loan Programs Office (LPO) today announced a conditional loan commitment of **\$2 billion** to Redwood Materials for the construction and expansion of a battery materials campus in McCarran, Nevada that will support the growing electric vehicle (EV) market in America. Once fully operational, the project would be the first domestic facility to support production of anode copper foil and cathode active materials in a fully closed-loop lithium-ion battery manufacturing process by recycling end-of-life battery and production scrap and remanufacturing that feedstock into critical materials. Redwood Materials is expected to create approximately 3,400 good-paying construction jobs and employ approximately **1,600 full-time employees**, including labor, technical staff, and on-site management.

Redwood Materials' Nevada operation recycles end-of-life batteries from consumer electronics like cell phone batteries, laptop computers, power tools, and other electronic waste, remanufacturing these feedstocks into critical components that help support the domestic lithium-ion battery supply chain.

*February 8, 2023*

*Memphis, Tennessee*

### **Solar tube maker adds 129 jobs in Tennessee and more business news**

MSS Steel Tubes USA LLC officials announced Wednesday it will invest **\$6 million** to retrofit an existing facility in Memphis, which will create **129 new jobs**. Company officials said the Memphis location will position MSS Steel Tubes to better serve its U.S. customer base of solar panel manufacturers.

MSS Steel Tubes USA LLC is a subsidiary of MSS Steel Tubes SA, which is based in Portugal, with participation from Metalgalva Group, from Portugal, and Soufer Group, from Brazil.

*February 7, 2023*

*Durham County, North Carolina*

### **EV charger manufacturer doubles jobs commitment in Durham – now 601**

A manufacturer of electric vehicle chargers that is building a new facility in Durham County is upping its commitment to hire local Triangle workers by **300 jobs**, following the approval of a local economic incentive at the Durham County Board of Commissioners meeting on Monday night.



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Kempower, Inc., which is headquartered in Finland, announced earlier this month that it would be investing about **\$41 million** to establish its first U.S. facility with plans to build and operationalize a network of half a million electric vehicle chargers across the United States following the approval of the state's Economic Investment Committee for a state incentives package known as a job development investment grant, or JDIG.... the economic development manager for Durham County, who presented the local incentives package on Monday night, the company will create **601 jobs** in Durham County with average annual wages of more than \$71,000.

*February 3, 2023*

*Sheboygan, Wisconsin*

### **Wisconsin utilities are investing in battery storage to aid clean energy transition**

WEC Energy Group, the parent company of Wisconsin Public Service and We Energies, announced Thursday it is working on a pilot project to test a new form of long-duration energy storage at its Valley Power Plant in Milwaukee. The previous day, Alliant Energy announced plans to develop a battery energy storage system adjacent to the Edgewater Generating Station in Sheboygan, which has an anticipated project cost of **\$200 million**.

*February 1, 2023*

*Piney River, Virginia*

### **Solar farm operation planned in Piney River at former titanium mine site**

Piney River Solar LLC plans to seek zoning approval from the county to operate a 50-megawatt solar panel farm on private land situated between Patrick Henry Highway and Rose Mill Road... expected to provide enough power to serve about 13,500 homes and will generate more than \$8 million in tax revenue for Amherst County over a 40-year projected lifespan, a handout from the solar company states. "It will also provide **200 well-paying construction jobs** over the 6-9 months of construction while providing a boost to local hospitality businesses," the handout reads.

*February 1, 2023*

*Bloomington, Georgia*

### **Gov. Kemp: Seoyon E-HWA Joins Growing List of Hyundai Suppliers, Nearly Doubles Georgia Employment**

Governor Brian P. Kemp today announced that Seoyon E-HWA, a global auto parts supplier that manufactures both interior and exterior components, will create **740 new direct and indirect jobs** and invest almost **\$76 million** in a new manufacturing facility in Chatham County.

Established in 1972, Seoyon E-Hwa operates 32 corporations in North America, South America, Europe, and Asia. Seoyon E-Hwa supplies door trim, headlining, seats, C/PAD, bumpers, and other parts to Hyundai Motor Group, Kia, Mercedes-Benz, Ford, Volkswagen, and more.

*January 31, 2023*



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*Becker, Minnesota and Pueblo, Colorado*

### **[Retired coal sites to host multi-day iron-air batteries](#)**

Solar and wind power have variability in their productive hours, as multi-day weather events can impact output. Therefore, multi-day storage that is cost effective is important in grid reliability.

This is the logic that supported the creation of Boston startup Form Energy's iron-air batteries. The grid-scale batteries can store intermittent renewables-sourced electricity for 100 hours at costs competitive with conventional power plants.

Utility Xcel Energy said it will install two 10 MW/1,000 MWh iron-air batteries – one at a retired coal plant in Minnesota and another on a restored site in Colorado. The projects are expected to go online in 2025, following regulatory approval.

*January 31, 2023*

*United States*

### **[GM to invest \\$650 million in a lithium company to support its electric vehicle business](#)**

General Motors said Tuesday it plans to invest \$650 million in Lithium Americas to secure access to lithium, a vital component of batteries for electric vehicles. It's the biggest investment an automaker has ever made to secure sources of the raw materials that go into batteries, the companies said. Lithium is a critical component for batteries because it has a very high energy density and withstands charging and discharging well, according to GM and Lithium Americas.

“Direct sourcing critical EV raw materials and components from suppliers in North America and free-trade-agreement countries helps make our supply chain more secure, helps us manage cell costs, and creates jobs,” GM Chair and CEO Mary Barra said in a statement announcing the investment.

*January 26, 2023*

*John F. Kennedy International Airport, Queens, New York*

### **[A giant solar microgrid is coming to New York City's JFK airport](#)**

A sprawling new terminal at one of New York City's top airports will be able to keep operating during grid outages thanks to a solar-powered microgrid that's scheduled to come online starting in 2026, the project's developer announced on Thursday.

The 11.34-megawatt microgrid at John F. Kennedy International Airport is set to feature the largest rooftop solar array on any U.S. airport or in New York City. Some 13,000 solar panels will cover the \$9.5 billion New Terminal One now under construction in southeast Queens, according to AlphaStruxure, a joint venture between Schneider Electric and Carlyle Group.

“Microgrids solve two of the most serious challenges, resilience and decarbonization, with a single solution,” Annette Clayton, CEO of Schneider Electric North America, said in a statement.



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*January 26, 2023*

*Pampa, Texas*

### **Cabot Corp. Plans to Invest in U.S. Conductive Carbon Additives Capacity for Electric Vehicle Li-ion Battery Applications**

Cabot Corporation (NYSE: CBT) today announced that it plans to add conductive carbon additives (CCA) capacity in the United States to enhance its leadership position in the market and support the transition to electric vehicles (EVs). Cabot plans to add conductive carbons capacity at their existing facility in Pampa, Texas, which is part of an approximately \$200 million planned investment program over the next five years focused on expanding the company's CCA production in the United States.

The adoption of EVs plays a key role in the decarbonization of the economy, and the U.S. government has announced targeted efforts to build a domestic EV battery supply chain. As part of these efforts, federal and state governments have implemented a variety of programs in the form of grants, loans, and tax incentives. Cabot believes that many of these programs present potential funding opportunities for the company in its efforts to expand CCA production capacity in the U.S.

As part of its investment plans, Cabot expects to invest approximately **\$75-90 million** to produce 15,000 metric tons of conductive carbons annually at its existing facility in Pampa, TX. This project is expected to create approximately **75 high-quality jobs** and is expected to commence operation at the end of calendar year 2025. In addition to a manufacturing plant, Cabot also operates a research and development facility and pilot plant in Pampa that focuses on developing new process technology for battery and other applications.

*January 26, 2023*

*Franklin, Kentucky*

### **LioChem e-Materials LLC to Invest Over \$104 M, create 141 full-time jobs in Simpson County**

Gov. Andy Beshear announced Thursday further growth in the state's EV industry as LioChem e-Materials LLC, a subsidiary of Toyo Ink SC Holdings Co. Ltd, will locate a new facility in Simpson County with a **\$104.4 million** investment creating **141 quality jobs** for local Kentuckians to support electric vehicle battery production.

"Kentucky has made incredible strides developing our electric vehicle industry during the past few years," said Beshear. "We are committed to making Kentucky an attractive location for companies making EVs, batteries and the supply chain around this fast-growing sector."

The project, located at 310 Ronnie Clark Drive in Franklin, will help support the growing EV sector throughout Kentucky and the surrounding region.





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*January 26, 2023*

*Roswell, Georgia*

**[SK Battery America to Open U.S. IT Center, Create 200 High-Tech Jobs in Roswell](#)**

Governor Brian P. Kemp today announced that SK Battery America (SKBA) will open a regional IT hub facility in Roswell, creating **200 high-tech jobs** and investing approximately **\$19 million** over the next few years.

“We're proud of SK Battery America’s continued growth here in the No. 1 state for business,” said Governor Brian Kemp. “This innovative company continues to bring the jobs of the future that will benefit hardworking Georgians in manufacturing, and now it will also tap into the tech talent our top-ranking universities provide.”

SK Battery America is investing nearly \$2.6 billion in two lithium-ion battery manufacturing facilities in Jackson County to supply electric vehicles such as the Ford F-150 Lightning and Volkswagen ID.4. The SKBA facility is one of SK Group’s three major investments in the State of Georgia. Founded in 1976, SK Group is the second-largest conglomerate in South Korea.

*January 24, 2023*

*Sparks, Nevada*

**[Tesla to build \\$3.6 billion battery, electric semi-truck manufacturing facility in Northern Nevada](#)**

Tesla will launch a new multi-billion-dollar advanced manufacturing project in Northern Nevada for its semi truck and batteries, the latest investment by the electric vehicle and technology company in the Silver State.

“Last night, I said that Nevada is open for business, effective immediately — and I meant it,” Lombardo tweeted.

“Today, @ElonMusk announced Tesla’s new **\$3.6B** factory in northern Nevada. This is an incredible investment in our state.”

The Tesla project is expected to create **3,000 jobs** in Nevada, according to Mitch Landrieu, the Biden administration’s infrastructure chief.

*January 21, 2023*

*Defiance, Ohio; Rochester, New York; Flint, Michigan; and Bay City, Michigan*

**[GM to invest close to \\$1B in 4 US factories, 2 in Michigan](#)**

General Motors is investing **\$918 million** in four U.S. plants for expanded V-8 engine production in light-duty full-size pickups and large SUVs as well as component parts for electric vehicles.



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GM made the announcement Friday at Flint Engine plant where GM leaders, UAW leaders and Michigan's Lt. Gov. Garlin Gilchrist gathered. As part of the investment, two plants in Michigan will receive new products to build: Flint Engine Operations and Bay City Powertrain facilities.

GM said of the \$918 million, \$854 million will go to prepare the facilities to make GM's sixth-generation small block V-8 engine used in the Chevrolet Camaro, light duty pickups and large SUVs. An additional \$64 million will be invested in Rochester Operations in Rochester, New York, and Defiance Operations in Defiance, Ohio, plants to make castings and components to support GM's EV production.

*January 18, 2023*

*Sturgeon Bay, Wisconsin*

### **Fincantieri Bay Shipbuilding Picked to Build Wind Farm Service Operation Vessel for Crowley and ESVAGT**

Following up on yesterday's news that Crowley and ESVAGT are moving forward with plans to construct a service operations vessel (SOV) for the U.S. wind market, Fincantieri is today reporting today that Fincantieri Bay Shipbuilding (FBS) will construct the vessel in Sturgeon Bay, Wisconsin.

Fincantieri Marine Group announced Wednesday it has reached an agreement on a contract with CREST Wind, a joint venture between Crowley and ESVAGT, to design and build the 288-foot, Jones Act-compliant SOV designed by HAV Design AS of Norway.

SOVs are purpose-built vessels used to transport technicians to service and sustain the operation of wind turbines at sea.

*January 18, 2023*

*Sparks, Nevada*

### **Aqua Metals Selects Tahoe-Reno for Commercial Lithium Battery Recycling Campus**

Aqua Metals, Inc. (NASDAQ: AQMS) ("Aqua Metals" or the "Company"), a pioneer in sustainable lithium battery recycling, today announced the completion of due diligence on a property in Tahoe-Reno, as well as plans to commence phased development of a five-acre recycling campus designed to process more than 20 million pounds of lithium-ion battery material each year with its innovative Li AquaRefining™ technology.

Nevada is the only U.S. state with companies across every facet of the lithium battery supply chain (mining, manufacturing, and recycling), and Aqua Metals is planning its state-of-the-art recycling campus in the Tahoe-Reno Industrial Center (TRIC) in the heart of the region's growing battery ecosystem. Aqua Metals intends to design and develop the campus with the goal of sustainably recycling enough critical metals - like lithium hydroxide, nickel, copper, and cobalt - from spent lithium batteries to supply the raw materials for manufacturing 100,000 average EV battery packs every year.



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The Company's patent-pending Li AquaRefining™ technology is an innovative, closed-loop recycling system based on electroplating, producing high-purity metals with electricity instead of polluting furnaces or one-time-use chemical waste of other recycling approaches. Aqua Metals currently operates what it believes to be the first sustainable lithium battery recycling facility at its nearby Li AquaRefining pilot plant and plans to power the new commercial-scale campus using on-site renewable energy and purchase additional carbon-free energy to match its usage and overall carbon impact.

*January 18, 2023*

*Shelton, Connecticut*

### **Pune's Quench Chargers Set to Power American EV Industry with New Manufacturing Facility**

Quench Chargers has announced that its fast chargers, which were designed in India and are manufactured at its plant in Pune, will now also be manufactured at the group's American manufacturing facility located at Shelton, Connecticut, from later this year. Quench chargers will initially be sent as CKD kits from India for local assembly in the USA before being progressively localized with American-made components and manufacturing. The company has appointed Bjoern Stoll, President & CEO at Digatron Power Electronics, Inc America, as Head of Quench (Americas).

Ranging in capacities from 30KW to 60KW/ 120KW/180KW/240KW and 360KW, Quench chargers are available in CCS1, CCS2, and ChaDeMo protocols.

Bjoern Stoll, who has spent the last 10 years in the hydrogen & cryogenic industry sector, said, "It is exciting to be taking this cutting-edge EV charger technology which has so far been designed, made in India and with many charger units now successfully installed in Australia, Southeast Asia, Europe and soon also the USA. The market in the US is experiencing significant growth following the announcement by the Biden Administration to support the rollout of sophisticated high-power EV charging infrastructure around the country."

*January 12, 2023*

*Fairfax, Virginia*

### **Iowa business to open facility in Fairfax to recycle wind turbine blades**

New Iowa business, REGEN Fiber, is opening a new facility in Fairfax where it plans to recycle wind turbine blades, so they don't end up in landfills.

The company, owned by Traverro, said it has created a patent-pending process, that was tested at its Des Moines facility, to convert the decommissioned wind turbine blades into reusable materials for use in the concrete and mortar industries.

The company also said its process is an environmentally friendly way to dispose of the turbine blades that doesn't involve releasing combustion byproducts into the atmosphere.



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The material is described as a reinforcement fiber that contributes to the strength and durability of things like pavement, precast products and slabs-on-grade.

*January 11, 2023*

*Austin, Texas*

**[Tesla plans to spend \\$700M+ to expand Austin gigafactory](#)**

Central Texas' largest manufacturer is poised to get even bigger.

Tesla plans to pour **\$717 million** into constructing 1.4 million additional square feet of space at its Austin gigafactory. The plans call for four new buildings to be built and finished out at 1 Tesla Road, starting at the end of this month.

Bryce Bencivengo with the Greater Austin Chamber of Commerce said less than a year after the gigafactory has opened, the car maker has already diversified the local economy.

*January 11, 2023*

*Cartersville, Georgia and Dalton, Georgia*

**[Qcells bringing 2,000 jobs, solar manufacturing campus to Bartow County, part of a \\$2.5B to expansion](#)**

The announcements keep getting better about solar energy manufacturer Qcells' expansion in Northwest Georgia, including Bartow County.

The company plans an overall **\$2.5 billion** investment, which will see **2,500 jobs** when operational. Of those, **2,000 jobs** will be coming to Cartersville/Bartow County. The other 510 jobs will be part of Qcell's third facility near Dalton, joining one opened in 2019 and a second due soon.

The Qcells releases come a month after plans for an electric vehicle battery plant with 3,500 jobs was announced at Bartow Centre off U.S. 411 on the Rome side of Cartersville. It is scheduled to be in service in 2025. The \$4 billion to \$5 billion EV battery plant is a partnership between SK On and Hyundai Motor Group.

*January 11, 2023*

*Phoenix, Arizona*

**[Chinese solar panel maker to open Phoenix manufacturing facility](#)**

A global company that makes solar panels has leased property in west Phoenix for its first U.S. manufacturing facility.

JA Solar will invest **\$60 million** in the project, which is expected to create more than **600 jobs**, the Arizona Commerce Authority said in a press release Tuesday.



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“There’s no better place in the world for sustainable industries like solar and we are excited to see this facility add to Arizona’s clean energy reputation,” Gov. Katie Hobbs said in the release.

*January 11, 2023*

*Irvine, California*

### **[StoreDot expands globally with opening of CA innovation hub to accelerate development of semi-solid state batteries](#)**

StoreDot, the pioneer of extreme fast charging battery technology for electric vehicles, today announces further global expansion with the official opening of its first US research facility in Irvine, California, USA.

The new lab facility will be used to speed up StoreDot's development of semi-solid battery technology and battery material research. Its location was chosen to access the wealth of talent in the West Coast of the US and to strengthen the company's relationship with US-headquartered electric vehicle manufacturers.

The US team is headed by StoreDot's global Chief Science Officer Dr David Lee with ambitious plans to rapidly expand the company's US-based R&D expertise. Dr Lee and his team will work in tandem with StoreDot's Israel-based R&D headquarters, enabling it to scale up globally and remain firmly on track for its 100inX strategic technology roadmap. Announced last year, the roadmap will see the delivery of mass produced battery cells capable of 100 miles of range in five minutes of charge by 2024, 100 miles in three minutes by 2028 and 100 miles in two minutes by 2032.

*January 9, 2023*

*Maspeth, New York*

### **[Ravel announces new ‘superhub’ coming to Maspeth](#)**

Brooklyn-based electric mobility startup Revel on Jan. 9 announced that it would be developing and opening new high-volume electric vehicle (EV) charging stations in Maspeth as a part of their citywide expansion.

According to Revel, 60 new charging station hubs will be installed in Maspeth.

“Making fast, reliable electric vehicle charging accessible across New York City’s five boroughs is at the foundation of reducing emissions in our city,” said Deputy Mayor for Operations Meera Joshi. “We applaud Revel’s infrastructure investment in New York City, which will make it easier for drivers to go electric.”

*January 9, 2023*

*Richmond, California*

### **[Raven SR, Chevron and Hyzon Motors Collaborate to Produce Hydrogen from Green Waste](#)**



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Raven SR Inc. (Raven SR), a renewable fuels company, Chevron New Energies, a division of Chevron U.S.A. Inc., a subsidiary of Chevron Corporation (NYSE: CVX), and Hyzon Motors Inc. (NASDAQ: HYZN) today announced they are collaborating to commercialize operations of a green waste-to-hydrogen production facility in Richmond intended to supply hydrogen fuel to transportation markets in Northern California.

The facility will be owned by a newly formed company, Raven SR S1 LLC (Raven SR S1). Raven SR will be the operator of the facility, which is targeted to come online in the first quarter of 2024. Chevron holds a 50% equity stake in Raven SR 1. Raven SR holds a 30% stake and Hyzon owns the remaining 20%.

To produce the hydrogen, the project is expected to divert up to 99 wet tons of green and food waste per day from Republic Services' West Contra Costa Sanitary Landfill into its non-combustion Steam/CO<sub>2</sub> Reforming process, producing up to 2,400 metric-tons per year of renewable hydrogen. Diversion of this organic waste will help fulfill California's SB 1383 mandates, and will potentially avoid up to 7,200 metric-tons per year of CO<sub>2</sub> emissions from the landfill. In addition, Raven's technology uses no fresh water, an important element given drought risks in California, and uses less electricity to power its units than competing processes. The project is expected to produce at least 60% of its own electricity by upgrading the currently permitted and zoned landfill gas electric generators at the landfill, further reducing both the current air emissions and the need for grid power for its non-combustion process.

*January 5, 2023*

*Register, Georgia*

### [Gov. Kemp: Longtime Kia and HMG Supplier to Build Manufacturing Facility in Bulloch County](#)

Governor Brian P. Kemp today announced that Ecoplastic Corporation, an automotive parts manufacturer, will create **456 new jobs** and invest **approximately \$205 million** in a new manufacturing facility in Bulloch County.

"We're proud to welcome Ecoplastic to our growing ecosystem of manufacturers, logistics professionals, suppliers, and more, building on the record-breaking jobs and investments that are on their way to the Peach State," said Governor Brian Kemp. "This great company will be able to serve the Hyundai Metaplant well from Statesboro, where it will find a welcoming community of hardworking Georgians and close proximity to our ports system."

Established in 1984, Ecoplastic Corporation is a Korea-based company that manufactures plastic automobile parts for original equipment manufacturers (OEMs) and other suppliers. Ecoplastic is a Tier-1 supplier for Hyundai Motor Group (HMG) and Kia and engages in the manufacturing of automotive interior and exterior plastic parts, including bumpers, consoles, trims, and plastic molds.



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*December 29, 2022*

*Lewis Center, Ohio*

**[EVE Energy North America Chooses Ohio for R&D Center Expansion](#)**

JobsOhio and EVE Energy North America today announced that Eve will construct a new R&D facility focused on the testing, design and storage of state-of-the-art lithium-ion batteries... EVE's proprietary energy storage techniques can support the full life cycle of these batteries, which in some cases are 10-20 years. The project will result in a total of **12 new jobs**, more than doubling the number of associates in Lewis Center. The company will also invest at least **\$5.7M** in machinery and equipment, building renovation, and construction.

EVE Energy North America is an Ohio corporation founded in 2014. Their products are widely used in the Internet of Things (IoT), Electric Vehicles (EVs), and Energy Storage Solutions (ESS). EVE Energy North America employs knowledgeable bilingual support staff with 20+ years of battery experience located in the states to simplify communication, on-site technical support, and provide program management capabilities to assist with keeping your projects on track from design to production.

*December 28, 2022*

*Weirton, West Virginia*

**[Form Energy to build facility in West Virginia steel town](#)**

Form Energy Inc., a startup developing multi-day energy storage systems, is expected to begin construction in 2023 of a factory in Weirton, West Virginia – a town that was once a leader in steel production. Form Energy hopes to begin manufacturing the clean energy iron-air battery systems in 2024. West Virginia Gov. Jim Justice said the factory will be built with a total investment of **\$760 million**, which includes \$290 million in “asset-based performance financing” incentives from the state. The state will maintain ownership of the land and the buildings, according to Justice. The governor’s office estimates the new manufacturing plant will create a minimum of **750 jobs** and pave the way for the state to reshape its electric system to run on “100% low-cost renewable energy.”

*December 20, 2022*

*Auburn, Alabama*

**[EV charging station manufacturer plans \\$8 million Auburn plant, to hire 180](#)**

A plant that makes fast charging stations for electric vehicles is planning its first U.S. location in Auburn.

ADS-TEC Energy today announced an **\$8 million** project which is expected to create about **180 jobs**. ADS-TEC Energy uses lithium-ion technology to create rapid electric charging stations, with battery buffers that allow for fast charging without the need to expand power grids.

*December 17, 2022*

*Bellevue, Ohio*



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### [Autokiniton to invest \\$15 million in Bellevue plant](#)

Autokiniton will invest **\$15 million** and create **150 new jobs** to support its growing business in Sandusky County. Recently, the Ohio Tax Credit Authority approved a Job Creation Tax Credit for the company.

The Bellevue facility primarily supplies frames for Ford Motor Company. Inside the facility, 360 associates operate and maintain an incredible array of automated assembly equipment, working together to create quality parts with industry-leading precision and speed. Every two minutes, a completed frame rolls off the assembly line — one of more than 200,000 produced every year in Bellevue.

*December 15, 2022*

*Lancaster, Ohio*

### [Cirba Solutions Secures Over \\$200 Million Investment to Grow its Closed Loop EV Battery Recycling & Materials Production in North America](#)

Cirba Solutions, the largest and most comprehensive battery management and materials processor for end-of-life batteries and gigafactory manufacturing scrap, has received a **\$245 million** minority investment from the EQT Infrastructure V fund ("EQT Infrastructure"). The Heritage Group, a fourth-generation family-owned business managing a diverse portfolio of companies focused on a safer, more enriching, and sustainable world, will remain the majority owner of Cirba Solutions..

Cirba Solutions is the most trusted and only complete service provider in the battery management industry, taking batteries at end-of-life, processing them to extract critical materials and supply these materials back in the supply chain. With an operational, differentiated platform the full suite of capabilities addresses lithium-ion and cross-chemistry battery demand supporting a circular battery supply chain for the industry. It is the leader in end-to-end battery recycling management solutions, offering battery-centric logistics, collection program solutions, second-life applications, and validating cathode production, with technological processes that emphasize environmental compliance. Cirba Solutions combines the resources and expertise of Heritage Battery Recycling, Retrieval Technologies, and Battery Solutions.

*December 14, 2022*

*Carrollton, Texas*

### [Siemens is opening an EV charger factory in Texas](#)

EV tech and infrastructure giant Siemens eMobility today announced that it will locate its second US manufacturing hub for EV chargers in Carrollton, Texas, outside of Dallas. Siemens says it will retrofit the 80,000-square-foot Carrollton plant so that it can ramp up production of the EV chargers quickly. The new hub will create **100 jobs** at the facility and across the regional supply chain, and the plant is expected to be fully operational by mid-2023.





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*December 14, 2022*

*Ridgefield, South Carolina*

### [Redwood Materials joins electric vehicle, battery trek to South Carolina](#)

Redwood Materials is the latest company to set up shop in South Carolina's growing community of electric vehicle and battery manufacturers, the Carson City, Nevada-based firm said on Wednesday.

Redwood said it will build a **\$3.5 billion** battery materials campus in Ridgefield, about 30 miles (48.28 km) northwest of Charleston, that will recycle, refine and remanufacture cathode and anode materials such as nickel, cobalt, lithium and copper.

*December 14, 2022*

*Charlotte, North Carolina*

### [Albemarle Corporation selects Charlotte for advanced lithium technology park](#)

Albemarle Corporation, a global specialty chemicals company, has selected Charlotte for a state-of-the-art Albemarle Technology Park, creating **200 jobs** in the University City neighborhood, the City of Charlotte announced this week.

Albemarle will invest up to **\$200 million** to develop the technology park that will focus on the research and development of advanced materials, novel process development, and next-generation lithium products. Innovations from the new site will enhance lithium recovery, improve production methods, and introduce new forms of lithium that will propel lithium-ion batteries and the electric vehicle sector even further.

*December 14, 2022*

*Weepah Hills, Nevada*

### [Chevron to create JV for U.S. geothermal projects](#)

Chevron Corp (CVX.N) is forming a joint venture with Swedish investment and development firm Baseload Capital to develop geothermal projects in the United States, the companies said on Wednesday. Geothermal energy, which taps into heat within the earth, currently makes up less than 1% of the U.S. energy mix. If harnessed, it could produce 8.5% of all electricity generation in the country by 2050, according to the U.S. Department of Energy.

*December 14, 2022*

*Chicago, Illinois*

### [NanoGraf to produce advanced battery materials in facility near Chicago](#)

NanoGraf plans to launch production of advanced silicon anode materials for the U.S. battery supply chain in 17,000 square foot manufacturing facility in Chicago. Production is set to begin in Q4 2023, with an expected phase one material production capacity of 35 tons per year, which is enough for 24 million battery cells. NanoGraf said it intends to ramp production to 1000 tons of material production per year by 2024.



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The U.S.-based company, a spinout of Northwestern University and Argonne National Laboratory, previously produced its silicon anode battery materials in Japan, but decided to its manufacturing in order to support the emerging U.S. battery supply chain. The proprietary silicon anode enables the world's most energy-dense 18650 cell, the company reports.

*December 13, 2022*

*Macomb County, Michigan*

**[Lear Corp. plans \\$112M expansion in SE Mich., Traverse City to grow EV components](#)**

Tier 1 automotive supplier Lear Corp. plans a **\$112.5 million** expansion at three facilities in southeastern Michigan and Traverse City to support the manufacturer's ongoing growth in the electric vehicle market.

The Southfield-based company, which specializes in seating and electrical systems, plans a new 120,000-square-foot facility in Independence Township in Oakland County. The company also expects to ramp up operations at existing facilities Traverse City and Macomb County to support the expansion, which could create up to 500 new jobs.

*December 13, 2022*

*Independence Township, Michigan*

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The company, which was founded in 1917 in Detroit, previously received a Michigan Economic Growth Authority tax abatement in 2009 and a 2017 performance-based grant that helped create 435 new jobs. Lear went public in 1994 and currently operates 253 facilities in 38 countries with more than 160,000 employees.

*December 13, 2022*

*Traverse City, Michigan*

**[Lear Corp. plans \\$112M expansion in SE Mich., Traverse City to grow EV components](#)**

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City and Macomb County to support the expansion, which could create up to **500 new jobs**. Lear plans to use its existing Traverse City plant for manufacturing components related to the EV battery back, and both the Traverse City and Sterling Heights plant in Macomb County will supply the new Oakland County facility. The new jobs created under the expansion will pay an average hourly wage of \$20.30 plus benefits.

The company, which was founded in 1917 in Detroit, previously received a Michigan Economic Growth Authority tax abatement in 2009 and a 2017 performance-based grant that helped create 435 new jobs. Lear went public in 1994 and currently operates 253 facilities in 38 countries with more than 160,000 employees.

*December 13, 2022*

*Kokomo, Indiana*

### **[Manufacturer to invest \\$75M in EV battery component plant in Indiana](#)**

Michigan-based company soulbrain MI has announced plans to establish manufacturing operations in Kokomo, Indiana, investing **\$75 million** to create a facility to produce material for electric vehicle batteries. The company expected to employ **75 workers** according to a statement. The company will employ 75 workers by the end of 2025, producing high-purity electrolyte for lithium-ion batteries, according to a statement from Indiana Economic Development Corp.

*December 13, 2022*

*Madison, Georgia*

### **[New solar panel manufacturer to set up in Georgia with 500-MW facility](#)**

A brand-new company plans to open a 500-MW solar panel assembly factory in Madison, Georgia, in fall 2023. Adion Solar told Solar Power World it began exploring options to start a facility before manufacturing tax credits were included in the Inflation Reduction Act, intending to supply the commercial market. Everything is still on track for a 2023 opening, with official product releases determined once the Treasury Dept. provides more details on tax credit distribution, said Philip Devlin, part of Adion's management team.

*December 12, 2022*

*TBD Southeast, Michigan*

### **[Stellantis, DTE announce solar projects to power Michigan sites](#)**

The maker of Jeep SUVs and Ram pickup trucks is partnering with DTE Energy Co. to add 400 megawatts of solar energy generation to power dozens of sites in southeast Michigan and the production of all of its vehicles in the state.

The addition for Stellantis could power approximately 130,000 homes annually and will avoid close to 740,000 tons (670,000 metric tons) of carbon dioxide emissions every year. After completion, the company will have reduced carbon emissions in North America by 50% and across its manufacturing facilities by 30%.



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*December 8, 2022*

*Wilbarger County, Texas*

### [\*\*Air Products and AES Announce Plans to Invest Approximately \\$4 Billion to Build First Mega-scale Green Hydrogen Production Facility in Texas\*\*](#)

Air Products (NYSE: APD) and The AES Corporation (NYSE: AES) today announced plans to invest approximately **\$4 billion** to build, own and operate a green hydrogen production facility in Wilbarger County, Texas. This mega-scale renewable power to hydrogen project includes approximately 1.4 gigawatts (GW) of wind and solar power generation, along with electrolyzer capacity capable of producing over 200 metric tons per day (MT/D) of green hydrogen, making it the largest green hydrogen facility in the United States.

The project would create more than **1,300 construction and 115 permanent operations jobs**, as well as about 200 transportation and distribution jobs. It is also expected to generate approximately \$500 million in tax benefits to the state over the course of the project's lifetime, while extending Texas' energy leadership.

*December 8, 2022*

*Walterboro, South Carolina*

### [\*\*Kontrolmatik Technologies establishing operations in Colleton County\*\*](#)

Kontrolmatik Technologies, via its subsidiary Pomega Energy Storage Technologies, today announced plans to build a 3 gigawatt-hour (GWh) capacity lithium-ion battery factory in Colleton County. The company's **\$279 million** investment will create approximately **575 new jobs**.

Founded by Kontrolmatik Technologies in 2022, Pomega Energy Storage Technologies is a manufacturer and integrator of battery energy storage systems (BESS). BESS can be paired with renewable energy installations or can serve as standalone systems to support existing energy grids. BESS offers a variety of existing grid support functions including increasing grid efficiency, providing grid stabilization, lowering the cost of electricity to consumers or supplying backup power during outages.

*December 8, 2022*

*Bartow County, Georgia*

### [\*\*Hyundai Motor Group and SK On To Build EV Battery Facility in Bartow County\*\*](#)

Governor Brian P. Kemp today announced that Hyundai Motor Group (HMG) and SK On have selected a site in Bartow County for a new electric vehicle (EV) battery manufacturing facility that will supply Hyundai Motor Group's plants in the U.S. One of the largest economic development projects in state history, stakeholders estimate it will create more than **3,500 new jobs** through approximately **\$4-5 billion** of investment in Bartow County.



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Hyundai Motor Group is a global enterprise that has created a value chain based on mobility, steel, construction, logistics, finance, IT, and service. With about 250,000 employees worldwide, the Group's mobility brands include Hyundai, Kia, and Genesis.

*December 8, 2022*

*Tucson, Arizona*

**[Sion Power Expands Tucson, Arizona, EV Battery Plant](#)**

Sion Power Corporation, a leading technology developer of next-generation batteries for electric vehicles, plans to expand its existing manufacturing operations in Tucson, Arizona. The **\$341 million** project is expected to create **150 jobs**.

Sion Power is a privately owned company that began as a spin-off from Brookhaven National Laboratory in 1989 as Moltech, which focused its efforts on research and development. The critical component of the company's battery is the proprietary anode technology which is a key differentiator and enabler within the next-generation rechargeable battery market and is capable of delivering up to 500 Wh/kg.

*December 7, 2022*

*Hayward, California*

**[Designed and Built in California, EverCharge Opens Hayward Factory to Meet Growing Demand and Further Ongoing Commitment to U.S.-Based Production](#)**

EverCharge, a leading provider of turnkey electric vehicle (EV) charging solutions for fleet and multi-family homes, announced today that it is expanding its manufacturing footprint and opening a new 30,000 square foot production factory in Hayward, California.

EverCharge provides hardware and software EV charging solutions for fleets and multi-unit homes. Their turnkey offerings are designed to utilize existing infrastructure to scale EV charging at the lowest cost. EverCharge's load balancing SmartPower technology maximizes the number of electric vehicles that can charge at any given time and eliminates barriers such as data connectivity. EverCharge was founded in 2013 and is headquartered in Palo Alto.

*December 6, 2022*

*The Colony, Texas*

**[ELM Is Building a 125K-SF HQ and Manufacturing Plant for MicroGrid, Solar Divisions in The Colony](#)**

Energy and utility services innovator ELM is constructing a new, 125,000-square-foot headquarters and manufacturing facility in The Colony for its MicroGrid and Solar divisions. When fully operational, Illinois-based ELM said the facility will employ more than **100 clean-**



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**energy professionals**, including engineering, production technicians, customer service, sales, and management employees.

Founded in 1991, the ELM Companies provide utility infrastructure management solutions. The company's four business specialties that can utility and energy needs through a single partnership. Based in Illinois, the company has a corporate office in Lewisville. Its four business segments are: ELM Utility Services, ELM Launchpoint, ELM Microgrid and ELM Solar. The company aims to be a leading partner for companies across America. Its products and services used among hospitality, healthcare, safety, utilities, manufacturing, construction, and private residences, the company said.

*December 6, 2022*

*Florence, South Carolina*

### **[\\$810 Million Investment Will Create 1,170 Jobs](#)**

Envision AESC, a leading Japanese electric vehicle battery technology company, said Tuesday, Dec. 6, 2022, that it will build a state-of-the-art battery cell gigafactory in Florence County. The **\$810 million** investment will create **1,170 jobs** and will support the company's multi-year partnership with the BMW Group, according to the South Carolina Department of Commerce.

*December 6, 2022*

*Tucson, Arizona*

### **[American Battery Factory to build Tucson, Arizona battery cell gigafactory](#)**

American Battery Factory, a Utah-based manufacturer of lithium-ion phosphate (LFP) battery cells, will build its first gigafactory in Tucson, Arizona, with 2 million square feet of production space. The company's landmark site will involve a **\$1.2 billion** capital investment, start with 300 first phase employees and scale up to **1,000 cumulative jobs** over time, bringing \$3.1 billion in economic impact to the state.

*December 6, 2022*

*Spring Hill, Tennessee*

### **[Spring Hill battery cell manufacturer to invest \\$275M more, add 400 jobs](#)**

A Maury County factory will add an additional **400 jobs** in an expansion poised to supply General Motors' Spring Hill assembly plant with batteries for its electric vehicle production. The **\$275 million** investment at Ultium Cells will increase battery production by more than 40 percent, according to data released by the state. The General Motors Spring Hill plant is set to produce its first electric vehicle, the Cadillac LYRIQ, with the Ultium batteries.

*December 2, 2022*

*Swedesboro, New Jersey*

### **[Coal-Fired Plant Imploded in New Jersey for Battery Array](#)**

A former coal-fired power plant in New Jersey was imploded Friday, and its owners announced plans for a new **\$1 billion** venture on the site, where batteries will be deployed to store power from clean energy sources including wind and solar.



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*December 1, 2022*

*Storey County, Nevada*

**[Redwood Materials Plans \\$1.1 Billion Investment to Expand Battery Facility in Nevada](#)**

Yesterday, the Nevada Governor's Office of Economic Development (GOED) Board of Directors approved Redwood Materials \$105,615,082 tax abatement. In exchange, the company will invest **\$1.1 billion** in the first two years of operation to expand its large scale battery materials facility in Storey County and will be required to create 150 jobs in the first two years of operation at an average weighted hourly wage of \$32.01. It is expected to grow to **450 jobs** in five years.

Redwood Materials is creating a closed-loop domestic supply chain for lithium-ion batteries across collection, refurbishment, recycling, refining, and manufacturing of battery materials. The company recovers more than 95 percent of the metals (including nickel, cobalt, lithium, and copper) from batteries, and uses these to remanufacture anode and cathode components. The company then supplies these components back to the U.S. battery cell manufacturers.

*November 30, 2022*

*Buckeye, Arizona*

**[Startup Behind Made-in-US Battery Plant Raises \\$75 Million](#)**

Startup Kore Power, Inc. has raised \$75 million of an anticipated **\$150 million** financing round to fund construction of a lithium-ion battery factory in Arizona, betting the recently passed Inflation Reduction Act will boost demand for US-made cells.

The company plans to break ground on its KorePlex factory near Phoenix next month, with cell production scheduled to start in late 2024. The plant's annual production capacity will begin at 6 gigawatt-hours (GWh) of cells, with plans to expand to at least 12 GWh. Kore's high-density cells are designed for use in transportation and stationary energy storage

*November 23, 2022*

*Richmond Hill, Georgia*

**[Hyundai Mobis announces EV powertrain plant near Georgia coast](#)**

South Korean automaker Hyundai has announced a second large supplier for its new electric car plant on the Georgia coast.

Hyundai Mobis plans to invest **nearly \$1 billion (\$926 million)** in a new facility in Bryan County that could employ around **1,500 workers**, Georgia Gov. Brian Kemp said in a news release.

The plant in Richmond Hill will make powertrains for Hyundai's electric vehicles manufactured at its new plant scheduled to open in 2025 about 30 miles (48 kilometers) west of Savannah as



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well as components for a Kia plant in West Point and another Hyundai plant in Montgomery, Alabama, officials said.

*November 21, 2022*

*Clarksville, Tennessee*

**[LG Chem to build \\$3.2B cathode plant in Clarksville](#)**

Tennessee Gov. Bill Lee, Department of Economic and Community Development Commissioner Stuart McWhorter and LG Chem officials today announced the company's plan to invest **approximately \$3.2 billion** to establish a new cathode manufacturing facility in Clarksville, Tennessee, which will support the electric vehicle battery value-chain in the U.S.

LG Chem's anticipated investment of approximately \$3.2 billion represents the single largest announced foreign direct investment in Tennessee's history. The project is expected to create **860 new jobs** in Montgomery County.

The Clarksville facility will be the largest of its kind in the U.S. and is expected to produce roughly 120,000 tons of cathode material annually by 2027, which is enough to power batteries in 1.2 million electric vehicles with a range of 310 miles per charge.

*November 19, 2022*

*Bedford, Indiana*

**[GM to invest \\$45M at Bedford Casting Operations to expand capacity](#)**

General Motors plans to invest **\$45 million** at its Bedford, Indiana aluminum die casting foundry. This investment will be used to expand the facility's production capacity of EV drive unit castings to support the anticipated strong demand for the Chevrolet Silverado EV and GMC Sierra EV full-size pickups. The capacity expansion work at the facility will begin immediately.

In December 2021, GM announced a more than \$51-million investment at Bedford to install new equipment to support drive unit castings production for the Chevrolet Silverado EV and various other casting applications.

Last year, the 1 million-square-foot site began producing electric drive unit castings that have been used in the 2022 GMC HUMMER EV Pickup. With more than 90,000 reservations for the GMC HUMMER EV pickup and SUV, GM has currently stopped taking orders.

*November 16, 2023*

*Decatur, Alabama*

**[First Solar plans \\$1.1 billion Alabama manufacturing facility with 700 jobs](#)**

First Solar Inc. plans to invest **\$1.1 billion** to establish a photovoltaic (PV) solar module manufacturing facility in Lawrence County, creating **over 700 jobs** in North Alabama, according to an announcement today by Governor Kay Ivey.





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The new factory is part of the company's previously announced investment in scaling its American manufacturing footprint to over 10 gigawatts (GW) by 2025.

The facility in Lawrence County's Mallard Fox West Industrial Complex is expected to be commissioned in 2025, with a planned annual capacity of 3.5 GW.

The new fully vertically integrated facility will join three factories in Ohio, including one that will come online in the first half of 2023, to form First Solar's expanded domestic manufacturing footprint.

*November 15, 2022*

*Plano, Texas*

**[SK Signet to Create up to 183 jobs for EV Fast Charger Manufacturing Facility in Plano, Texas](#)**

SK Signet, a top global manufacturer of electric vehicle (EV) charging solutions, announced plans today to create up to **183 highly-skilled jobs** for a new EV charger manufacturing facility in Plano, Texas.

With this facility, SK Signet will produce a range of fast-charging solutions, including providing the first U.S.-manufactured ultra-fast chargers and power cabinets that offer more than 350kW of power. The facility, covering 136,200 square feet, is expected to be operating at full capacity by July 2023, producing more than 10,000 fast chargers per year. SK Signet plans to create up to 183 jobs at the site by 2026.

The manufacturing facility is SK Signet's first in the U.S. and will align with the goals of the Infrastructure Investment and Jobs Act and the National Electric Vehicle Infrastructure (NEVI) program, boosting domestic manufacturing of secure, interoperable EV chargers and supporting the growth of a nationwide EV charging infrastructure.

*November 14, 2022*

*Coweta County, Georgia*

**[FREYR Battery Plans Coweta County, Georgia, Manufacturing Center](#)**

FREYR Battery, a developer of clean, next-generation battery cell production capacity, will establish a manufacturing facility in Coweta County, Georgia. The **\$2.57 billion** project is expected to create **723 jobs**.

The new facility, to be called Giga America, will be located at the Bridgeport Industrial Park site, which has been zoned for a mix of heavy and light industrial use since 2014.

"At FREYR, we are deeply committed to the ambition we share with our U.S. partners to decarbonize the transportation and energy sectors," said FREYR's Co-Founder and CEO Tom Einar Jensen. "As we advance our U.S. expansion plan in cooperation with our key stakeholders, we expect to make meaningful investments to spur job creation and the eventual development of



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localized, decarbonized supply chains in the U.S. to enhance energy security and economic activity."

*November 9, 2022*

*Statesboro, Georgia*

### [Auto parts manufacturer planning \\$317M investment in Georgia to supply Hyundai EV plant](#)

An automotive parts manufacturer is planning to spend **\$317 million** on a new manufacturing facility near Statesboro, but state officials won't say how much of the bill taxpayers will have to cover.

Joon Georgia Inc. plans to create **630 new jobs** at Bulloch County's Bruce Yawn Commerce Park, previously named the Southern Gateway Commerce Park. State officials touted the news as "the first confirmed supplier" for Hyundai Motor Group's new Bryan County facility.

In May, Hyundai Motor Group announced it had selected Georgia for its "first fully dedicated electric vehicle and battery manufacturing facility." The company plans to invest more than \$5.5 billion to build the facility at the 2,923-acre Bryan County Megasite along Interstate 16.

*November 9, 2022*

*Oklahoma City, Oklahoma*

### [Canoo to expand to Oklahoma City with electric vehicle manufacturing plant](#)

Canoo Inc. (NASDAQ: GOEV), a high-tech advanced mobility company has entered into a long-term lease agreement with an affiliate of AFV Partners, a related party, for its recently announced Vehicle Manufacturing Facility in Oklahoma City. Canoo will initially occupy close to 500,000 square feet, with the ability to expand. In phase 1, Canoo expects to employ **more than 500 people**, ramping teams over the coming months.

"One of the reasons we picked Oklahoma is because it has one of the most amazing workforces in America. They have proven themselves across many industries, including aviation and aero defense, which is why we are excited to announce our second manufacturing facility in Oklahoma City, following our Vehicle Module Manufacturing Facility event on April 5, in Pryor, OK," said Tony Aquila, Chairman and CEO at Canoo. "I want to thank Mayor Holt and the people of Oklahoma City for welcoming us. I also want to thank Secretary of Commerce Mariska and his team for all their help, as well as Terex leadership for allowing us to get started with our teams prior to the close."

*November 9, 2022*

*Mebane, North Carolina*

### [Battery Manufacturer Expands in North Carolina](#)



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Sunlight Batteries USA is spending **\$40 million** to build a new battery assembly plant here. The new facility will be equipped with five lithium-ion battery assembly lines, including a fully automated one and one dedicated to large-scale energy storage systems. The facility is expected to create **more than 200 jobs**.

Sunlight Batteries USA is a subsidiary of the Sunlight Group, headquartered in Athens, Greece. The Mebane facility is part of a \$560 million global expansion plan that includes \$150 million for increasing the company's presence in the U.S. market.

*November 9, 2022*

*Kingston, New Hampshire*

### **[Unitil seeks permission to build 5-megawatt solar array in Kingston](#)**

Unitil Corp. plans to invest **\$16.3 million** of ratepayer money to build and own a 5-megawatt solar array in Kingston.

The project would be larger than any solar facility in the state that's currently in operation, and it would also be the first energy-generating asset to be built and owned by a regulated utility since a restructuring came to be in the late 1990s..

"This is a first for us," said Alec O'Meara, the company's spokesperson. It is also in keeping with the utility goal to be 100 percent renewable by 2050. While that goal is just for the company's internal operations, the company also supports a regional shift toward renewable energy.

*November 9, 2022*

*Shelby Township, Michigan; St. Clair, Michigan; and Highland Park, Michigan*

### **[Auto Parts Manufacturer to Create More Than 1,500 Jobs in Michigan with 3 Expansions](#)**

A major global auto supplier plans to invest **more than \$500 million** into its Michigan operations, company and state officials announced.

Magna executives said the three Southeast Michigan projects, which would amount to \$526 million in capital expenditures, would support new production agreements inked by the Canada-based contract manufacturer. They are expected to create **more than 1,500 new jobs** overall.

The bulk of the funding, nearly \$427 million, would go toward a 740,000-square-foot expansion at its St. Clair, Michigan, plant, where its Electric Vehicle Structures division will make battery trays for EVs produced in the Midwest beginning in late 2023. That facility would also account for a majority of the new hires: an estimated 920 added jobs.

Magna will also spend just over \$96 million on a newly leased facility in Shelby Township, Michigan, which will produce internal components for EV battery trays. Nearly 160 jobs are expected to be added at that factory.



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The company's Highland Park, Michigan, automotive seating facility, meanwhile, will see \$3.7 million in spending but create 490 jobs. The suburban Detroit factory will house new assembly equipment for frame lines, as well as equipment relocated to its operations from a supplier.

*November 7, 2022*

*Lancaster, California*

### **[City of Lancaster Announces Collaboration with Heliogen to Produce Green Hydrogen](#)**

The City of Lancaster today announced the signing of a memorandum of understanding (MOU) with Heliogen, Inc., a California-based renewable energy technology company that uses concentrating solar thermal systems to convert sunlight into steam, heat, power, and green hydrogen fuel. Under the terms of the MOU, Heliogen will serve as the technology provider, project developer, builder, operator, and equity partner for a green hydrogen generation facility that will support the city's vision to become a model for hydrogen production in the U.S.

This relationship is expected to accelerate the novel use of concentrating solar thermal energy for a commercial hydrogen generation facility and builds upon the existing relationship between the City of Lancaster and Heliogen, which sited its demonstration test facility in the city in 2019.

*November 3, 2022*

*Silverstreet, South Carolina*

### **[Ecoplexus establishing new solar farms in Newberry County](#)**

Ecoplexus, a leading global solar energy company, announced plans to establish a new solar farm operation in Newberry County. The company is investing \$89 million into the project.

“Newberry County aims to be a part of the green energy economy, and this is a big step in that direction. We welcome the investments of Ecoplexus and look forward to many years of clean energy production right here at home,” said Newberry County Council Chairperson Todd Johnson

Ecoplexus is an international renewable energy company that develops, owns and operates utility-scale solar projects for commercial, government and utility markets. The company's services also include the design, engineering, construction and financing of renewable energy systems. With a focus on sustainability, the company is committed to a future of clean power by using renewable business practices to lower carbon footprints.

*November 3, 2022*

*Buffalo, New York*

### **[Viridi Parente expands facility in East Buffalo, offering 500 new jobs](#)**



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Viridi Parente is doubling its facility on East Delavan, creating **500 new jobs** and finding them through Greenforce, a nonprofit that coordinates with community leaders to train new employees.

"Let's bring our jobs to our people, let's not build factories in the middle of nowhere, the majority of the workforce here will walk to work," said Jon Williams, CEO of Viridi Parente.

The new expansion will add 139,000 square feet of facilities. The manufacturer already sits on a 42-acre campus.

*November 3, 2022*

*Newton, Iowa*

### **Newton gets a second wind with return of TPI Composites in 2024**

TPI Composites, Inc. announced today in a press release that it signed a 10-year lease extension with General Electric Renewable Energy to produce wind blades out of its Newton-based manufacturing facility in Iowa, which had closed down at the end of last year. Production is expected to start again in 2024.

"We are pleased to announce our unique partnering approach with GE to secure the long-term availability of our Newton, Iowa facility for GE's future blade production needs," TPI President and CEO Bill Siwek said in the release, noting the agreement is possible in part due to the Inflation Reduction Act of 2022.

When TPI announced in September 2021 it was suspending manufacturing operations in Newton, the company said part of the reason was due to the uncertainty of when wind-related tax credits would go into effect, as well as uncertainties with the regulatory environment, costs and supply chains.

*November 2, 2022*

*Mauldin, South Carolina*

### **EPC Power brings 150 jobs to Greenville County**

EPC Power plans to build a facility in Greenville County, according to a press release from South Carolina Governor's office.

EPC plans to make a **\$5 million** investment for their new facility that will create **150 new jobs** in Greenville County, company officials say.

Operations on this facility will start this month and will be built at 360 Old Laurens Road, in Mauldin.

*November 2, 2023*



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*De Soto, Kansas*

### **Panasonic breaks ground on \$4 billion EV battery plant in Kansas**

Panasonic has broken ground on the **\$4 billion facility** — an important step as the US aims to increase the number of electric vehicle batteries that are assembled domestically... The facility will primarily supply batteries to Tesla, which is the number one seller of EVs in the world and is gearing up to begin production of its Cybertruck at the end of 2023. The factory will focus on rapidly ramping up the manufacture of Tesla's 2170 cylindrical lithium-ion batteries, which power the company's Model 3 and Model Y vehicles... The De Soto facility is expected to create up to **4,000 jobs**. Panasonic said that recruitment for the first positions is expected to begin in mid-2023.

*November 2, 2023*

*Pryor, Oklahoma*

### **Canoo Announces EV Battery Module Manufacturing Facility in Oklahoma**

Canoo (NASDAQ: GOEV), a leading high-tech advanced mobility company has announced an EV Battery Module Manufacturing Facility at MidAmerica Industrial Park in Pryor, OK. The new facility will expand Canoo's manufacturing and employment footprint in the region. Once ramped, the facility will be capable of approximately 3200 MWhs of battery module manufacturing capacity.

"We are accelerating our hiring plans in Pryor with the establishment of our EV Battery Module Manufacturing Facility, which will produce our proprietary battery modules, energy management system and thermal control technology for our MPP platform" said Tony Aquila, Chairman and CEO at Canoo. "This is the first building block for Canoo's production ramp strategy, with more news coming very soon. The location has been strategically selected due to its proximity to our battery cell partner Panasonic and our future MegaMicro factory. In addition, we will be the first EV company to produce our battery modules with Hydro-Power from the Grand River Dam Authority. We will work closely with and hire within the surrounding communities to create an EV Ecosystem in the region."

*November 2, 2023*

*Columbus, Mississippi*

### **Steel Dynamics Announces Location of Planned Biocarbon Production Operations**

Steel Dynamics, Inc. (NASDAQ/GS: STLD) today announced the selection of Columbus, Mississippi, as the location for the initial SDI Biocarbon Solutions biocarbon production operations, a joint venture between the company and Aymium. The site is strategically located in close proximity to one of the company's largest electric-arc-furnace steel mills, which will consume a significant portion of the biocarbon as a replacement for anthracite, and is also central to plentiful fiber raw material sources. Final site determination is subject to the anticipated receipt of necessary permits and continued state and local government support.

"We are incredibly excited to announce our selection of Columbus, Mississippi as the site for our first biocarbon production facility. We believe this strategic joint venture with Aymium will



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significantly reduce our steelmaking greenhouse gas emissions, which are already materially lower than our global competitors, in a cost-effective manner," stated Mark D. Millett, Chairman, President, and Chief Executive Officer. "We are eager to begin construction on this meaningful greenhouse gas reduction project, and we appreciate the warm welcome and support that we have received from Governor Tate Reeves and the State of Mississippi, as well as leaders from the Mississippi Development Authority and local leaders from the Lowndes County Board of Supervisors, the Lowndes County Industry Development Authority, the Lowndes County Port Authority, the Golden Triangle Regional Airport Authority and the Golden Triangle Development LINK. We anticipate the project will create **40 high-paying positions**.

*October 28, 2022*

*Eureka, California*

### **Californian Port Partners with Crowley to Develop Floating Offshore Wind Terminal**

The company, through its business unit dedicated to wind energy, Crowley Wind Services, will enter into negotiations with the port to lease and serve as the port's developer of the Humboldt Bay Offshore Wind Heavy Lift Marine Terminal. Services at the terminal will support the manufacturing, installation and operation of floating offshore wind platforms, use of large heavy cargo vessels and providing crewing and marshalling services in the Pacific waters.

*October 27, 2022*

*Montgomery, Alabama*

### **Governor Ivey Announces Hyundai Mobis Plans EV Battery Module Plant in Montgomery, Creating 400 Jobs**

Governor Kay Ivey on Thursday joined executives of Hyundai Mobis, one of the world's largest auto suppliers, to announce the company's plans to invest **\$205 million** to open an EV battery module plant in Montgomery that will eventually employ at least **400 people**.

Seoul, South Korean-based Hyundai Mobis is a longtime supply partner for Hyundai Motor Co. and its Kia and Genesis affiliates. Besides providing major component systems for the automakers, the company also offers after-service parts.

*October 26, 2022*

*Charleston, South Carolina*

### **Bosch Set To Invest \$260 Million, Create 350 Jobs In South Carolina**

This week, Bosch announced officially began producing of electric vehicle motors at its Charleston, SC facility. The company plans to invest **\$260 million** more to further expand production of EV components at the site, and expects to create at least **350 high-paying manufacturing jobs** in the region by 2025.

The company says the expansion will allow them to support the additional e-mobility business they've recently acquired, but admit that the plant will require further expansion to meet future demand. As such, there are plans to add an additional 75,000 square feet over the next few years.



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*October 25, 2022*

*San Antonio, Texas*

**[San Antonio's Mission Solar charges up expansion, hiring more employees](#)**

After 10 years of operating in San Antonio, Mission Solar says that it is planning to ramp up production of solar panels at its huge facility by possibly expanding space and its employee head count. Mission Solar says its expansion plans will allow the facility to increase the production of solar panels to 1 gigawatt, a jump from the current 300 megawatts, according to a news release.

Mission Solar is a U.S. subsidiary of the Seoul, South Korea-based OCI Company, which will provide polysilicon for Mission's solar panels. The facility currently sits on 86 acres of land at the former Brooks Air Force Base.

*October 25, 2022*

*Saint Clair, Michigan*

**[MAGNA TO INVEST \\$426 MILLION AND CREATE 920 JOBS IN ST. CLAIR, MICHIGAN](#)**

Magna Electric Vehicle Structures (MEVS) is making a major EV battery production investment of **\$426 million** in a second state-of-the-art manufacturing facility in St. Clair County, Michigan. The facility constructed in the St. Clair Industrial Park in 2021 will be expanded by 740,000 square feet to provide greater e-coating capability, and production and warehousing capacity. The expansion will result in **920 new jobs** being created over three years.

Magna is more than one of the world's largest suppliers in the automotive space. We are a mobility technology company with a global, entrepreneurial-minded team of 161,725 employees and an organizational structure designed to innovate like a startup. With 65 years of expertise, and a systems approach to design, engineering and manufacturing that touches nearly every aspect of the vehicle, we are positioned to support advancing mobility in a transforming industry. Our global network includes 341 manufacturing operations and 89 product development, engineering and sales centers spanning 28 countries.

*October 19, 2022*

*Woodruff, South Carolina*

**[BMW invests \\$1.7 bln to build electric vehicles in U.S.](#)**

BMW AG (BMWG.DE) said on Wednesday it will invest \$1.7 billion to build electric vehicles in the United States, the latest announcement from a major automaker about plans to ramp up U.S. EV production. The German company said it was making a new **\$1 billion** investment in its Spartanburg, South Carolina plant to prepare for EV production and will spend \$700 million on a new high-voltage battery assembly facility in nearby Woodruff, South Carolina, and create at least 300 jobs.





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*October 12, 2022*

*South Boston, Virginia*

**[Hitachi Energy will expand its Virginia power transformer factory to meet soaring US demand](#)**

Global sustainable energy giant Hitachi Energy today announced that it will spend more than **\$37 million** to expand and upgrade its power transformer factory in South Boston, Virginia. This is in response to soaring demand for power transformers from utility companies that are scrambling to accommodate the renewable energy boom after the Biden administration passed the Inflation Reduction Act in August.

The company says it will also invest in automated equipment and changes in factory processes to reduce factory cycle times and improve operational performance. Hitachi notes that the process changes are “particularly critical in the face of current supply chain challenges brought on by the pandemic and other factors.”

*October 12, 2022*

*Preston, Connecticut*

**[FirstLight to Retire Kerosene-Fired Turbine, Plans Hydro-Powered Battery Replacement in Preston](#)**

FirstLight Power said it will retire the last fossil fuel-powered plant in its fleet next year – a more than 50-year-old, 17-megawatt, kerosene-fired turbine – and plans to replace it with a battery storage system with the same capacity. Standing in front of the turbine, tucked behind a farm along the confluence of the Quinebaug and Shetucket rivers, FirstLight CEO Alicia Barton said the visibly aging plant is a symbol of Connecticut’s energy past – and that the company is looking to the future with plans for a 17 MW battery that it would develop with New Leaf Energy

*October 11, 2022*

*Anna, Ohio*

**[Governor DeWine Announces Honda to Invest in Ohio for Electric Vehicle Production, Including New Battery Plant with LG Energy Solution](#)**

Ohio Governor Mike DeWine, Lt. Governor Jon Husted, and JobsOhio leaders announced today that Ohio will continue its historic dominance in the automotive manufacturing industry as Honda selected Ohio to lead its electric vehicle (EV) production and, with LG Energy Solution, a joint venture battery plant... their combined investments of at least \$4.2 billion will create a combined 2,527 new jobs in Ohio between the establishment of a new EV battery plant in Fayette County and the retooling of existing Honda plants in Union, Logan, and Shelby counties for electric vehicle production.



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A total of **\$700 million** will be invested by Honda to retool its Marysville Auto Plant in Union County, Anna Engine Plant in Shelby County, and East Liberty Auto Plant in Logan County, creating **327 new jobs** on top of its current workforce. Once transformed for EV production, the power source for the vehicles made at the Marysville, Anna, and East Liberty factories will come from the new battery plant in Fayette County.

*October 11, 2022*

*Jeffersonville, Ohio*

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Of the total investment announced today, Honda and LG Energy Solution will invest **\$3.5 billion** in the new Fayette County battery plant, which will create at least **2,200 new jobs**.

*October 11, 2022*

*Fridley, Minnesota*

### **Cummins picks Fridley for 1st US electrolyzer production plant**

Monday, Cummins said it will dedicate 89,000 square feet of its existing facility in Fridley to electrolyzer production. Electrolyzers separate water into oxygen and hydrogen. When done using renewable electricity, it makes “green” or carbon-free hydrogen that can be stored as a compressed gas or liquid and used as a clean power source for a variety of sectors, Cummins says.

“Expanding Cummins’ electrolyzer manufacturing footprint to the United States is a milestone not only for our company but an important step in advancing global decarbonization efforts,” Alexey Ustinov, the vice president of electrolyzers at Cummins, said. “This is a reflection of increasing government support through the Inflation Reduction Act, Hydrogen Hubs and a blossoming hydrogen economy in the states. Cummins’ ability to leverage our manufacturing, engineering and sourcing knowledge to build capacity will help us meet increased customer demand and continue to accelerate the clean energy transition.”

*October 11, 2022*

*East Liberty, Ohio*

### **Governor DeWine Announces Honda to Invest in Ohio for Electric Vehicle Production, Including New Battery Plant with LG Energy Solution**



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*October 11, 2022*

*Marysville, Ohio*

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*October 10, 2022*

*Massena, New York*

### [\*\*Air Products to invest about \\$500M to build green hydrogen production facility in New York\*\*](#)

Air Products announced plans to invest approximately **\$500 million** to build, own and operate a 35 metric ton per day facility to produce green liquid hydrogen at a greenfield site in Massena, New York, as well as liquid hydrogen distribution and dispensing operations.

In support of this Air Products' project, in July 2022, the New York Power Authority (NYPA) board approved 94 MW of low-cost St. Lawrence hydroelectric power to Air Products for its significant investment and the creation of **90 jobs** in New York State. This project supports New



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York State's goal of becoming a Regional Clean Energy Hydrogen Hub, as announced by Governor Kathy Hochul in March 2022. New York's hydrogen hub ambitions directly support the goals of the State's Climate Leadership and Community Protection Act.

*October 6, 2022*

*Big Rapids, Michigan*

### **[Gotion facility in Big Rapids will lead the way in electric vehicle manufacturing](#)**

With the recent announcement that the Michigan Strategic Fund board unanimously approved a state incentive package to support Gotion Inc. in the installation of a major electric battery component manufacturing facility in Michigan, local officials are anticipating moving forward with bringing the facility to Big Rapids.

Gov. Gretchen Whitmer said in a news release that Gotion's **\$2.36 billion** investment, which is expected to create up to **2,300 "good-paying" jobs**, is the "biggest ever economic development project in Northern Michigan and will shore up the states' status as a global hub of mobility and electrification."

*October 6, 2022*

*Salem, Massachusetts*

### **[Salem Harbor Wind Terminal Powers Ahead](#)**

Crowley has completed the purchase of 42 acres in Salem, Massachusetts, which will serve as the future home of the Salem Harbor Wind Terminal, the second major offshore wind port terminal in the state. The terminal site project will result in the redevelopment of the former Salem Harbor Station, a decommissioned coal-fired energy plant creating more than 800 jobs (FTE job years) in the support of the construction and staging of offshore wind projects and daily operations. The Salem Harbor Wind Terminal is a public-private partnership signed between Crowley and the city of Salem, with AVANGRID serving as the port's anchor tenant through its Commonwealth Wind and Park City Wind projects.

*October 5, 2022*

*Van Buren Township, Michigan*

### **[ONE Announces \\$1.6 Billion Investment in 20 GWh Michigan Cell Factory Beginning LFP Production in 2024](#)**

Our Next Energy (ONE), a Michigan-based energy storage technology company, today announced a **\$1.6 billion** investment in a new battery cell manufacturing plant, called ONE Circle, in Van Buren Township, Michigan. The recently constructed facility is expected to create **2,112 new jobs** when operating at its full annual capacity of 20 GWh by the end of 2027, equivalent to 200,000 electric vehicle battery packs annually.

ONE will offer an average annual salary of \$67,456 (38% above the ALICE wage threshold), as well as industry-leading benefits and a comprehensive training program. Over the course of 20



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years, ONE Circle is expected to generate \$967 million in state taxes and more than \$13 billion in new personal income.

*October 4, 2022*

*Osceola, Arkansas*

### **[Entergy Arkansas announces 250-MW solar facility near Osceola](#)**

The Arkansas Public Service Commission has approved the Entergy Arkansas Driver Solar Project, a new 250-megawatt AC (or 312 MW DC) renewable energy plant developed by Lightsource bp, which will be located on approximately 2,100 acres near Osceola in Mississippi County. Driver Solar will be the utility's largest solar facility, capable of generating enough energy to power more than 40,000 homes..... Driver Solar is expected to provide between 350 and 400 jobs during the construction phase, utilizing the local workforce and subcontractors.

*October 3, 2022*

*Ellicott, New York*

### **[Governor Hochul Announces Electrovaya to Establish Lithium-Ion Gigafactory in Chautauqua County](#)**

Governor Kathy Hochul today announced Electrovaya, Inc., a producer of lithium-ion batteries for transportation and utility storage, has selected the Town of Ellicott in Chautauqua County as the location for its first U.S. plant. The publicly traded company will create its newest production facility, generating up to **250 jobs** and, when fully operational, producing over a GWh of batteries annually. The investment supports the broader New Energy New York initiative, whose goal is to create a National Hub for Battery Innovation and Manufacturing..... The initial cost for the facility has been placed at approximately \$75 million, and it is expected to open in the fall of 2023.

Electrovaya Inc. with industry-leading performance and substantial intellectual property, is a leader in the global energy transformation, focused on contributing to the prevention of climate change through supplying safe and long lasting lithium ion batteries. Electrovaya designs, develops and manufactures proprietary lithium-ion batteries, battery systems and battery-related products for energy storage, clean electric transportation and other specialized applications.

*September 28, 2022*

*Eloy, Arizona*

### **[New Lithium-Ion Battery Recycling Facility to Produce Critical Materials for North American Battery Supply Chain](#)**

Heritage Battery Recycling, an affiliate of Cirba Solutions, the largest and most comprehensive cross-chemistry battery management and materials processor in the industry, today announced plans to construct a lithium-ion battery recycling facility in Eloy, Arizona. Battery recycling is



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helping close the critical materials supply gap needed to support the increased electric vehicle (EV) and lithium-ion battery manufacturing in the US, while also increasing access to recycled content for batteries.

Cirba Solutions is the only complete service provider in the battery management industry with an operational, differentiated platform and a full suite of capabilities to address lithium-ion and cross-chemistry battery demand and enable a circular battery supply chain for the industry. It is the leader in end-to-end battery recycling management solutions, offering battery-centric logistics, collection program solutions, second-life applications, with technological processes that emphasize sustainability principles.

*September 27, 2022*

*Cumberland City, Tennessee*

### **Cumberland City to have the next Daejin Advanced Materials USA Inc. operation**

A Mastered In Tennessee release announced a **\$10.2 million** investment from Daejin Advanced Materials USA Inc. will go to establish operations in Cumberland City. The announcement came from Tennessee's Governor, Bill Lee, Department of Economic and Community Development Commissioner, Stuart McWhorter, and Daejin officials... The facility will be located in the Stewart-Houston County Industrial Park and will create **83 new jobs** over a 5-year period.

The company was founded in 2019 and specializes in the research and development and manufacturing of polymers for the electric vehicle battery industry. It is also a Korean-based Daejin Advanced Materials subsidiary, which employs approximately 1,000 people across Asia, Europe, and the U.S.

*September 27, 2022*

*Toledo, Ohio*

### **GM to invest millions for electric vehicle manufacturing in Toledo**

The GM Executive Vice President, Gerald Johnson, announced that GM will invest **\$760 million** to the GM Toledo Propulsion Systems Facility to begin the transition to EV manufacturing. "Part of that transition is to parallel work of EV propulsion and internal combustion propulsion and what we're going to do in Toledo is just that," said Johnson. While the Toledo plant will continue to work on internal combustion propulsion, this investment will allow the plant to introduce EV propulsion, specifically EV drive units. According to UAW Local 14 President Ray Curry, this is the very first investment in an existing propulsion facility to transform it into EV production.

*September 23, 2022*

*Marlborough, Massachusetts*

### **Northborough firm to open Marlborough research facility for electric vehicle technology**



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Aspen Aerogels will use the nearly 59,000 square feet of space to work on its advanced thermal barrier center and provide engineering support for e-mobility and battery energy storage system customers, according to a press release from McCord. The center will support the company's expansion into the electric vehicle market as well as hosting a customer engagement center and its technical support team.... Aspen Aerogels anticipates **75 people** will work at the Marlborough facility.

*September 21, 2022*

*Houston, Texas*

### **[SEG Solar to build PV module manufacturing plant in Texas](#)**

SEG Solar has announced that it plans to establish a PV module manufacturing plant in Houston, Texas, with an anticipated annual capacity of more than 2 gigawatts (GW)... The company said that construction of the facility will commence at the end of 2022, and that it expects it to be fully operational by mid-2023. The plant will be equipped with three state-of-the-art production lines capable of producing high efficiency N-type Topcon solar modules with 182mm or 210mm solar cells... It is expected that the plant will create as many as **500 new jobs** in the local Houston area.

Founded in 2016, SEG is based in Texas and has supplied modules for over 1.2 GW of PV projects in the US market. The company provides high-performance and reliable PV modules for the utility, commercial and residential markets.

*September 15, 2022*

*Marion, Indiana*

### **[State, GM announce \\$491 million expansion of Marion GM operations for electric vehicle production | The Republic News](#)**

Gov. Eric J. Holcomb joined local officials and executives of General Motors Co. (NYSE: GM) Thursday in Grant County as the company announced plans to invest **\$491 million** to expand and upgrade its operations in Marion, supporting GM's electric vehicle (EV) production.

Established in 1956, Marion Metal Center, which employs more than 750 associates, will now play a critical role in accelerating GM's transition to an all-electric future. These investments are part of the company's plans to invest \$35 billion in EV and AV through 2025, accelerating its EV production, advancing battery and fuel cell technology through its Ultium battery platform and HYDROTEC fuel cells, and investing in EV charging infrastructure.

*September 14, 2022*

*Columbia, South Carolina*

### **[A new factory in South Carolina will make up to 10,000 EV chargers a year](#)**

Global EV charging infrastructure company ABB E-mobility today announced that it will spend **\$4 million** to open an EV charger factory in Columbia, South Carolina. The new South Carolina



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facility will be capable of producing up to 10,000 EV chargers per year. The chargers, which will range from 20 kW to 180 kW in power, are intended for public use, school buses, and fleets.

ABB's US headquarters is in Cary, North Carolina. Its South Carolina-manufactured EV chargers will meet the Federal Highway Administration's proposed Buy America Act framework as well as the National Electric Vehicle Infrastructure program's requirements.

*September 13, 2022*

*Ravenswood, West Virginia*

### **Gov. Justice: BHE Renewables and WV announce \$500m investment to build global aerospace manufacturing hub powered by renewable energy microgrid**

Gov. Jim Justice announced today that BHE Renewables, a Berkshire Hathaway Energy business, has entered into an agreement with the State of West Virginia to purchase more than 2,000 acres of land in Ravenswood, West Virginia, to be developed as a first-of-its-kind renewable energy microgrid-powered industrial site. Precision Castparts Corp. ("PCC"), a Berkshire Hathaway Inc. business, will be the first company to locate on the site and will develop a state-of-the-art titanium melt facility that will use 100% renewable energy to manufacture titanium products for the aerospace and other industries. The West Virginia Economic Development Authority will work with BHE Renewables to bring additional businesses to the site to take advantage of the prime manufacturing location and renewable energy infrastructure.

*September 13, 2022*

*McClellan Park, California*

### **SPI Energy Accelerates Growth of Solar Module Manufacturing Capacity to Meet Strong Demand**

SPI Energy Co., Ltd., (NASDAQ:SPI) (the "Company"), a global renewable energy company and provider of solar storage and electric vehicle (EV) solutions for business, residential, government, logistics and utility customers, signed a new lease for additional property and facilities at McClellan Park, CA located adjacent to the Company's Solar4America (S4A) subsidiary's current solar module manufacturing facility. The expansion will enable S4A to meet the strong demand for its American-made solar modules.

SPI Energy Co., Ltd. is a global renewable energy company and provider of solar storage and electric vehicle (EV) solutions that was founded in 2006 in Roseville, California and is headquartered in McClellan Park, California. The company has three core divisions: SolarJuice which has solar wholesale distribution, as well as residential solar and roofing installation and solar module manufacturing, SPI Solar and Orange Power which operates a commercial & utility solar division, and the EdisonFuture/Phoenix Motor EV division.

*September 9, 2022*





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*Siler City, North Carolina*

### **Governor Cooper Announces Wolfspeed Selects North Carolina for 445 Acre Manufacturing Campus**

Wolfspeed, Inc., a leading manufacturer of Silicon Carbide semiconductors, will create more than **1,800 new jobs** in Chatham County by 2030, Governor Roy Cooper announced today. The company will construct a manufacturing campus for the production of Silicon Carbide materials with an investment of approximately **\$5 billion** over the next eight years in the Town of Siler City.

Founded and headquartered in Durham, North Carolina, Wolfspeed is the global leader in the production of Silicon Carbide materials and devices which support sustainability through a more efficient use of energy than traditional semiconductor technology. This technology is used in a variety of applications including electric vehicles, 5G networks, and renewable energy and storage. The company's expansion at the Chatham-Siler City Advanced Manufacturing Site will produce the Silicon Carbide materials to make semiconductor chips and devices that more efficiently power electric vehicle inverters and charging systems.

*September 7, 2022*

*Saginaw, Michigan*

### **Hemlock Semiconductor Expands Thomas Township, Michigan, Operations**

Hemlock Semiconductor Operations will modernize and expand operations in Thomas Township, Michigan. The **\$375 million** project is expected to create **170 jobs**... "We built our global reputation on the ability to stay at the forefront of high-tech polysilicon production for the critical semiconductor and solar industries," said Hemlock Semiconductor Operations Chairman and CEO AB Ghosh. "This investment in local infrastructure supports HSC's ability to improve and expand our operations and helps us remain globally competitive. Today's announcement proves Michigan is serious about prioritizing the growth of high-tech businesses. We thank Governor Whitmer and the Michigan Economic Development Corporation for ensuring the U.S. leads in crucial, silicon-enabled technologies."

Hemlock Semiconductor is the largest and only producer of hyper-pure polysilicon headquartered in the United States. Founded in 1961, the company is owned by Corning Inc. and Shin-Etsu Handotai.

*September 7, 2022*

*Elizabethtown, Kentucky*

### **Nanomaterials Manufacturer to Invest \$50 Million in Facility to Supply EV Market**

A developer of carbon battery nanomaterials plans to spend nearly **\$50 million** to establish a new facility in Central Kentucky, state and company officials announced. Advanced Nano Products will construct a 50,000-square-foot building on nearly 23 acres in Elizabethtown beginning next February. The project is expected to create **93 jobs**... ANP's carbon nanomaterials serve as conductors for the cathode and anode in mass-produced electric vehicle (EV) batteries. State officials said the Elizabethtown facility would supply numerous battery manufacturers in the region, particularly the forthcoming BlueOvalSK Battery Park campus in Kentucky announced last year.



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ANP, based in South Korea, established its EV segment in 2016 and has partnered with battery makers Samsung SDI, LG, and SK Innovation. The company also makes materials for solar energy applications and television displays. Kentucky officials said the electric vehicle-related economic development projects announced in the state in the past two-plus years alone would amount to more than \$8.5 billion in capital spending and over 8,000 jobs.

*September 2, 2022*

*Ulster County, New York*

### **Zinc8 to manufacture its first zinc-air batteries in the U.S.**

Zinc8 Energy Solutions Inc. announced that the company's inaugural commercial production facility will be based in Ulster County in New York. Based upon comprehensive analysis done by the company, the recently announced Inflation Reduction Act (IRA) manufacturing production credits provide distinct and direct benefits to Zinc8, influencing its production plans in the United States.... Zinc8 signed a letter of intent to move into iPark87, which is the former TechCity campus now being redeveloped as an EPA cleanup site. Senator Schumer said that with Zinc8 as an anchor tenant of iPark87, the Hudson Valley could see up to **500 new**, good paying clean energy jobs.

*August 31, 2022*

*Liberty, North Carolina*

### **Toyota Announces \$2.5B Expansion of North Carolina Plant with 350 Additional Jobs and BEV Battery Capacity**

Toyota announced an additional investment of **\$2.5 billion** in its newest North American facility, Toyota Battery Manufacturing North Carolina (TBMNC). This investment adds capacity to support battery electric vehicle (BEV) battery production and adds **350 jobs**, bringing the total employment to approximately 2,100. Scheduled to begin production in 2025, the facility will produce batteries for hybrid electric vehicles (HEV) and BEVs.

Last year, Toyota Motor Corporation announced a global investment of approximately \$70 billion (8 trillion JPY\*) for electrification efforts. Today, as part of this aspirational goal, TMC announced a future battery production commitment of up to \$5.6 billion (730 billion JPY), which includes the new North Carolina investment.

*August 30, 2022*

*Northern West Virginia*

### **Electric battery maker to locate factory in northern WV**

The energy startup SPARKZ said Tuesday it will locate an electric battery factory in northern West Virginia...The batteries will be built at a 482,000-square-foot (4.5-hectare) plant in Taylor County off U.S. Route 50 near Bridgeport, the company said in a statement. The plant, which



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eventually will employ 350 workers, originally was a glass factory that ceased operations in 2009....The plant will produce cobalt-free batteries, an effort to bring down the cost of U.S. lithium-ion battery production. The Democratic Republic of Congo has historically been the top producer of cobalt worldwide, with most mines controlled by Chinese companies.

*August 30, 2022*

*Perrysburg, Ohio and Lake Township, Ohio*

### [First Solar to Invest Up to \\$1.2 Billion in Scaling Production of American-Made Solar by 4.4 GW](#)

First Solar, Inc. (Nasdaq: FSLR) today announced that it plans to invest up to **\$1.2 billion** in scaling production of American-made, responsibly-produced photovoltaic (PV) solar modules, directly supporting the country's transition to a decarbonized future and enabling the fight against climate change. The investment is forecast to expand the company's ability to produce American-made solar modules for the US solar market to over 10 gigawatts (GW)DC by 2025.

As part of its push to scale US production of solar modules, the company intends to build its fourth, fully vertically integrated domestic factory, with an annual capacity of 3.5 GWDC, in the US Southeast. First Solar, the only US-headquartered company among the world's ten largest solar manufacturers, expects to invest up to \$1 billion in the new factory, which, contingent upon permitting and pending approval of various federal, state, regional, and local incentives, is expected to commence operations in 2025.

*August 29, 2022*

*Shelbyville, Tennessee*

### [Vehicle Battery Materials Maker Announces \\$95 Million Tennessee Plant](#)

A manufacturer of electrolyte material for electric vehicle batteries plans to establish its first U.S. production facility in central Tennessee, state and company officials announced.

Duksan Electera America, a division established by South Korean materials company Duksan Group last year, will invest **\$95 million** to build a new facility in Shelbyville, Tennessee. Company officials said the site would be close to its automotive sector customers in the southeastern U.S. Duksan is slated to provide some 60,000 tons of electrolyte to the region's vehicle battery manufacturers.

The project is expected to create **101 jobs** over the next five years.

*August 25, 2022*

*Methuen, Massachusetts*

### [Factorial Energy to Open New Solid-State EV Battery Development and Manufacturing Facility](#)

(BUSINESS WIRE)--Factorial Energy (Factorial), an industry leader in the development of solid-state battery technology for electric vehicle (EV) applications, today announced it will establish a new advanced manufacturing facility in the Boston suburb of Methuen, Mass. The



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new facility will produce Factorial's innovative new solid-state battery cell technology for EVs. A groundbreaking ceremony will be held at the site in Methuen at 3:00 pm EDT today.

The new production site at 501 Griffin Brook Drive in Methuen was recently secured by Factorial with the support of the Massachusetts Office of Business Development and the City of Methuen's Economic and Community Development Department. The existing 67,000 square-foot building on the site will undergo extensive buildout to house Factorial's pilot production facility, which will manufacture automotive-sized solid-state batteries at pre-production speed and volume. Factorial will invest **\$45 million** in the facility, which is expected to begin operations in early 2023 and will bring **166 new jobs** to the Methuen community.