

ONE YEAR OF OUR CLEAN ENERGY BOOM

THE 170,606 (AND COUNTING) NEW CLEAN ENERGY JOBS ACROSS THE UNITED STATES

UPDATED: JULY 25, 2023

Since the Inflation Reduction Act (IRA)'s landmark climate and clean energy investments became law in August 2022, companies have been racing forward with massive investments to build our clean energy future. New manufacturing in wind, solar, batteries, electric vehicles (EVs), and storage projects across the country mean new, good-paying jobs for hard-working Americans. In just under a year, companies have announced or moved forward with projects accounting for **more than 170,600 new clean energy jobs** for electricians, mechanics, construction workers, technicians, support staff, and many others.

As the largest U.S. investment in climate and clean energy in history, President Joe Biden's Clean Energy Plan will continue to reshape and recharge our economy for decades to come. The Made in America clean energy boom is just getting started.

This report analyzes public announcements from the private sector since the passage of the IRA to demonstrate the breadth and scale of the growing clean energy economy being built all across the country. It also provides a breakdown of the data by state, by sector, and by congressional district.

MORE THAN 170,606 NEW JOBS ACROSS THE COUNTRY

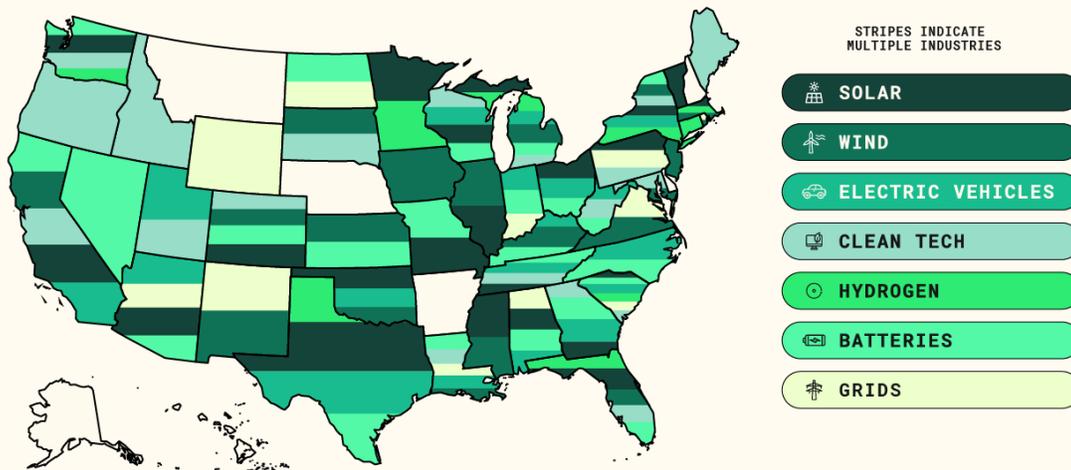
Clean energy projects creating **170,606 new jobs** in **44 states** were announced or advanced between August 16, 2022, and July 20, 2023. There are **272 new clean energy projects** in small towns and big cities nationwide, totaling **\$278 billion in new investments**.

Plans include 91 new battery manufacturing sites in places like Tucson, Arizona; Rochester, New York; and Florence County, South Carolina. So far, companies have announced plans for 65 new or expanded electric vehicle manufacturing facilities in Savannah, Georgia;

Montgomery, Alabama; Auburn Hills, Michigan — and more. A further 84 plans were announced to develop wind and solar manufacturing in cities including Cochran, Pennsylvania; Pensacola, Florida; and Georgetown, Texas. The majority of projects are in five states — Michigan, Georgia, South Carolina, California, and Texas.

Most of the new clean energy projects are also located in Congressional Districts represented by Republican members of the House of Representatives. Since the passage of the IRA, 96,216 new jobs and over \$224.8 billion in investments have been announced across 152 clean energy projects in 92 Republican-held districts.

NEW CLEAN ENERGY JOBS SINCE THE PASSAGE OF THE INFLATION REDUCTION ACT



SOURCED FROM NEWS ANNOUNCEMENTS AS OF 07.25.23

The jobs being created across the country are good-paying opportunities for electricians, mechanics, construction workers, technicians, support staff, and thousands of others. Many of these clean energy jobs come with [higher wages](#) and good benefits without the requirement of a four-year degree — meaning they’re accessible to most Americans. Research from the [Brookings Institution finds](#) that landing a clean energy job can result in an eight to 19 percent income increase, and 45 percent of all workers in clean energy production only have a high school diploma, while earning higher wages than similarly educated peers in other industries.

The transition to a clean energy economy will benefit union workers. According to the [Department of Energy's](#) recent U.S. Energy & Employment Jobs Report, the percentage of workers represented by a union or covered under a project labor or collective bargaining

agreement in the transmission, distribution, and storage (18%), solar (11%), and wind (12%) sectors is equal to or higher than the overall energy workforce average (11%) — and significantly higher than the national private sector average (7%.) The IRA includes strong labor provisions and incentives to ensure these new clean energy jobs will lead to careers that will truly sustain these workers and their families. We are already seeing increased investments in facilities with union labor. For example, GM is expanding employment at facilities in [Toledo, Ohio](#), and [Marion, Indiana](#), that are represented by the United Auto Workers union (Local 14 and Local 977, respectively) to produce components for EVs. In West Virginia, SPARKZ announced plans for a battery plant with an [agreement with United Mine Workers](#) to recruit and train dislocated miners to be the factory’s first production workers. In Nevada, Redwood Materials’ McCarren battery materials campus is [set to create](#) 3,400 good-paying construction jobs for union, minority, and/or woman-owned business enterprises, and in New York, GE [reached an agreement with IUE-CWA unions](#) that the company would remain neutral during the labor organizing process for its new wind turbine production facilities.

Driven in part by the certainty created by the Clean Energy Plan and its incentives to build the clean energy future here at home, American companies restored almost [350,000 manufacturing jobs](#) in 2022 — a 25 percent increase from 2021. [An analysis](#) by the BlueGreen Alliance and the Political Economy Research Institute at the University of Massachusetts Amherst projects that the IRA will create over 9 million clean energy and climate-related jobs over the next decade.

THE CLEAN ENERGY ECONOMIC BOOM BY STATE

States around the country have already benefited from the provisions of the national Clean Energy Plan. Even [climate skeptics have touted the benefits of the law](#) and have celebrated clean energy project announcements in their districts because they now understand that the Clean Energy Plan means big investments and new jobs in their communities. In just a year, the Clean Energy Plan has significantly benefited local economies and will provide family-sustaining wages in ZIP codes from coast to coast. The local economic benefits will continue to spread across the country. In the second quarter of 2023 alone, 80 new clean energy projects were announced or advanced, including projects in two new states: Pennsylvania and Wyoming.

10 STATES WITH MAJORITY OF PROJECTS	
STATE	# OF PROJECTS
MICHIGAN	24 PROJECTS

GEORGIA	22 PROJECTS
SOUTH CAROLINA	20 PROJECTS
CALIFORNIA	16 PROJECTS
TEXAS	14 PROJECTS
TENNESSEE	13 PROJECTS
ARIZONA	13 PROJECTS
NEW YORK	12 PROJECTS
OHIO	12 PROJECTS
NORTH CAROLINA	9 PROJECTS

Below are a few snapshots of the clean energy boom in states across the country.

ARIZONA

Arizona is becoming a clean energy and EV manufacturing powerhouse. Clean energy investments have already spurred \$8.31 billion in investment and helped create or move forward over 12,700 good-paying clean energy jobs in the state. A few highlights in Arizona:

- In June 2022, LG Energy Solutions (LGES) put its \$1.4 billion Queen Creek facility on hold when the Build Back Better Act failed to pass. Following the IRA’s passage, LGES announced it would invest \$5.6 billion in the previously paused Arizona gigafactory. An LGES Executive said the company was adjusting plans for the project to meet the growing demand for U.S.-made EV batteries that qualify for IRA tax credits, a fourfold increase from previous plans.
- American Battery Factory announced a \$1.2 billion investment to build a lithium battery gigafactory in Tucson, which the company projects will create 1,000 new jobs.
- KORE Power CEO Lindsay Gorrill applauded the IRA’s passage and said it provides an “incredible lift” to his company’s 1.3 million square foot battery manufacturing development in Buckeye. The U.S. Department of Energy’s Loan Programs Office has conditionally approved a loan for the construction of the facility, which will mean 700 construction jobs. The battery facility is expected to employ 1,250 when fully operational.
- Cirba Solutions announced it would build a new lithium-ion battery recycling facility in Eloy, citing new incentives from the IRA.

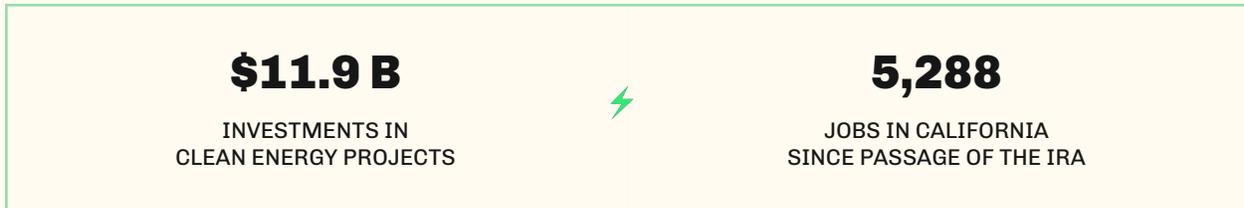
- After acquiring Sun Streams 3 from First Solar in February 2021, Longroad Energy completed financing for a Maricopa County project in January 2023. [Longroad's CEO said](#) he believes the IRA will enable future developments and benefit utilities and ratepayers.



CALIFORNIA

California is a leader in the nation’s clean energy boom, with 16 new clean energy projects announced in the state within the last year. Clean energy investments have already spurred \$11.9 billion in investment and helped create or move forward nearly 5,300 good-paying clean energy jobs in the state. A few highlights in California:

- In May 2023, [Moxion announced it would](#) open a gigafactory in Richmond, creating 800 new jobs after the company’s CEO called the IRA a “[huge value creator](#)” that would accelerate domestic battery market opportunities.
- Newly-launched company Statevolt has plans to construct a [\\$4 billion, 54 GWh lithium-ion manufacturing plant in Southern California](#), to further the production of EV batteries in the state. Statevolt’s CEO called the IRA a “[game-changer for the U.S. energy transition value chain](#).” Statevolt is also prioritizing a “hyperlocal” business model that will create [good-paying jobs](#) in California’s Imperial Valley.



COLORADO

Colorado is becoming a powerhouse for wind manufacturing. Clean energy investments have already spurred \$1.76 billion in investment and helped create or move forward over 3,500 good-paying clean energy jobs in the state. A few highlights in Colorado:

- CS Wind announced plans to [expand the largest wind turbine factory in the world](#), located in Pueblo. Vestas invested \$40 million to expand its nacelles manufacturing facility in Brighton and its blades manufacturing facility in Windsor and expects to hire [800 new local employees](#). Vestas offers an [internship program through local high schools](#) and expects to hire 150 new high school graduates in the coming years.
- VSK Energy announced plans to build a solar manufacturing plant in Brighton [because of the IRA](#), creating 900 jobs with average annual wages of over \$70,000 per year.
- In July 2023, Meyer Burger announced a [\\$400 million investment](#) in a solar cells manufacturing facility in Colorado Springs that will create more than 350 jobs with an average annual salary of \$77,000 per year. Meyer Burger cited the [IRA's tax credits](#) as driving its decision to move solar module production to the U.S.



GEORGIA

Georgia is second only to Michigan in leading the country’s clean energy boom, with 22 new projects announced in the state within the last year. Clean energy investments have already spurred \$18.83 billion in investment in Georgia and helped create or move forward over 16,600 good-paying clean energy jobs in the state. A few highlights in Georgia:

- In July 2023, Kia [announced a \\$200 million investment](#) at its existing West Point plant to manufacture its first EV assembled in the U.S. The facility expansion will qualify Kia for [tax credits](#) under the IRA, create 200 new jobs, and [will feature the Kia Georgia Training Center](#) to provide job training.
- Hyundai is investing significantly in two gigafactories in Georgia to build Hyundai and Kia EVs. The two sites, a [\\$4 to \\$5 billion factory with SK On](#) near Atlanta and a

\$4.3 billion plant with LG in Savannah, are set to create 6,500 jobs. The IRA drove the significant investment in the state.

- In March 2023, FREYR's CEO said the company was "accelerating investment" for its \$2.6 billion Georgia battery facility to benefit from IRA tax credits, creating over 700 jobs in Coweta County.
- Georgia's solar manufacturing industry is booming. Following a November 2022 statement about how the IRA would drive increased hiring, QCells announced it would more than double its Georgia manufacturing facilities. The expansion will create over 2,500 new jobs in the state, where the company has invested over \$2.5 billion.
- In March 2023, Hanwha Advanced Materials announced a \$147 million investment in a new solar manufacturing plant in Cartersville to supply QCells' nearby solar facility. The investment will create more than 160 new jobs, and according to reports, the company's "extensive investment in the solar panel supply chain is a result of the passage of manufacturing tax credits in the Inflation Reduction Act."



MICHIGAN

Michigan is leading all other states in the nation's clean energy boom, with 24 new projects announced in the state within the last year. Clean energy investments have already spurred \$21.03 billion in investment and helped create or move forward over 15,800 good-paying clean energy jobs in the state. A few highlights in Michigan:

- Michigan's EV industry is booming — and the IRA is driving investments. In October 2022, Michigan-based Our Next Energy (ONE) announced it would invest \$1.6 billion to establish a battery cell manufacturing plant in Van Buren Township. ONE's founder called the IRA an "enormous gift" to shape the future of EVs.
- EVs aren't the only clean energy industry in the Mitten State seeing massive investment. In May 2023, Polar Racking announced it would open a new manufacturing facility in Michigan to produce solar mounting solutions. A Polar Racking executive directly cited the IRA as a reason to expand the company's manufacturing operations.

- In May 2023, Nel Hydrogen announced plans to open a ‘gigawatt electrolyzer’ manufacturing facility in Michigan, a \$400 million investment that will employ over 500 people. The project will benefit from the IRA’s new tax credits for clean hydrogen production.
- Magna invested \$526 million across several expansion projects in October 2022 to further Michigan’s status as the “home of the auto industry and the future of mobility in Michigan,” according to Governor Whitmer. In March 2023, Magna announced an additional \$100 million investment to open a new seating plant to supply GM EVs in Auburn Hills. The facility is expected to create 500 new jobs, which would be represented by the United Auto Workers union.
- In October 2022, Lear announced it would open a \$112.5 million battery plant in Independence Township. The plant will build battery connector units for GM EVs, and news reports state the expansion was “in response to incentives for on-shoring included in the Inflation Reduction Act.”
- In December 2022, Ultium received a \$2.5 billion Department of Energy loan thanks to the IRA for three EV battery factories, including a \$2.6 billion Ultium and LG Energy Solutions manufacturing plant in Lansing. Ultium broke ground on the Lansing facility in September 2022.

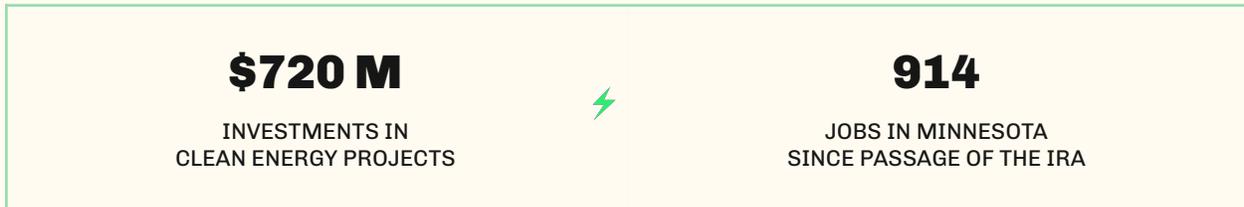


MINNESOTA

Minnesota’s clean energy economy continues to grow. In Minnesota, clean energy investments have already spurred \$720 million in investment and helped create or move forward over 900 good-paying clean energy jobs in the state. A few highlights in Minnesota:

- Cummins is driving the clean hydrogen economy forward in Minnesota with the October 2022 announcement of its first U.S. electrolyzer production facility in Fridley.
- In July 2023, Heliene announced a \$145 million investment to open a new manufacturing facility in the Minneapolis-St. Paul area that would make the company the first U.S. supplier of polysilicon-based cells. The decision to invest in the U.S., and the supporting financing, was in response to the IRA.

- In September 2022, regulators approved Xcel Energy’s plans to [build Minnesota’s largest solar power plant](#), replacing electricity lost from closing coal-fired power plants across the state. The company also recently [announced the addition of battery storage](#) at the site, which increases the grid’s renewable capacity.



NEVADA

Nevada is becoming a central player in battery manufacturing in the U.S. Clean energy investments have already spurred \$9.14 billion in investment in Nevada and helped create or move forward 11,500 good-paying clean energy jobs in the state. A few highlights in Nevada:

- On February 9, 2023, the [Department of Energy announced](#) a \$2 billion loan commitment to Redwood Materials to build and expand a [\\$3.5 billion](#) battery materials campus in McCarran. The project will create 3,400 good-paying union construction jobs and employ approximately 1,600 full-time employees, including labor, technical staff, and on-site management. In addition, Redwood Materials [will rely on](#) a construction workforce comprised of union, minority, and/or woman-owned business enterprises.
- In November 2022, [Redwood Materials received](#) the final tax credits for the [planned expansion](#) of its Storey County Campus anode and cathode battery manufacturing facility. The \$1.1 billion expansion is expected to create [700 new jobs](#).
- The Department of Energy funded several projects to help Nevada achieve its goal of becoming the “[Silicon Valley of lithium](#).” As part of these grants, [Lilac Solutions received](#) a \$50 million Bipartisan Infrastructure Law grant for a project that will create 250 new jobs and invest a total of \$179 million in the state.
- After the passage of the IRA, [Tesla announced](#) it was resuming an expansion of its Nevada Gigafactory it had delayed for five years. The [\\$3.6 billion expansion](#), which will enable the production of 105 GWh of battery cell production and over 150 GWh of battery packs annually, is expected to create 3,000 new jobs in the state.





NEW YORK

New York is becoming a key hub for offshore wind and battery manufacturing. Clean energy investments have already spurred \$101.57 billion in investment in New York and helped create or move forward over 13,500 good-paying clean energy jobs in the state. A few highlights in New York:

- Furthering New York’s goal of becoming the nation’s offshore wind manufacturing hub, [GE proposed two new offshore wind energy manufacturing facilities](#) in the state. GE also recently [announced a \\$50 million investment](#) at its Schenectady wind manufacturing facility, creating 200 additional jobs. In announcing the \$50 million investment in May 2023, [GE said the IRA](#) played an “important role” by “revitalizing the market, increasing demand for renewable energy, and enabling energy security and competitiveness.” In May 2023, [GE announced it worked with the IUE-CWA unions](#) to reach a labor peace agreement, where GE would remain neutral during the labor organizing process for the new facilities.
- New York’s battery manufacturing industry has seen a similar boom in investment. In January 2023, [Zinc8 Energy Solutions announced a \\$68 million investment plan](#) to relocate its battery manufacturing facility and U.S. headquarters to the mid-Hudson region, and GM announced a [\\$68 million investment to upgrade its Rochester plant](#) for EV battery components.



NORTH CAROLINA

North Carolina is becoming a hub for the EV and battery manufacturing sectors, which represent all 9 of the state's new clean energy projects announced within the last year. Clean energy investments have already spurred \$9.61 billion in investment in North Carolina and helped create or move forward over 4,100 good-paying clean energy jobs in the state. A few highlights in North Carolina:

- Toyota [tripled its investment](#) in North Carolina after the IRA passed, [injecting \\$2.5 billion more](#) into its Liberty EV battery manufacturing facility.
- [Wolfspeed announced plans to build](#) the world's largest silicon carbide materials facility in Chatham County, producing a material used for components in EVs and solar equipment and creating 1,800 jobs.
- In May 2023, EV charger manufacturer [Alpitronic announced plans](#) for a \$9.3 million tech and repair facility and headquarters in Charlotte, [creating 300 new jobs](#) with an average salary of over \$90,000.
- Atom Power announced two expansions at its Huntersville factory since the Inflation Reduction Passed, [investing a total of \\$154 million](#) and [creating 375 new jobs](#) with an average salary of \$92,000.
- In February 2023, Kempower [credited the IRA](#) for the company's decision to build a \$41 million EV charging station manufacturing facility in Durham.



OHIO

Ohio's EV economy is setting records, with the sector representing a majority of the state's 12 new clean energy projects announced within the last year. Clean energy investments have already spurred \$8.03 billion in investment and helped create or move forward over 5,300 good-paying clean energy jobs in the state. A few highlights in Ohio:

- [Honda and LG Energy Solutions announced a \\$4.4 billion investment](#) in an EV battery plant project in Fayette County, the largest direct private investment in Ohio's history. President Biden said the facility, which will create 2,200 jobs, was an example of the economic benefits of the IRA and ["another win for America and another win for Ohio."](#)

- In February 2023, EdgeEnergy, an EV charger power converter manufacturer and member of the White House Infrastructure Talent Pipeline Challenge, announced a [\\$150 million investment](#) to expand its manufacturing operation in Cincinnati.
- Ohio is seeing massive new investments in solar manufacturing thanks to the IRA. First Solar announced a \$680 million investment to expand manufacturing in Ohio, creating at least 850 new manufacturing jobs statewide. In a statement, [First Solar's CEO said the IRA has](#) “entrusted [the clean energy industry] with the responsibility of enabling America’s clean energy future, and we must meet the moment.”
- In March 2023, [Invenergy announced a \\$600 million investment](#) to build one of the largest solar power manufacturing facilities in the U.S. in Pataskala, creating 850 good-paying jobs.

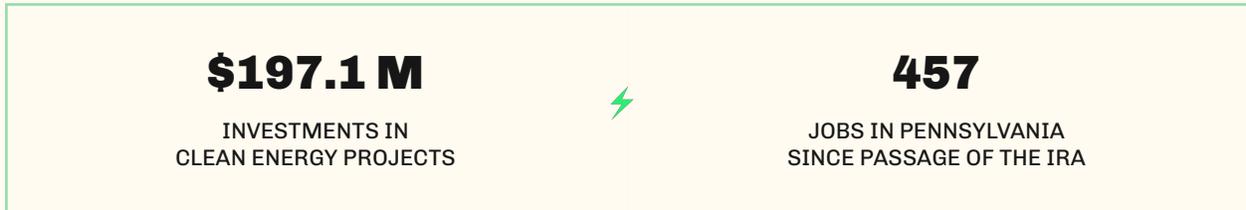


PENNSYLVANIA

Pennsylvania’s clean energy economy is bringing millions in new investment to the state. Clean energy investments have already spurred \$197.1 million in investment and helped create or move forward over 400 good-paying clean energy jobs in the state. A few highlights in Pennsylvania:

- Re:Build Manufacturing, which manufactures components for the [clean technology](#) and [EVs](#) industries, [announced a \\$81 million investment](#) in an advanced manufacturing park, creating 300 jobs at the new Westmoreland County regional headquarters.
- Pennsylvania companies are seeing increased demand for critical inputs in clean energy technologies. [Vitro Architectural Glass](#) announced a [\\$93.6 million investment](#) to expand its Cochranton facility following an agreement to supply glass to First Solar, adding 127 new jobs. First Solar expanded its U.S. manufacturing because of the IRA, calling the legislation an [“important step towards achieving self-sufficiency in solar technology.”](#)
- In April 2023, Prysmian announced a [\\$22.5 million investment](#) to expand transmission conductor technology manufacturing in Williamsport after signing a

supply agreement with Invenergy Transmission, who said the IRA provided a “[stable policy landscape](#)” for sustainable energy solutions.



SOUTH CAROLINA

South Carolina is helping lead the country’s clean energy boom, coming in third overall with 20 new projects announced in the state within the last year. Clean energy investments have already spurred \$11.17 billion in investment in South Carolina and helped create or move forward over 13,500 good-paying clean energy jobs in the state. A few highlights in South Carolina:

- South Carolina’s EV economy is booming. BMW announced a [\\$1 billion investment](#) in its Spartanburg campus to retool the factory for EV production and an additional [\\$700 million investment](#) to produce EV batteries at a new factory in Woodruff.
- In February 2023, Volvo announced it would add [1,300 jobs at its Ridgeville factory](#) to build its fully electric SUV.
- EV component companies are also creating thousands of jobs in South Carolina. ABB E-Mobility called the IRA a “[transformational investment](#)” in transportation electrification when announcing an expansion of its Columbia EV charger factory, creating 100 new jobs.
- Redwood Materials announced a [\\$3.5 billion investment](#) to build a battery materials campus in Ridgeville in December 2022, creating 1,500 new jobs. Redwood said the IRA enabled it to invest at home and set the stage for the U.S. to become a “[global leader](#)” in battery manufacturing.



TENNESSEE

Tennessee is fast becoming a manufacturing hub for battery inputs because of the IRA. Clean energy investments have already spurred \$5.76 billion in investment and helped create or move forward 4,130 good-paying clean energy jobs in the state. A few highlights in Tennessee:

- Following confirmation of the IRA's tax credits for domestic production, Piedmont Lithium announced plans to invest [\\$600 million in a new lithium hydroxide plant](#).
- LG Chem announced plans to build a battery factory in Clarksville, creating 850 jobs. LG said it invested \$3 billion in Tennessee [because of the IRA's tax credits](#).
- NOVONIX Anode Materials shared a new battery plant project expected to [cost upwards of \\$1 billion](#) and create 1,000 jobs, Daejin Advanced Materials announced a [\\$10.2 million investment](#) in a new EV battery plant in Cumberland City, and battery manufacturer Ultium Cells announced a [\\$275 million expansion](#) of its Spring Hill plant, creating 400 new jobs.



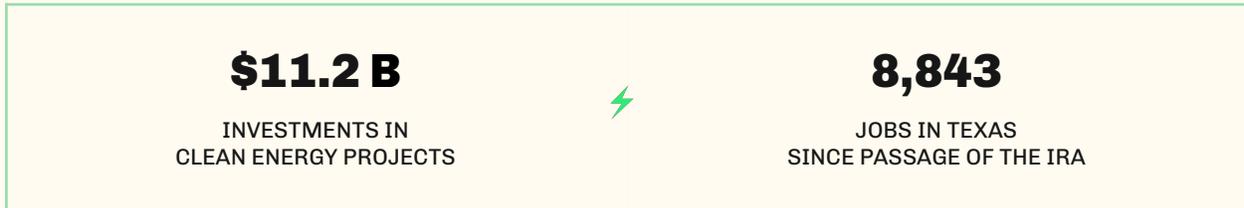
TEXAS

Texas is helping lead the country's clean energy boom, with 14 new projects announced in the state within the last year. Clean energy investments have already spurred \$11.2 billion in investment in Texas and created or moved forward over 8,800 good-paying clean energy jobs in the state. A few highlights in Texas:

- Texas has seen record investments in EVs. [SK Signet announced plans](#) for an EV fast charger manufacturing facility that will create 183 new jobs, and [Tesla plans to invest \\$770 million](#) toward expanding its Austin EV factory.
- Solar manufacturing is also booming in Texas. PV Hardware announced it would open a 6GW solar factory in Texas to meet the growing demand for [U.S.-manufactured solar panels](#) driven by the IRA. Additionally, OCI and Mission Solar announced a [\\$40 million investment](#) to expand domestic solar module production facilities, and SEG Solar announced a new residential solar project that will [bring 500 jobs to the](#)

state, with more on the way as the company uses savings from IRA tax credits to fund more manufacturing and support jobs.

- Texas also benefits from clean hydrogen tax credits, as Air Products and AES jointly announced a \$4 billion investment for the companies' first mega-scale green hydrogen production facility.



WEST VIRGINIA

West Virginia is becoming central to the “battery belt,” thanks to new investments over the past year. Clean energy investments have already spurred \$832 million in investment in the state and helped create or move forward nearly 4,800 good-paying clean energy jobs. A few highlights in West Virginia:

- Thanks to the IRA's clean energy tax credits, SPARKZ anticipates hiring as many as 3,000 workers to build batteries at its new West Virginia gigafactory. The company will partner with the United Mine Workers of America union to recruit and retrain miners to work in the facility.
- Form Energy and Our Next Energy also announced plans to build battery plants. Form Energy will invest \$760 million in a longer-lasting iron-air battery project, creating 750 new jobs. Our Next Energy will invest \$22 million in a utility-scale battery factory, employing 105.



WISCONSIN

Wisconsin's EV manufacturing industry is seeing a surge in investments. Clean energy investments have already spurred \$445 million in investment in the state and helped create or move forward 500 good-paying clean energy jobs. A few highlights in Wisconsin:

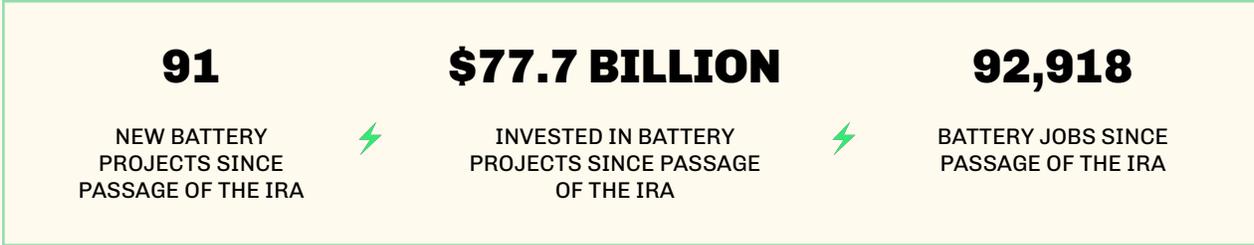
- ABB announced a [\\$100 million investment](#) to build electric drive units for EVs in New Berlin, creating 100 new jobs. In making the announcement, [the company cited](#) increased confidence in the U.S. market driven by the IRA. In May 2023, Ingeteam also announced it would add [100 new jobs](#) to its Milwaukee EV charger manufacturing facility.
- Wisconsin utilities are increasing their battery storage investments following the IRA. In September 2022, Alliant Energy shared plans to add utility-scale battery storage systems to its solar energy farms in Wood and Grant Counties. A spokesperson for [the company said](#) it accelerated plans for battery storage following the passage of the IRA.
- The federal government's "[focus on renewables](#)" drove Excellerate's decision to build a new electrical component manufacturing facility in Little Chute, according to the company's Executive VP. The facility will create 200 new jobs.



THE CLEAN ENERGY ECONOMIC BOOM BY SECTOR

BATTERIES

President Biden's Clean Energy Plan has sparked a battery boom across the country, with tax credits included in the landmark climate bill projected to cut the [total cost of U.S.-manufactured battery cells and packs by one-third](#). Since the passage of the IRA, companies have announced 91 new battery projects, totaling \$77.7 billion in investments and 92,918 new jobs. Fifteen states stand to benefit from new investments in battery projects, including [Kentucky](#), [Missouri](#), [Louisiana](#), and [New York](#).



SEMICONDUCTORS & OTHER CLEAN TECHNOLOGIES

Expanded IRA tax credits are driving investment in [advanced clean energy technologies](#) and the devices that will power our clean energy economy. Since the passage of the IRA, companies have announced 25 new advanced clean technology projects, totaling \$133.38 billion in investments and 18,588 new jobs.

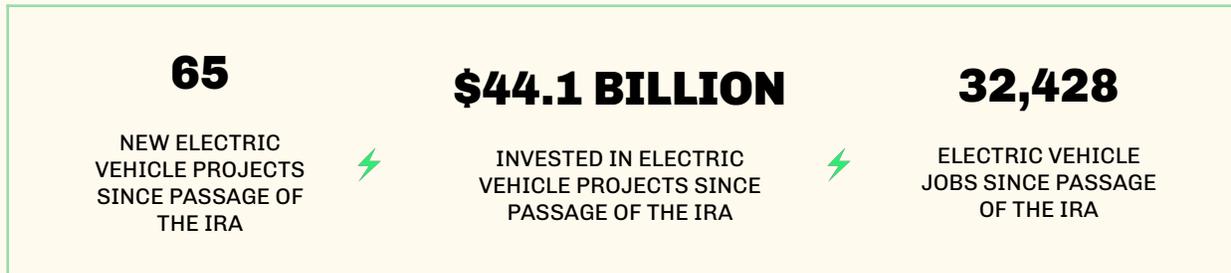
Eight of the new clean technology projects are in semiconductor manufacturing, which provides key inputs for EVs and renewable energy. Other included clean technology projects range from sustainable aviation fuel refining to manufacturing tools to bolster home energy efficiency. The IRA’s new tax credits for [advanced manufacturing](#) are bringing manufacturers of critical renewable energy components to the U.S. Sustainable aviation fuel production, for example, is set to [take off thanks to new tax credits](#) included in the IRA, and projects such as [Gevo’s \\$1 billion net-zero sustainable aviation fuel facility](#) near Lake Preston, South Dakota, stand to benefit.



ELECTRIC VEHICLES (EVs)

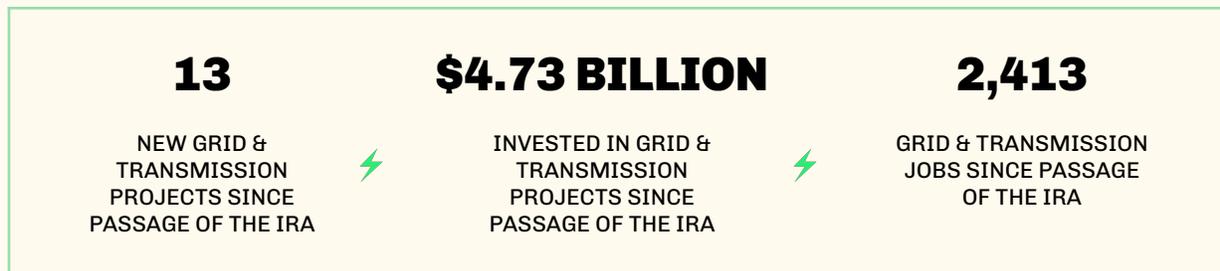
The U.S. auto industry is [booming](#) as companies continue to onshore production of EVs. In order to qualify for expanded tax credits under the IRA, auto companies are [accelerating investments in domestic EV manufacturing](#), announcing 65 new electric vehicle projects, totaling \$44.1 billion in investments and 32,428 new jobs, since the IRA’s passage. As

companies continue to announce new EV projects across the U.S. from [Alabama](#) to [Oklahoma](#), [prices continue to fall](#) — making U.S.-made EVs more affordable.



GRID & TRANSMISSION

Investments in critical electric transmission and grid improvements needed to accelerate the clean energy future are seeing continued growth. Since the passage of the IRA, companies announced 13 new grid and transmission projects, totaling \$4.73 billion in investments and 2,413 new jobs. Companies in [Alabama](#), [Indiana](#), and [Virginia](#) are expanding production of transformers and utility poles, while new transmission expansion projects are moving forward in [Rhode Island](#) and [Wyoming](#).



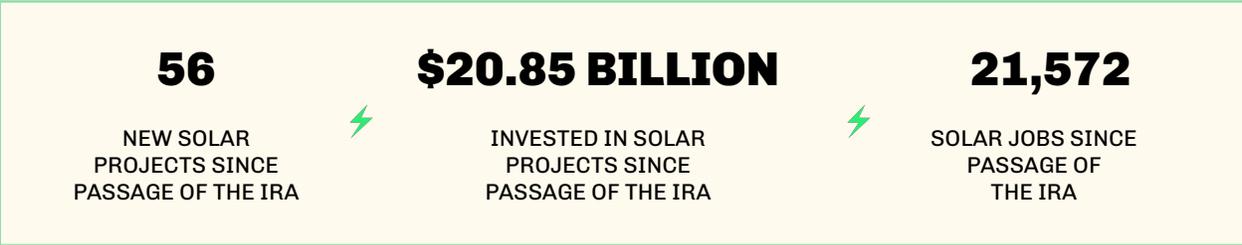
HYDROGEN

Companies are increasing their investments in clean hydrogen because of expanded tax credits included in the IRA. In the last year, companies announced 12 new hydrogen projects, totaling \$11.71 billion in investments and 7,140 new jobs. Companies are investing in clean hydrogen production in [New York](#) and [Texas](#), and expanding production of hydrogen electrolyzers in [Minnesota](#), [Connecticut](#), and [Massachusetts](#).



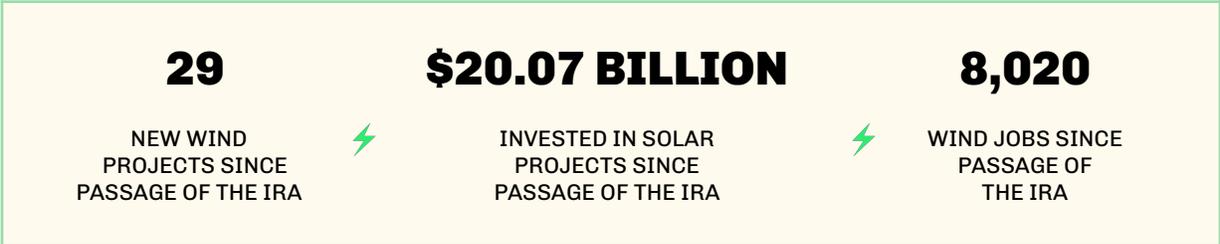
SOLAR

The investment outlook for large-scale solar generation projects and solar panel manufacturing is bright. Since the passage of the IRA, companies have announced 56 new solar projects, totaling \$20.85 billion in investments and 21,572 new jobs. New projects in states including [Florida](#), [Vermont](#), and [Mississippi](#) will benefit from expanded tax credits for solar energy generation, [saving customers money](#). Additionally, states such as [Alabama](#), [Illinois](#), and [Missouri](#) will benefit from new facilities that will manufacture solar components.



WIND

U.S. wind energy investments are speeding up. Since the passage of the IRA, companies have announced 29 new wind projects, totaling \$20.07 billion in investments and 8,020 new jobs. Wind manufacturing is growing across the nation, with new investments and expanded projects announced in [New Mexico](#), [Iowa](#), [Kansas](#), and [New Jersey](#).



THE CLEAN ENERGY ECONOMIC BOOM IN CONGRESSIONAL DISTRICTS

Rural communities, small towns, big cities, and every type of place in between are seeing the benefits of President Biden’s Clean Energy Plan. The majority of new clean energy projects, investments, and jobs announced in the last year are in districts currently represented by Republicans in the U.S. House of Representatives. Companies have announced a total of 151 projects in Republican-represented districts since the IRA passed, driving \$220 billion in investments and creating 95,866 jobs. 95 projects have been announced in Democrat-represented districts, driving \$38 billion in investments and creating 64,418 jobs.

CONGRESSIONAL DISTRICTS WITH THE HIGHEST NUMBER OF JOBS

BY THE NUMBERS				
RANK	CONGRESSIONAL DISTRICT	REPRESENTATIVE	PARTY	TOTAL JOBS
1	KS-3	REP. SHARICE DAVIDS	D	20,500
2	NV-2	REP. MARK AMODEI	R	10,450
3	NY-22	REP. BRANDON WILLIAMS	R	9,000
4	AZ-4	REP. GREG STANTON	D	6,400
5	GA-11	REP. BARRY LOUDERMILK	R	5,560
6	TX-22	REP. TROY NEHLS	R	4,600
7	GA-1	REP. EARL CARTER	R	4,322
8	MI-7	REP. ELISSA SLOTKIN	D	3,880
9	WV-2	REP. ALEXANDER MOONEY	R	3,790
10	IN-8	REP. LARRY BUCSHON	R	3,342
11	IN-5	REP. ANDY BIGGS	R	2,800
12	MI-5	REP. TIM WALBERG	R	2,600
13	SC-5	REP. RALPH NORMAN	R	2,505
14	CA-25	REP. RAUL RUIZ	D	2,500
15	SC-6	REP. JAMES CLYBURN	D	2,425
16	MI-2	REP. JOHN MOOLENAAR	R	2,350
17	MI-11	REP. HALEY STEVENS	D	2,227
18	OH-15	REP. MIKE CAREY	R	2,200
19	MI-6	REP. DEBBIE DINGELL	D	2,112
20	NY-20	REP. PAUL TONKO	D	2,070

CONGRESSIONAL DISTRICTS WITH THE LARGEST INVESTMENTS

BY THE NUMBERS				
RANK	CONGRESSIONAL DISTRICT	REPRESENTATIVE	PARTY	TOTAL INVESTMENT
1	NY-22	REP. BRANDON WILLIAMS	R	\$100,000,000,000
2	ID-2	REP. MICHAEL SIMPSON	R	\$15,000,000,000
3	UT-3	REP. JOHN CURTIS	R	\$11,000,000,000
4	NV-2	REP. MARK AMODEI	R	\$9,029,322,049
5	GA-11	REP. BARRY LOUDERMILK	R	\$7,476,000,000
6	TX-22	REP. TROY NEHLS	R	\$6,000,000,000
7	AZ-5	REP. ANDY BIGGS	R	\$5,600,000,000
8	NC-6	REP. KATHY MANNING	D	\$5,000,000,000
9	GA-1	REP. EARL CARTER	R	\$4,739,000,000
10	CA-42	REP. ROBERT GARCIA	D	\$4,700,000,000
11	IN-8	REP. LARRY BUCSHON	R	\$4,500,000,000
12	OH-15	REP. MIKE CAREY	R	\$4,400,000,000
13	TX-13	REP. RONNY JACKSON	R	\$4,090,000,000
14	KS-3	REP. SHARICE DAVIDS	D	\$4,000,000,000
15	CA-25	REP. RAUL RUIZ	D	\$4,000,000,000
16	NC-9	REP. RICHARD HUDSON	R	\$3,800,000,000
17	TN-7	REP. MARK GREEN	R	\$3,584,740,145
18	MI-5	REP. TIM WALBERG	R	\$3,520,000,000
19	SC-1	REP. NANCY MACE	R	\$3,500,000,000
20	WY-AL	REP. HARRIET HAGEMAN	R	\$3,000,000,000

APPENDIXES

DATA BY STATE: NEW CLEAN ENERGY INVESTMENTS ARE CREATING NEW JOBS ACROSS THE U.S.

BY THE NUMBERS			
STATE	PROJECTS	INVESTMENT	JOBS
ALABAMA	6	\$1,406,000,000	1,645
ARIZONA	13	\$8,310,000,000	12,720
CALIFORNIA	16	\$11,907,100,000	5,288
COLORADO	8	\$1,765,950,000	3,517
CONNECTICUT	1	\$25,100,000	45

FLORIDA	5	\$503,000,000	1,760
GEORGIA	22	\$18,825,000,000	16,678
IDAHO	1	\$15,000,000,000	2,000
ILLINOIS	4	\$949,000,000	545
INDIANA	6	\$5,336,000,000	3,617
IOWA	1	-	700
KANSAS	2	\$4,000,000,000	20,600
KENTUCKY	7	\$3,432,564,400	1,888
LOUISIANA	7	\$1,444,900,937	844
MAINE	1	\$6,000,000	200
MARYLAND	2	\$420,000,000	560
MASSACHUSETTS	4	\$290,000,000	320
MICHIGAN	24	\$21,031,070,000	15,856
MINNESOTA	2	\$720,000,000	914
MISSISSIPPI	2	\$365,000,000	600
MISSOURI	2	\$402,400,000	185
NEVADA	7	\$9,144,811,711	11,500
NEW JERSEY	2	\$1,070,000,000	200
NEW MEXICO	3	\$444,000,000	305
NEW YORK	12	\$101,572,000,000	13,555
NORTH CAROLINA	9	\$9,613,125,233	4,145
NORTH DAKOTA	2	\$871,872,271	150
OHIO	12	\$8,032,514,939	5,365
OKLAHOMA	3	\$2,450,000,000	3,515
OREGON	1	\$1,000,000,000	280
PENNSYLVANIA	3	\$197,100,000	457
RHODE ISLAND	2	\$729,000,000	1,850
SOUTH CAROLINA	20	\$11,170,400,000	13,543
SOUTH DAKOTA	2	\$1,000,000,000	1,280
TENNESSEE	13	\$5,759,900,849	4,130
TEXAS	14	\$11,203,700,000	8,843
UTAH	1	\$11,000,000,000	800
VERMONT	1	-	12
VIRGINIA	3	\$67,200,000	329
WASHINGTON	5	\$1,892,936,774	870
WEST VIRGINIA	5	\$832,000,000	4,795

WISCONSIN	7	\$445,000,000	500
WYOMING	1	\$3,000,000,000	1,000
STATE NOT SPECIFIED	7	\$950,000,000	2,700

TOTAL OF 170,606 JOBS

**DATA BY DISTRICT: NEW CLEAN ENERGY INVESTMENTS ARE
CREATING NEW JOBS IN REPUBLICAN-HELD DISTRICTS**

BY THE NUMBERS – GOP DISTRICTS				
DISTRICT	MEMBER	NUMBER OF PROJECTS	TOTAL INVESTMENT	TOTAL JOBS
AL-2	REP. BARRY MOORE	1	\$5,000,000	50
AL-3	REP. MIKE ROGERS	2	\$71,000,000	280
AL-4	REP. ROBERT ADERHOLT	1	\$1,000,000,000	715
AL-5	REP. DALE STRONG	1	\$125,000,000	200
AZ-5	REP. ANDY BIGGS	1	\$5,600,000,000	2,800
AZ-6	REP. JUAN CISCOMANI	2	-	245
AZ-9	REP. PAUL GOSAR	3	-	1,165
CA-3	REP. KEVIN KILEY	1	\$1,500,000,000	-
CA-13	REP. JOHN DUARTE	1	\$250,000,000	855
CA-48	REP. DARRELL ISSA	1	-	63
CO-3	REP. LAUREN BOEBERT	2	-	700
CO-5	REP. DOUG LAMBORN	2	\$1,280,000,000	750
FL-1	REP. MATT GAETZ	1	\$20,000,000	-
FL-2	REP. NEAL DUNN	2	52000000	550
GA-1	REP. EARL CARTER	4	\$4,739,000,000	4,322
GA-3	REP. A. FERGUSON	2	\$2,800,000,000	923
GA-6	REP. RICHARD MCCORMICK	1	\$19,000,000	200
GA-9	REP. ANDREW CLYDE	1	-	400
GA-10	REP. MIKE COLLINS	2	\$72,000,000	160
GA-11	REP. BARRY LOUDERMILK	3	\$7,476,000,000	5,560
GA-12	REP. RICK ALLEN	5	\$930,000,000	1,976
GA-14	REP. MARJORIE TAYLOR GREENE	1	\$171,000,000	510
ID-2	REP. MICHAEL SIMPSON	1	\$15,000,000,000	2,000
IL-12	REP. MICHAEL BOST	1	\$54,000,000	60
IL-15	REP. MARY MILLER	1	\$360,000,000	-

IN-4	REP. JIM BAIRD	1	\$115,000,000	200
IN-5	REP. VICTORIA SPARTZ	3	\$721,000,000	75
IN-8	REP. LARRY BUCSHON	2	\$4,500,000,000	3,342
IA-1	REP. MARIANNETTE MILLER-MEEKS	1	-	700
KS-1	REP. TRACEY MANN	1	-	100
KY-1	REP. JAMES COMER	4	\$1,569,564,400	1,103
KY-2	REP. BRETT GUTHRIE	2	\$1,710,000,000	618
KY-6	REP. ANDY BARR	1	\$153,000,000	167
LA-4	REP. MIKE JOHNSON	1	\$28,500,000	153
LA-5	REP. JULIA LETLOW	2	\$519,816,850	220
LA-6	REP. GARRET GRAVES	1	\$480,000,000	220
MI-2	REP. JOHN MOOLENAAR	1	\$2,400,000,000	2,350
MI-5	REP. TIM WALBERG	2	\$3,520,000,000	2,600
MI-9	REP. LISA MCCLAIN	1	\$426,000,000	920
MI-10	REP. JOHN JAMES	1	\$96,170,000	155
MN-6	REP. TOM EMMER	1	\$575,000,000	914
MS-4	REP. MIKE EZELL	1	\$115,000,000	300
MO-7	REP. ERIC BURLISON	1	\$2,400,000	35
NV-2	REP. MARK AMODEI	5	\$9,029,322,049	10,450
NJ-2	REP. JEFFERSON VAN DREW	1	-	200
NJ-4	REP. CHRISTOPHER SMITH	1	\$1,070,000,000	-
NY-19	REP. MARCUS MOLINARO	1	\$68,000,000	500
NY-21	REP. ELISE STEFANIK	1	\$500,000,000	90
NY-22	REP. BRANDON WILLIAMS	1	\$100,000,000,000	9,000
NY-23	REP. NICHOLAS LANGWORTHY	1	\$75,000,000	250
NC-9	REP. RICHARD HUDSON	1	\$3,800,000,000	350
NC-10	REP. PATRICK MCHENRY	2	\$375,525,233	230
ND-AL	REP. KELLY ARMSTRONG	2	\$871,872,271	150
OH-2	REP. BRAD WENSTRUP	2	\$270,000,000	120
OH-4	REP. JIM JORDAN	1	\$700,000,000	300
OH-12	REP. TROY BALDERSON	2	\$782,514,939	1,150
OH-14	REP. DAVID JOYCE	1	\$170,000,000	-
OH-15	REP. MIKE CAREY	1	\$4,400,000,000	2,200
OK-2	REP. JOSH BRECHEEN	2	\$2,450,000,000	1,515
OK-5	REP. STEPHANIE BICE	1	-	2,000
PA-9	REP. DANIEL MEUSER	1	\$22,500,000	27

PA-16	REP. MIKE KELLY	1	\$93,600,000	130
SC-1	REP. NANCY MACE	1	\$3,500,000,000	1,500
SC-2	REP. JOE WILSON	5	\$509,000,000	1,071
SC-3	REP. JEFF DUNCAN	3	\$270,500,000	572
SC-4	REP. WILLIAM TIMMONS	2	\$1,700,000,000	300
SC-5	REP. RALPH NORMAN	3	\$1,808,900,000	2,505
SC7	REP. RUSSELL FRY	1	\$810,000,000	1,170
SD-AL	REP. DUSTY JOHNSON	2	1000000000	1,280
TN-2	REP. TIM BURCHETT	1	\$6,600,000	90
TN-3	REP. CHARLES FLEISCHMANN	2	\$1,627,260,704	1,120
TN-5	REP. ANDREW OGLES	2	\$275,000,000	650
TN-6	REP. JOHN ROSE	1	-	-
TN-7	REP. MARK GREEN	4	\$3,584,740,145	1801
TN-8	REP. DAVID KUSTOFF	2	\$259,500,000	340
TX-4	REP. PAT FALLON	1	-	200
TX-5	REP. LANCE GOODEN	1	\$250,000,000	1,500
TX-8	REP. MORGAN LUTTRELL	1	-	500
TX-13	REP. RONNY JACKSON	2	\$4,090,000,000	1,490
TX-22	REP. TROY NEHLS	1	6,000,000,000	4,600
TX-26	REP. MICHAEL BURGESS	1	-	100
UT-3	REP. JOHN CURTIS	1	\$11,000,000,000	800
VA-5	REP. BOB GOOD	2	\$67,200,000	314
WA-4	REP. DAN NEWHOUSE	3	\$722,936,774	800
WV-1	REP. CAROL MILLER	2	\$22,000,000	1,005
WV-2	REP. ALEXANDER MOONEY	3	\$810,000,000	3,790
WI-1	REP. BRYAN STEIL	2	-	-
WI-3	REP. DERRICK VAN ORDEN	1	\$345,000,000	-
WI-5	REP. SCOTT FITZGERALD	1	\$100,000,000	100
WI-6	REP. GLENN GROTHMAN	1	-	100
WI-8	REP. MIKE GALLAGHER	1	-	200
WY-AL	REP. HARRIET HAGEMAN	1	\$3,000,000,000	1,000
TOTALS	92 DISTRICTS	152 PROJECTS	\$224,892,423,365 IN INVESTMENT	96,216 JOBS

**DATA BY DISTRICT: NEW CLEAN ENERGY INVESTMENTS ARE
CREATING NEW JOBS IN DEMOCRATIC-HELD DISTRICTS**

BY THE NUMBERS – DEM DISTRICTS				
DISTRICT	MEMBER	NUMBER OF PROJECTS	TOTAL INVESTMENT	TOTAL JOBS
AL-7	REP. TERRI SEWELL	1	\$205,000,000	400
AZ-3	REP. RUBEN GALLEG0	1	\$60,000,000	600
AZ-4	REP. GREG STANTON	1	\$1,250,000,000	6,400
AZ-7	REP. RAÚL GRIJALVA	4	\$1,400,000,000	1,510
CA-2	REP. JARED HUFFMAN	2	\$331,500,000	-
CA-6	REP. AMI BERA	1	-	-
CA-8	REP. JOHN GARAMENDI	1	-	800
CA-12	REP. BARBARA LEE	1	-	150
CA-14	REP. ERIC SWALWELL	1	\$700,000,000	800
CA-19	REP. JIMMY PANETTA	3	\$425,600,000	-
CA-25	REP. RAUL RUIZ	2	\$4,000,000,000	2,500
CA-42	REP. ROBERT GARCIA	1	\$4,700,000,000	-
CO-2	REP. JOE NEGUSE	1	\$5,950,000	35
CO-8	REP. YADIRA CARAVEO	2	\$440,000,000	1,232
CT-3	REP. ROSA DELAURO	1	\$25,100,000	45
FL-9	REP. DARREN SOTO	1	\$431,000,000	1,200
GA-2	REP. SANFORD BISHOP	1	\$800,000,000	400
GA-4	REP. HENRY JOHNSON	1	\$118,000,000	1,000
IL-8	REP. RAJA KRISHNAMOORTH1	1	-	50
IL-13	REP. NIKKI BUDZINSKI	1	\$535,000,000	435
KS-3	REP. SHARICE DAVIDS	1	\$4,000,000,000	20,500
LA-2	REP. TROY CARTER	3	\$416,584,087	251
ME-6	REP. JARED GOLDEN	1	\$6,000,000	200
MD-6	REP. DAVID TRONE	2	\$420,000,000	560
MA-2	REP. JAMES MCGOVERN	1	-	-
MA-3	REP. LORI TRAHAN	1	\$90,000,000	70
MA-4	REP. JAKE AUCHINCLOSS	1	\$200,000,000	250
MA-5	REP. KATHERINE CLARK	1	-	-
MI-6	REP. DEBBIE DINGELL	2	\$1,647,000,000	2,112

MI-7	REP. ELISSA SLOTKIN	2	\$2,616,000,000	3,880
MI-8	REP. DANIEL KILDEE	4	\$572,500,000	987
MI-11	REP. HALEY STEVENS	6	\$353,400,000	2,227
MI-13	REP. SHRI THANEDAR	1	-	100
MN-5	REP. ILHAN OMAR	1	-	-
MS-2	REP. BENNIE THOMPSON	1	\$250,000,000	300
MO-1	REP. CORI BUSH	1	\$400,000,000	150
NV-4	REP. STEVEN HORSFORD	2	\$115,489,662	1,050
NM-1	REP. MELANIE STANSBURY	1	\$40,000,000	55
NM-2	REP. GABE VASQUEZ	1	\$60,000,000	250
NY-14	REP. ALEXANDRIA OCASIO-CORTEZ	1	\$215,000,000	-
NY-20	REP. PAUL TONKO	3	\$50,000,000	2,070
NY-25	REP. JOSEPH MORELLE	3	\$253,000,000	1,345
NY-26	REP. BRIAN HIGGINS	1	\$411,000,000	300
NC-4	REP. VALERIE FOUSHEE	1	\$41,000,000	600
NC-6	REP. KATHY MANNING	1	\$5,000,000,000	1,800
NC-12	REP. ALMA ADAMS	3	\$172,600,000	675
OH-9	REP. MARCY KAPTUR	4	\$1,710,000,000	1,550
OH-11	REP. SHONTEL BROWN	1	-	45
OR-1	REP. SUZANNE BONAMICI	1	\$1,000,000,000	280
PA-12	REP. SUMMER LEE	1	\$81,000,000	300
RI-1	N/A	1	\$200,000,000	1,850
SC-6	REP. JAMES CLYBURN	4	\$572,000,000	2,425
TN-9	REP. STEVE COHEN	1	\$6,800,000	129
TX-28	REP. HENRY CUELLAR	1	\$40,000,000	170
TX-32	REP. COLIN ALLRED	1	\$15,000,000	183
TX-35	REP. GREG CASAR	1	\$775,700,000	-
VT-AL	REP. BECCA BALINT	1	-	12
VA-3	REP. BOBBY SCOTT	1	-	15
WA-1	REP. SUZAN DELBENE	1	\$1,000,000,000	-
WA-7	REP. PRAMILA JAYAPAL	1	\$170,000,000	70
WI-4	REP. GWEN MOORE	1	-	100
TOTALS	61 DISTRICTS	95 PROJECTS	\$38,327,223,749 IN INVESTMENT	64,418 JOBS

METHODOLOGY

This report analyzes public announcements from the private sector since the passage of the Inflation Reduction Act (IRA) to demonstrate the breadth and scale of the clean energy economic boom happening all across the country. It tracks public announcements from the private sector between August 16, 2022 and July 25, 2023.