

2017 Update



Illinois Clean Energy Supply Chain:

Good for Manufacturing Jobs, Good for Economic Growth
and Good for Our Environment



ENVIRONMENTAL LAW & POLICY CENTER



Illinois' Clean Energy Supply Chain

Report Findings At-A-Glance:

The Environmental Law & Policy Center identified more than **450** companies in Illinois that are engaged in the clean energy industry supply chain at **523** unique locations:



290+ Illinois companies are engaged in the solar energy industry supply chain



200+ Illinois companies are engaged in the wind energy industry supply chain



130+ Illinois companies are engaged in the geothermal energy industry supply chain



75+ Illinois companies are engaged in the energy storage industry supply chain

Illinois' clean energy businesses play a wide range of roles in the supply chain including:



110+ Manufacturers that build or assemble clean energy equipment or key components for solar energy, wind power, geothermal energy and/or energy storage.



125+ Developers/Designers that initiate, design or coordinate clean energy projects, including architectural and engineering design and technical consultants.



180+ Contractors/Installers that install, maintain or repair clean energy equipment and physical systems.



130+ Professional Services/Other that provide essential professional services to support clean energy deployment, including finance, legal, insurance, tax, communications and marketing; also includes alternative retail electric suppliers.

Smart policies, technological innovations and declining costs have accelerated Illinois' robust clean energy economy. To ensure continued growth in the clean energy sector, Illinois should:

1. **Successfully implement the updated Renewable Portfolio Standard to promote new in-state wind and solar energy development.**
2. **Modernize Illinois' electricity distribution grid, including new ways to better recognize the multiple values of clean distributed energy resources.**
3. **Promote new technologies, such as energy storage, to increase the usefulness of clean energy as an economically- and environmentally-viable resource.**

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Illinois Solar Energy Association

Geothermal Alliance of Illinois

Solar Energy Industries Association

Illinois' Clean Energy Economy

Smart energy policies and economic development are making Illinois a regional leader and business hub in the growing clean energy economy. This report highlights the breadth and depth of more than 450 local companies that are accelerating solar energy, wind power and geothermal energy, as well as energy storage.

Illinois' clean energy economy isn't limited to any single company type or geographic region. With companies located in almost all state legislative districts, this growing industry is advancing state-wide job growth and reducing carbon pollution. Clean energy companies and their employees work in rural communities, suburban areas and urban centers, boosting Illinois' economy and improving our environmental quality and public health.

This report defines the clean energy supply chain as the manufacturers, developers/designers, contractors/installers and professional and other service providers that employ more than 10,000 Illinois workers.

- **Manufacturers:** Build or assemble clean energy equipment or key components for solar, wind, geothermal energy and/or energy storage.
- **Developers/Designers:** Initiate, design or coordinate clean energy projects, including architectural and engineering design and technical consultants.
- **Contractors/Installers:** Install, maintain or repair clean energy equipment and physical systems.
- **Professional Services/Other:** Provide essential professional services to support clean energy deployment, including finance, legal, insurance, tax, communications and marketing; also includes alternative retail electric suppliers.

Illinois has 4,026 megawatts of installed wind capacity as of June 2017. Illinois ranks second among Midwest wind-rich states and sixth in the nation. Illinois is now primed to become a national leader in solar energy generation as well. Following the new Future Energy Jobs Act passed in December 2016, Illinois' 74 megawatts of installed solar energy generation capacity is projected to grow over the next 12 years to 3,000 megawatts by 2030. Geothermal energy is also on the rise, accounting for over 10 percent of

the HVAC market in central Illinois. Illinois has more than 17 grid-connected energy storage projects with total capacity of more than 100 megawatts.

Illinois' clean energy boom is driven by smart policies and technology advances. Declining costs have aided the growth of the clean energy industry in Illinois, but sustained policy action will help achieve the full economic and environmental benefits of renewable energy growth and development.



Recommendations & Next Steps

Strong targeted policy actions will help advance Illinois' clean energy future leadership. The following policy recommendations are a strategic approach for Illinois to promote installation and deployment of cleaner, forward-looking technologies and advance regulatory standards and market drivers that accelerate renewable energy that is accessible to all.

Maximize the benefits of Illinois' revitalized Renewable Portfolio Standard.

The Renewable Portfolio Standard (RPS) is important because it drives clean energy development in Illinois. The Illinois Power Agency is developing plans and programs that are vital to achieving the full potential of the updated RPS. To effectively implement the RPS, Illinois policymakers should:

- Prioritize building new wind power and solar energy projects by developing a long-term plan that directs funding to long-term new build contracts, not short-term Renewable Energy Credit purchases from existing projects.
- Encourage and enable community-driven solar energy projects in addition to large commercial solar projects by adopting program standards that set a minimum threshold for residential and small customer participation on either a project or program-wide basis.
- Adopt standardized community solar tariffs that maximize the value of community solar energy by including transmission services in the bill credits for project subscribers.
- Ensure balanced wind power and solar energy development across the state by adopting program standards that take account of differing costs, labor and other geographic factors.
- Eliminate speculative bidding in wind power and solar energy procurements by adopting contract provisions and bidding requirements that will ensure that bids result in real project development.
- Protect the Renewable Energy Resources Fund from legislative sweeps to ensure clean energy access and equity among lower-income residents through Illinois Solar For All.
- Meet and, hopefully, exceed the statutory two percent (60 megawatt) RPS targets for Brownfields to Solar Brightfields projects.

Modernize the distribution grid and improve distributed generation valuation policies.

Developing a modernized, flexible and dynamic grid is important because it can integrate much higher penetration levels of clean distributed energy resources and emerging technologies. Illinois must update the way it plans for and compensates clean distributed energy resources. To achieve these improvements, Illinois policymakers should:

- Require utilities to conduct distribution system capacity and need assessments and cost-benefit analyses to identify and implement cost-effective clean distributed energy resources and other non-wires alternatives.
- Develop better compensation structures for grid-connected clean distributed energy resources that value location-specific services and benefits if the state transitions away from traditional net energy metering policies and practices.

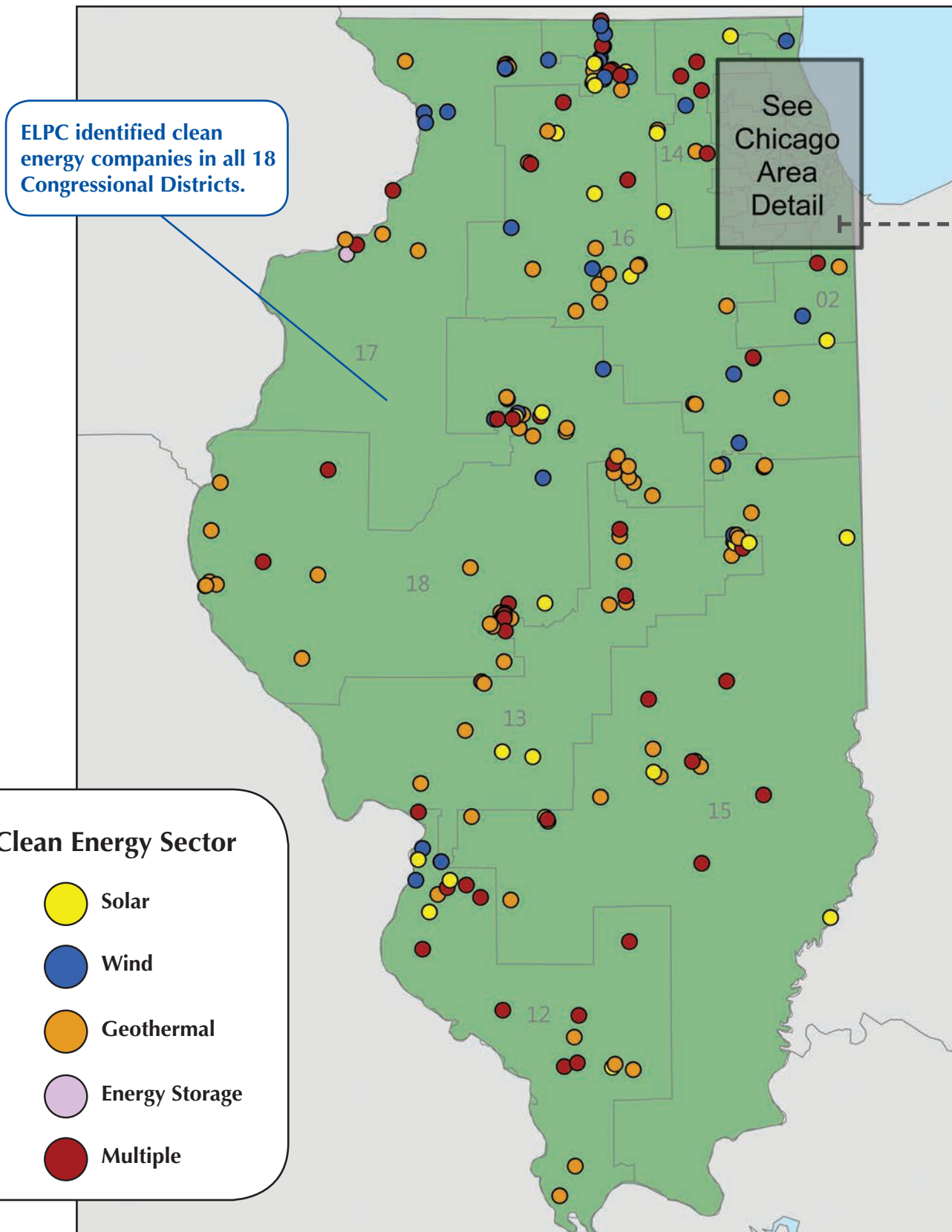
Promote energy storage.

Advances in batteries and other advanced energy storage, combined with rapid cost reduction, can accelerate cost-effective energy storage in order to bridge gaps between clean energy supply and demand. This is important because it increases the usefulness of clean energy resources. Illinois policy makers should:

- Initiate a statewide study to assess and quantify the benefits and costs of energy storage.
- Ensure that interconnection standards for clean distributed energy resources consider and accommodate the unique operating attributes and benefits of energy storage.
- Establish incentives, market learning targets and/or procurement standards to accelerate energy storage deployment.
- Implement clean distributed energy resources incentives to promote solar energy and storage together to enable higher penetration of solar energy and reduction of peak demand.

Illinois Clean Energy Companies

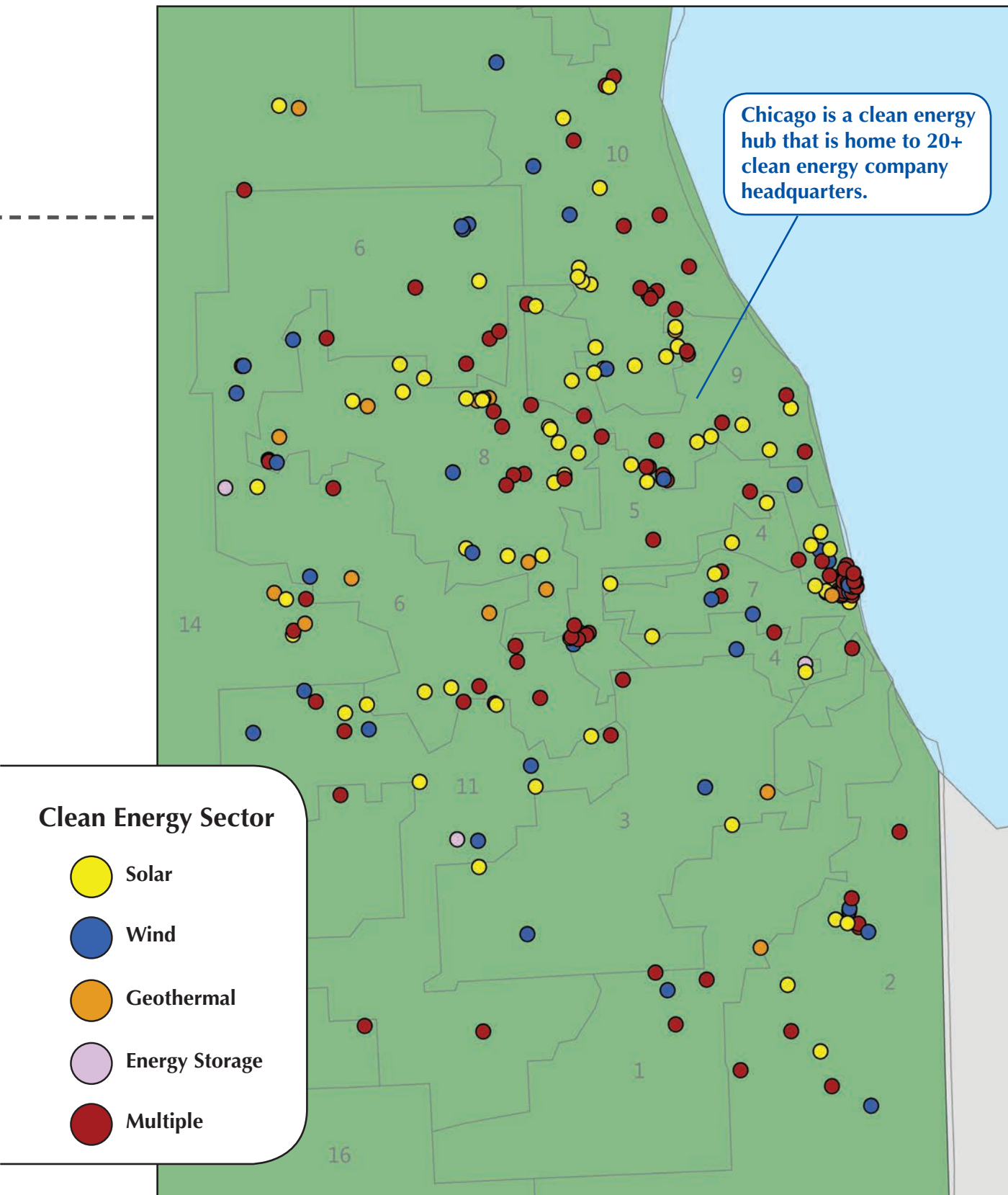
(U.S. Congressional Districts)



Full list of companies starts on page 21.

Chicago Area Clean Energy Companies

(U.S. Congressional Districts)



Full list of companies starts on page 21.






Illinois Clean Energy Companies

(State House of Representatives Districts)

ELPC identified clean energy companies in 105 out of 118 Illinois House of Representatives Districts.

See Chicago Area Detail

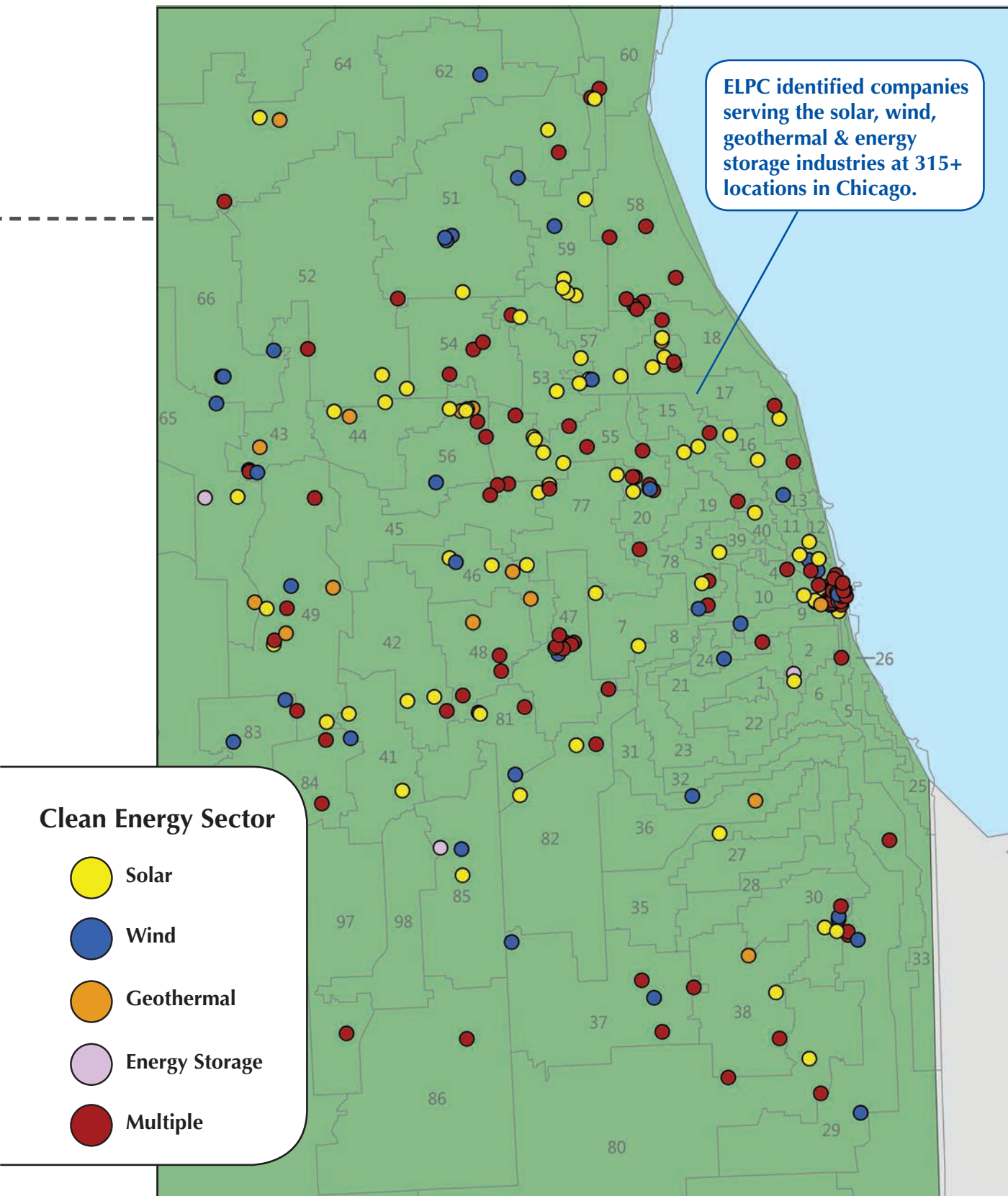
Clean Energy Sector

-  Solar
-  Wind
-  Geothermal
-  Energy Storage
-  Multiple

Full list of companies starts on page 21.

Chicago Area Clean Energy Companies

(State House of Representatives Districts)



Full list of companies starts on page 21.

Clean Energy Policy Landscape

Strong supportive federal and state policies are vital to encouraging investment in the wind, solar, geothermal and energy storage industries, thereby creating jobs, economic growth and environmental benefits. Illinois is now positioned as a clean energy leader.

Illinois' Renewable Energy History

In 2007, Illinois enacted the Illinois Power Agency Act which set a 25 percent Renewable Portfolio Standard (RPS) goal by 2025. This law led to substantial wind power growth from 2007-2012, with more than 3,400 megawatts of wind capacity installed during that period. However, subsequent legislation and changing market forces diminished the effectiveness of the state's RPS. The Environmental Law & Policy Center and other clean energy partners developed an updated clean energy standard to stabilize funding and reinvigorate renewable energy development in Illinois.

2016 Renewable Portfolio Standard Update

Illinois passed Senate Bill 2814, the Future Energy Jobs Act (FEJA) which modernizes the RPS by ensuring long-term, reliable funding and policy support for new renewable energy development. The updated RPS creates a secure, stable budget of \$200+ million per year for purchasing Renewable Energy Credits (RECs) on behalf of Illinois utilities. RECs provide a production subsidy to electricity generated from renewable energy sources. The updated RPS also establishes new programs for community solar, low-income solar, brownfield solar and distributed generation to accelerate solar market development accessible to all Illinois residents.

Illinois' Updated Renewable Portfolio Standard: 25 percent by 2025 (With Explicit Requirements for 1,350 MW of New Wind & 3,000 MW of New Solar Energy Generation)

The Illinois RPS maintains the existing 25 percent by 2025 renewable energy targets and a 2 percent cost cap on rates. The statute adds provisions to ensure RECs are supplied by newly-constructed wind and solar projects, that will spur about 1,350 megawatts of new wind and 3,000 megawatts of new solar energy generation by 2030.

Targets for New Clean Energy Generation Under the Updated RPS (Cumulative)			
Target Year	Wind Energy	Solar Energy	Household Energy Use Equivalents
2020	650 MW	1,500 MW	400,000+ homes
2025	1,000 MW	2,250 MW	615,000+ homes
2030	1,350 MW	3,000 MW	825,000+ homes

Jumpstarting the Illinois Solar Market

The new RPS contains new build requirements for:

- (1) Smaller distributed generation solar projects sized below 2 megawatts: at least 50 percent of RECs must come from these projects.
- (2) Large utility-scale solar projects sized at or above 2 megawatts: 40 percent of RECs must come from these projects.
- (3) Development of community solar projects: at least 25 percent of RECs must come from these projects.
- (4) Development of brownfields into solar brightfields projects: 2 percent of RECs must come from these projects.
- (5) There is now funding for the Illinois Solar For All program which will increase equity and access to solar development throughout the state.

(1) Distributed Generation: Distributed generation projects include rooftop solar installations and other projects that directly power homes, farms or small businesses. A minimum of 50 percent of new solar RECs must come from this program, and there are separate carve-outs for small-scale (10 kilowatts or less), large-scale (more than 10 kilowatts) and community solar projects.

(2) Utility-Scale Solar Projects: 40 percent of new solar RECs must come from projects larger than 2 megawatts. This carve-out should stimulate the mid- and large-scale solar development market in Illinois.

(3) Community Solar: The law establishes the state's first community solar program which enables all customers, including those not able to build solar on their own roofs, to subscribe to a shared project. Subscribers will receive a credit on their electricity bill in proportion to the size of their subscription. At least 25 percent of the RECs procured must come from community solar projects.

(4) Brownfields to Brightfields: The solar standard also has a 2 percent carve-out for solar development projects on brownfields. This carve-out will help bring hundreds of acres of contaminated land back to productive use, benefitting communities throughout the state.

(5) Illinois Solar For All: The law directs the IPA to create the Illinois Solar For All program providing solar deployment and job training opportunities for low-income communities including:

- (1) Distributed generation for low-income customers;
- (2) Community solar for low-income subscribers; and
- (3) Distributed generation for non-profits and facilities serving low-income communities.

Beyond the Renewable Portfolio Standard

In addition to the RPS, Illinois has other policies in place to support growth in the renewable energy sector. These include:

Property Assessed Clean Energy. Property Assessed Clean Energy financing allows local governments to establish programs that provide financing for the upfront costs of energy efficiency and renewable energy projects. The costs are then repaid through an assessment on the property tax bill for the property where the improvement has been made.

Net Metering Standard. Illinois' net metering standard requires full retail credit for any energy sent back to the grid from residential and small commercial customers that install on-site systems up to 2 megawatts. Large commercial and industrial customers receive a credit for the avoided cost of power supply. Full retail net

metering will remain in place until distributed generation penetration hits 5 percent of utility peak load, at which point it will transition to a new system of compensation based on solar energy's value to the grid.

Connecting Renewables to the Grid. Illinois recently updated its interconnection standards to ensure a more predictable, affordable and faster interconnection process for distributed generation customers.

Sales Tax Incentive. A business establishing a new wind power project in Illinois may be eligible for designation as a "High Impact Business," which exempts the wind equipment owner from paying state and local sales taxes for building materials.

State Bond Program. The Illinois Finance Authority can issue tax-exempt bonds and credit enhancements for renewable energy projects that meet eligibility criteria and provide significant benefits for the Illinois public.

Property Tax Consistency. The Illinois property tax code provides enhanced tax certainty for wind power projects by keeping the property tax assessment of wind energy devices uniform in counties across the state. Previously, property tax assessments for wind farms varied widely across the state.

Federal Tax Credits

In December 2016, Congress passed multi-year extensions of three renewable energy tax credits that provide predictability for developers and are important to progress in Illinois:

Production Tax Credit (PTC). Prior to 2017, the PTC provided a credit of 2.3 cents per kilowatt-hour for wind power projects. In 2017, it ramped down by 20%. In 2018, it will ramp down by 40%. In 2019, it will ramp down by 60%.

Investment Tax Credit (ITC). In lieu of the PTC, the ITC offers an immediate tax credit equal to 30 percent of the expenditures for solar energy and small wind energy projects with no maximum credit for the years 2017 through 2019. The credit ramps down to 26 percent in 2020 and 22 percent in 2021. Thereafter, the credit will decrease to 10 percent and become permanent.

Residential Renewable Energy Tax Credit. Homeowners can receive a personal income tax credit for up to 30 percent of the cost of a solar thermal or photovoltaic system (100 kilowatts or less) installed on their residence. This credit decreases to 26 percent in 2020, 22 percent in 2021 and then expires.



Clean Energy Sector Spotlights: Solar Energy

The Environmental Law & Policy Center identified more than **290** businesses that participate in Illinois' solar energy supply chain. These companies are engaged in projects of every size, from residential and commercial rooftops, to community solar installations, to utility-scale photovoltaic arrays. Through the Illinois Solar For All program, local government efforts to streamline solar permitting and approvals and new procurement and financing options, more Illinois residents have opportunities to own and use clean solar power than ever before. Illinois is also home to large-scale solar generation, including Invenergy's 20-megawatt Grand Ridge Solar Farm in LaSalle County.

Solar installations create local jobs and present opportunities to put underutilized spaces to productive use. Training programs like the IBEW-NECA Technical Institute in Alsip offer state-of-the-art education for

renewable energy installation and operations, including apprenticeship and journeyman programs to equip workers for 21st century jobs. In addition to assembling field-ready solar panels, Illinois manufacturers also produce the advanced metals, inverters and other electrical components that enable solar power, as well as ground and rooftop mounting equipment. Solar project developers select economically-viable sites and technologies, secure project permitting, arrange project financing and identify solar power markets and customers. Contractors install and maintain solar panel arrays, with support from architects, engineers, design consultants and other service providers. The Chicago-based Clean Energy Trust identified approximately 4,800 solar energy related jobs in Illinois to date, but that number will significantly grow as solar power demand and production rise to meet Illinois' new Renewable Portfolio Standard.



SOLAR ENERGY COMPANY PROFILES

StraightUp Solar, Bloomington (Founded 2006)



“The Future Energy Jobs Act provides the long-term certainty that our company relies on to grow in a strategic and deliberate manner.” – *Shannon Fulton, Director of Business Development*

In 2006, Dane Glueck founded StraightUp Solar to combat climate change and help secure domestic energy independence and energy security. The company has since designed and installed more than 800 projects in Illinois and throughout the Midwest, approaching 9 megawatts of total installed capacity.

StraightUp Solar provides installation services for commercial and residential clients in urban and rural areas. In December 2016, StraightUp Solar’s 556-kilowatt array at the Home Nursery and Distribution Center in Albers, Illinois was completed. It is estimated to save the company approximately \$57,000 in energy costs each year. StraightUp Solar has also completed four major solar projects in Champaign-Urbana, McLean County, Madison County and the City of Godfrey.

To achieve its goal, StraightUp Solar forges partnerships with lenders and utilizes policy-based financial incentives such as the Illinois’ Solar Renewable Energy Credit Program to help residents and businesses afford onsite solar power. Additional services include array inspection and maintenance, battery storage and electric vehicle charger integration and solar array removal and replacement.

Advanced Energy Solutions Group, Carterville (Founded 1999)



“I enjoy working in solar and helping people increase their energy independence and realize peace of mind that they’ll have a reliable, affordable power supply.” – *Seth Rose, Lead Installer*

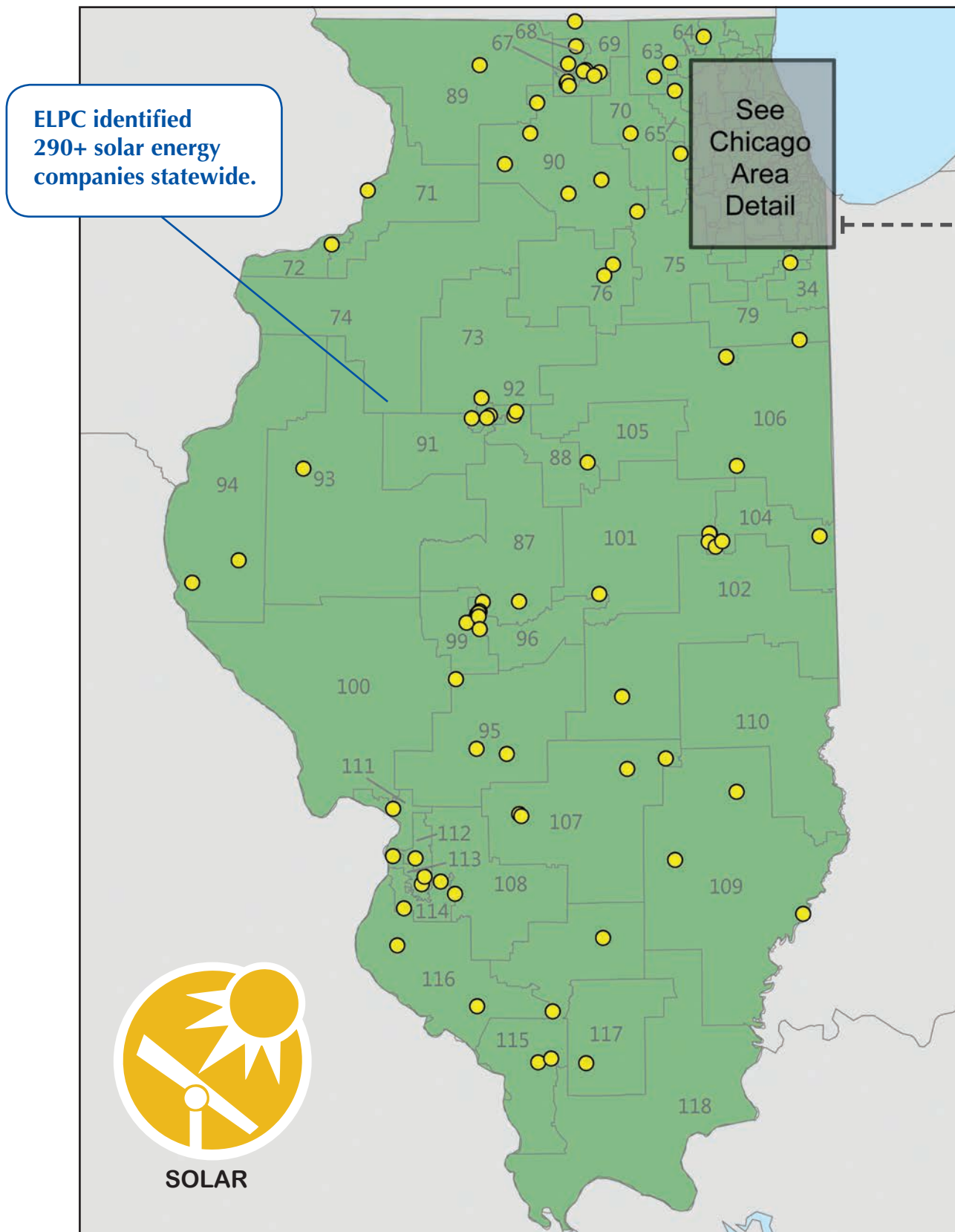
Over the past two decades, Advanced Energy Solutions Group (AES Solar) has completed solar installations

in eight states across the Midwest. The company has experienced rapid growth over the past year, opening a new Carterville location near Southern Illinois’ busy Highway 13. Now, the company is focusing on local business opportunities through the community solar component of the Future Energy Jobs Act.

AES Solar has also been helping train local workers on solar energy installations for the past year through 1-kilowatt demonstration systems on several Southern Illinois schools. Workforce training will continue in the new Carterville headquarters where AES Solar has a product showroom that displays several lines of modules, racking systems, inverters and other solar energy system components.

Illinois Solar Energy Companies

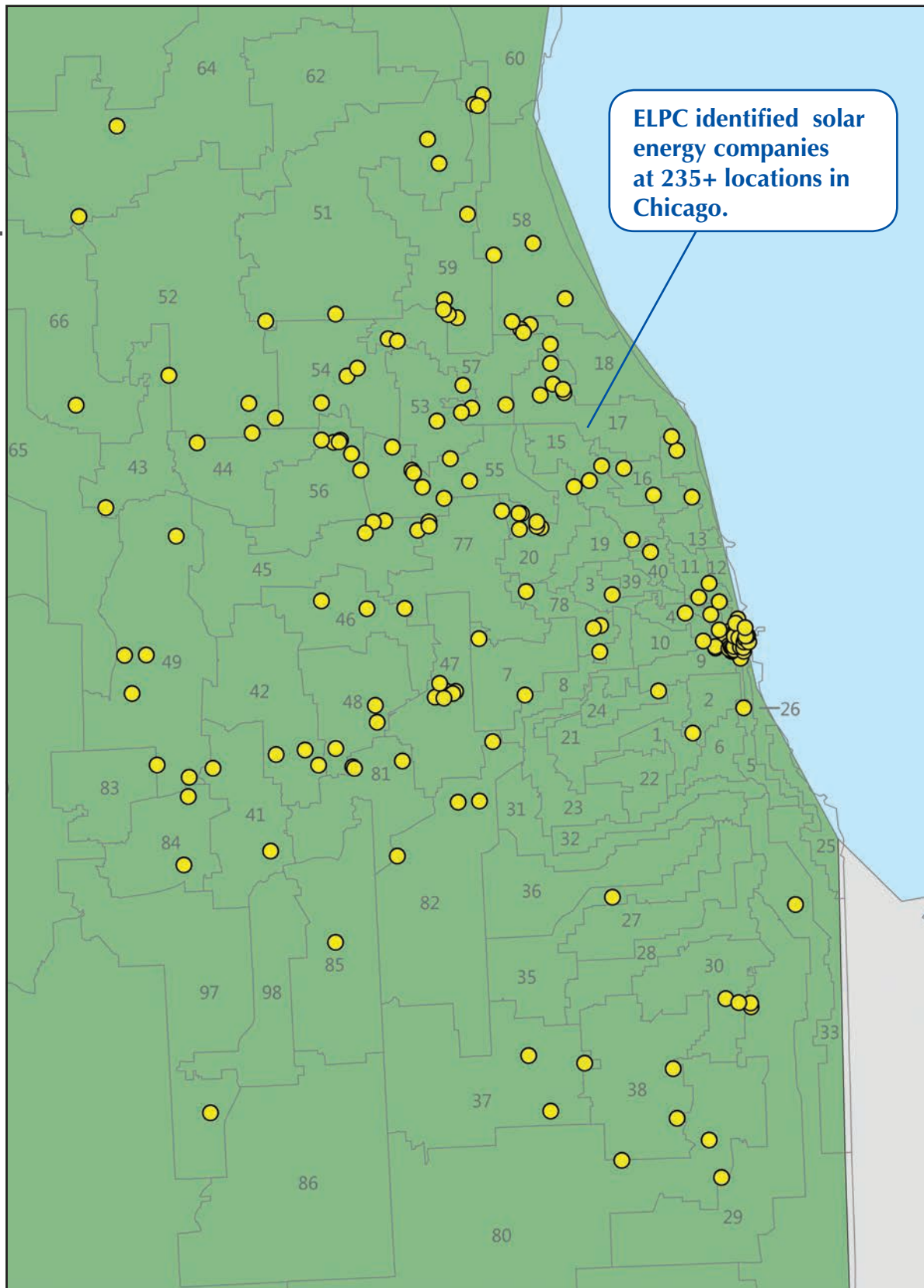
(State House of Representatives Districts)



Full list of companies starts on page 21.

Chicago Area Solar Energy Companies

(State House of Representatives Districts)



Full list of companies starts on page 21.



Clean Energy Sector Spotlights: Wind Energy

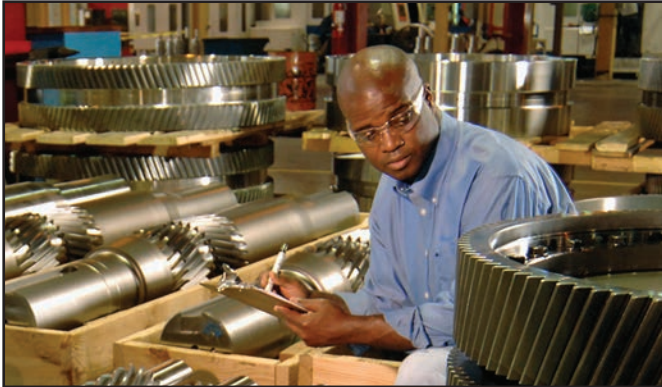
The Environmental Law & Policy Center identified more than 200 businesses engaged in the wind energy industry in Illinois. These companies span a wide range of business activities and functions. Project developers identify viable site locations and coordinate project design and business models for utility-scale and smaller wind installations. Illinois businesses are producing many parts that go into assembling a wind turbine, such as casting the steel lattice for tubular wind towers to manufacturing gearboxes and turbine oil. Wind turbine contractors handle installation and support ongoing operation of wind energy projects. Professional service firms provide financial, legal, engineering and other essential services.

The Chicago metro area has more than 12 global and North American wind energy company headquarters, including, Acciona, Akuo Energy, Broadwind Energy, E.ON Climate & Renewables, Goldwind USA, Invenenergy, Leeco Steel, Lincoln Clean Energy, Nordex USA, NTN Bearing, PNE Wind and Suzlon Wind Energy. These headquarters coordinate wind project development, manufacturing facilities and on-the-ground clean energy construction throughout Illinois and across the Midwest. According to Clean Energy Trust, wind sector companies account for more than 4,000 local jobs and put Illinois at the forefront of the nation's wind energy industry.



WIND ENERGY COMPANY PROFILES

Broadwind Energy, Cicero (Founded 2006)



“The outlook for the wind industry is strong through 2020. As industry costs decline, wind energy is becoming more competitive with conventional power generation. Additionally, our gearing company located just outside of Chicago is benefitting from the positive effects of the resurgence in the gearing market.” – *Stephanie Kushner, President and CEO*

Broadwind Energy is a precision manufacturer of structures, equipment and components for clean tech and other specialized applications. The Company is headquartered in Cicero, Illinois and has manufacturing operations in Illinois, Wisconsin, Texas, Pennsylvania and North Carolina. Broadwind operates in three main operating segments; Towers and Weldments, Gearing and Process Systems. Broadwind acquired Brad Foote Gear Works, a 94-year-old Illinois company focused on a variety of energy markets including wind replacement gearing and now has approximately 120 employees in Illinois.

As of June 30, 2017, Broadwind’s order backlog totaled \$156 million, including a multi-year framework agreement that extends out to 2019.

S&C Electric, Chicago (Founded 1911)



“S&C Electric is a leader in the renewable energy space, with projects dating back nearly two decades. It is exciting working for a company that is pushing the envelope in wind, solar and energy storage markets.” – *Troy Miller, Energy Storage Director*

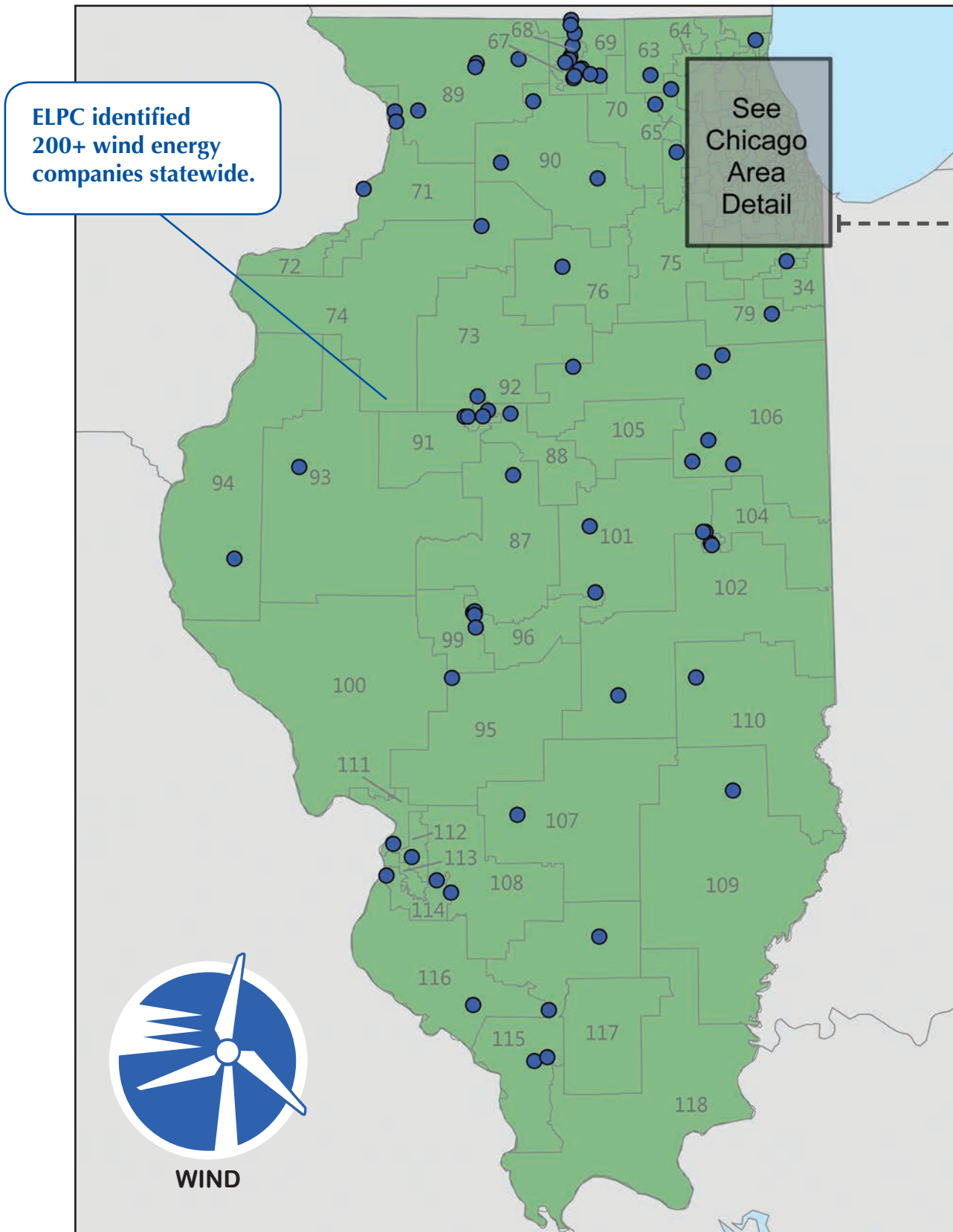
S&C Electric Company (S&C) is a global electrical services leader with more than 100 years of experience designing and manufacturing electrical components. In 1998, S&C moved into the growing renewable

energy industry by producing collector systems for wind turbines to help feed clean power from site to substation. Since then, S&C has expanded into the solar and energy storage industries by manufacturing switchgear and advanced storage management systems. S&C is one of the largest private employers in Chicago and is located in a 4-block area of Chicago’s Rogers Park neighborhood.

In Illinois, S&C has worked with Ameren Corporation to provide energy storage technology for a microgrid in Champaign, Illinois. The project utilizes S&C’s PureWave® SMS-250 Storage Management System, which can supply 500 kilowatt-hours of battery storage. Similar efforts are underway in Beecher, Illinois, where S&C is helping ComEd research Community Energy Storage by providing 25-kilowatt-hour lithium-ion batteries that can power several homes in the event of an outage.

Illinois Wind Energy Companies

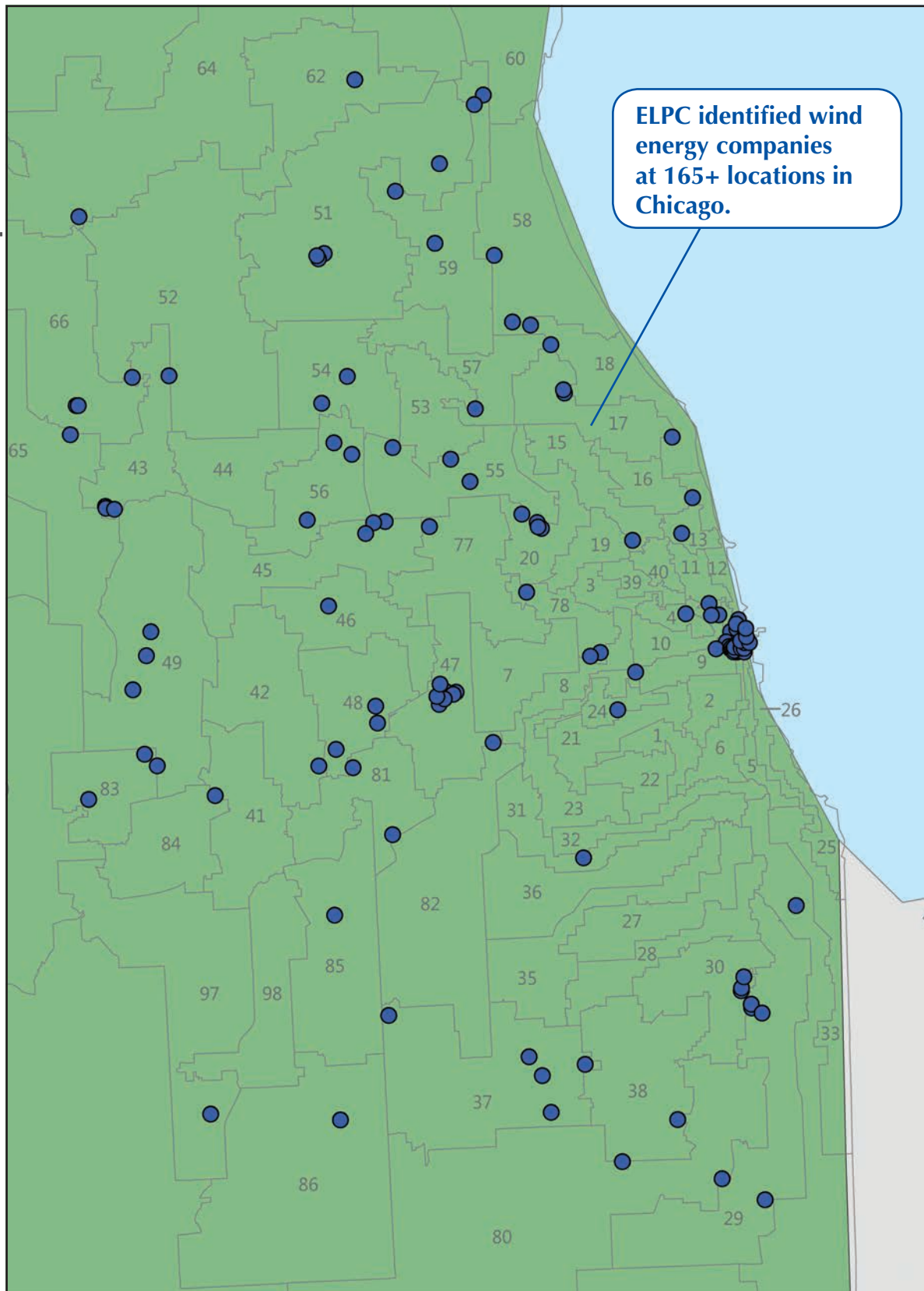
(State House of Representatives Districts)



Full list of companies starts on page 21.

Chicago Area Wind Energy Companies

(State House of Representatives Districts)



Full list of companies starts on page 21.



Clean Energy Sector Spotlights: Geothermal Energy

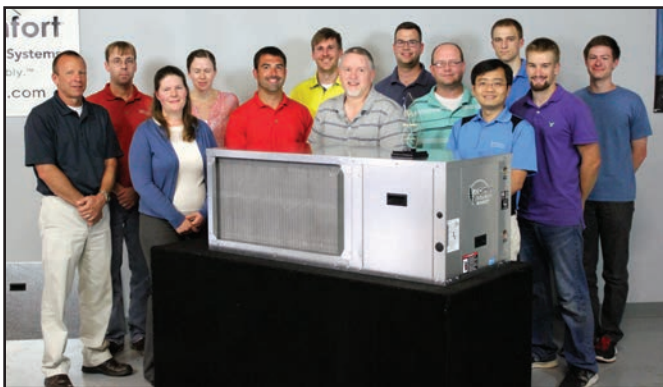
Geothermal energy utilizes the Earth's constant below-ground temperature (approximately 55 degrees Fahrenheit) to offset the need for traditional heat and air conditioning. By using underground thermal loops that circulate water-based fluid and heat exchangers to transfer heat energy from the ground to the fluid (in winter) or from the fluid to the ground (in summer), geothermal energy provides a natural "boost" to reduce a building's heating and cooling energy requirements. Cost savings from avoided energy use can make geothermal energy an economically and environmentally beneficial option for building heating and cooling.

The Environmental Law & Policy Center identified more than 130 Illinois companies that manufacture, design and install geothermal equipment and provide geothermal system controls. These companies comprise an important part of the state's renewable energy landscape.

Traditional heating, ventilation and air conditioning (HVAC) contractors are increasingly offering geothermal options to customers across the state. Combined with expertise in plumbing, duct work, drilling and system installation, companies with geothermal energy offerings favorably differentiate themselves from other HVAC companies.

GEOHERMAL ENERGY COMPANY PROFILE

Enertech Global, Greenville (Founded 1996)



"Our relationship with dealers and distributors helps us to develop innovative products that are easy to install and service." – *Steve Smith, CEO*

Enertech Global has been a manufacturer of geothermal heating and cooling systems for more than 20 years. In 2014, Enertech became part of the European company NIBE Industrier AB which is the largest geothermal heat pump manufacturer in the

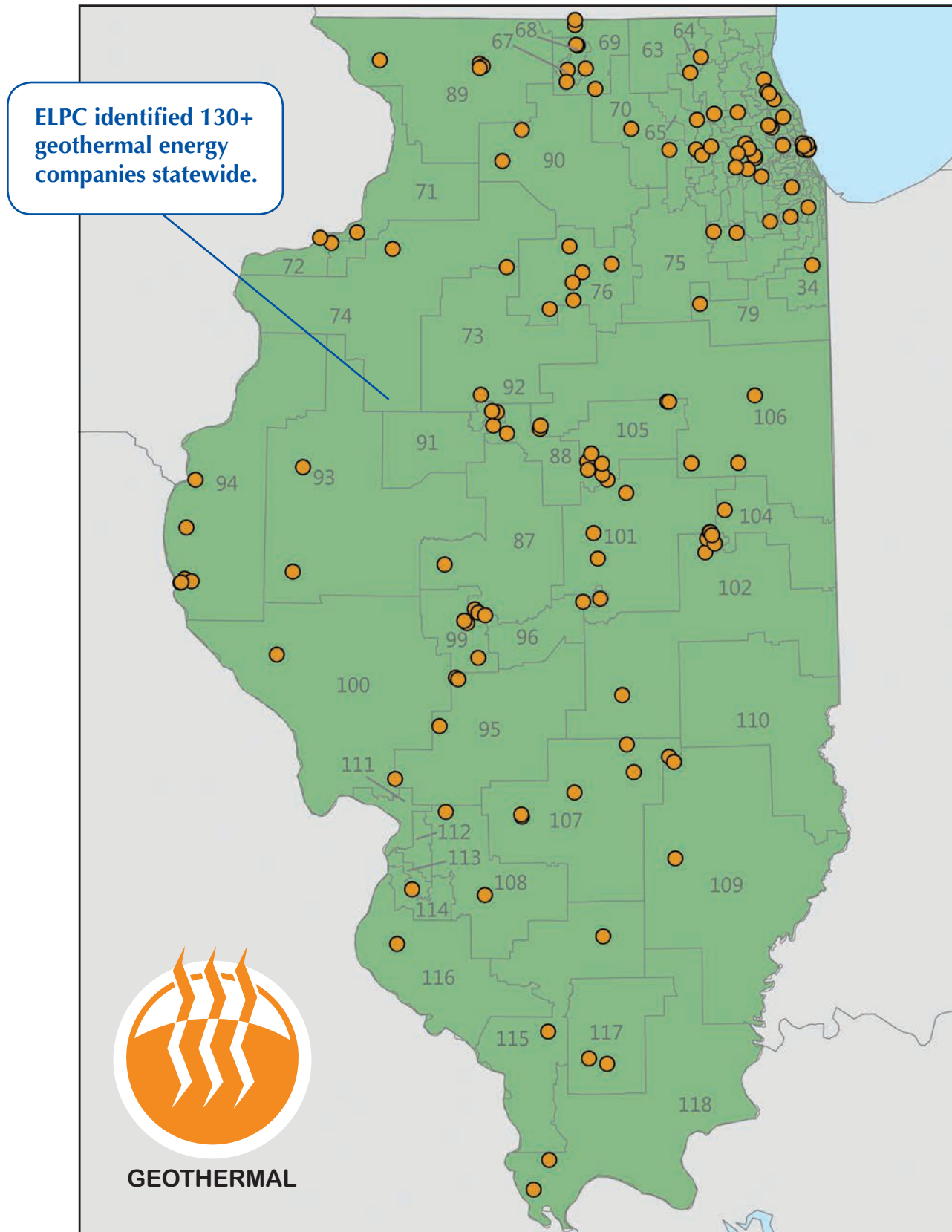
world. The partnership and added support positions Enertech for growth.

Enertech manufactures a suite of products that meet ENERGY STAR requirements. In 2007, the company acquired the Hydron Module brand and formed Enertech Manufacturing. Enertech continues to manufacture Hydron Modules, in addition to GeoComfort and TETCO brands. Each brand has a complete line of residential and commercial models that have applications in both new construction and replacement installations.

Enertech Global's corporate campus, which employs approximately 50 people, is located in Greenville, Illinois. Employees at this location handle engineering, accounting, inside sales, customer service and technical service support. The location is also home to a classroom for local university geothermal classes.

Illinois Geothermal Energy Companies

(State House of Representatives Districts)



Full list of companies starts on page 21.



Clean Energy Sector Spotlights: Energy Storage

One of the most complex challenges of the modern electricity grid is the need to deliver electrons precisely when and where consumers need them. Energy storage is a powerful opportunity to capture electricity surpluses for later use. Pumped hydro storage and flywheels have served this purpose for decades. Now, new electrochemical batteries and other advanced energy storage technologies are potential game-changers for the energy system.

Energy storage is particularly beneficial for accelerating clean energy because we cannot control when and where the sun shines or the wind blows. By helping to bridge gaps between clean energy supply and demand, energy storage smooths and increases the value of wind power and solar energy. Energy storage can also help the electricity grid function more effectively through frequency and voltage regulation services that provide a more precise and flexible alternative to traditional energy transmission and

distribution infrastructure. Finally, energy storage can be co-located with renewable energy sources to increase use of energy generated onsite, and it can help buildings manage electricity demand.

Although the advanced energy storage industry is in its early stages, Illinois has been a Midwest leader with 17 grid-connected storage projects and more than 100 megawatts of storage capacity. The Environmental Law & Policy Center identified more than 75 energy storage companies in Illinois – many of which also participate in other clean energy sectors. According to Clean Energy Trust, Illinois' storage industry employs approximately 1,000 local residents. In 2017, the American Jobs Project found that R&D, manufacturing, deployment and operations associated with utility-scale batteries could support more than 3,000 potential jobs in Illinois from 2017 through 2030.

ENERGY STORAGE COMPANY PROFILE

SiNode Systems, Chicago (Founded 2011)



"Based on technology developed right here in Illinois, SiNode is creating new battery components that enhance lithium-ion storage performance." – Samir Mayekar, CEO

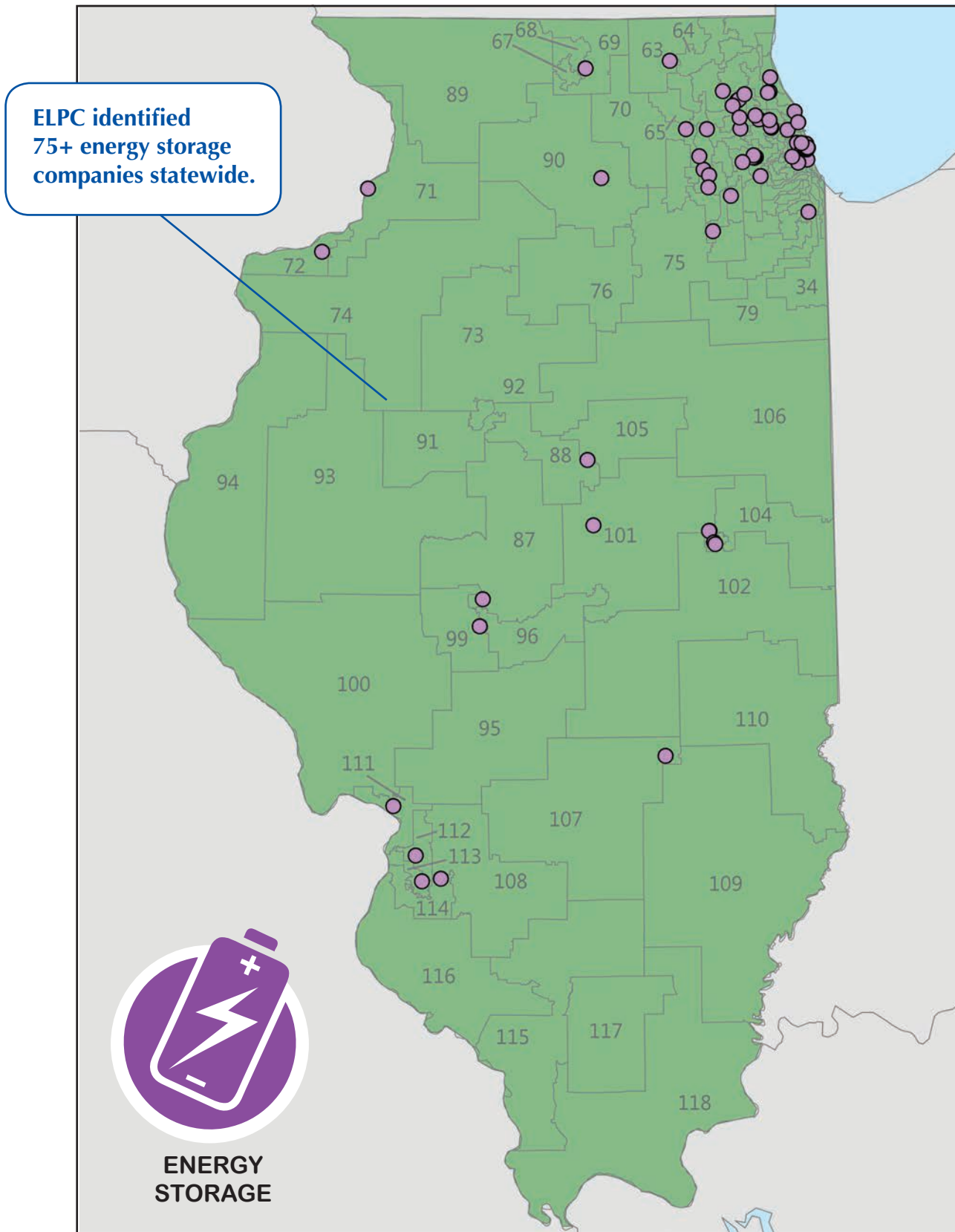
SiNode Systems began as a collaboration between Samir Mayekar, a Northwestern University Kellogg MBA student, university researchers and Argonne National Laboratory with the goal of advancing a patented technology that increases storage capacity and lowers the charging time of lithium-ion batteries.

From cell phones and tablets, to electric vehicles, to utility-scale energy infrastructure, lithium-ion batteries are driving an energy storage revolution across multiple industries. Despite great promise and quickly declining prices, continued progress requires quick charging, high energy density and long life. SiNode Systems' silicone graphene composite anode can be incorporated into batteries to increase storage capacity and reduce charging time.

SiNode Systems has recently taken steps towards its long-term goal of incorporating its technology into electric vehicle batteries. The company's contract with Ford, General Motors and Fiat Chrysler to develop prototype batteries led SiNode Systems to hire five new team members at its headquarters in the Illinois Institute of Technology's University Technology Park.









Illinois Energy Storage Companies









(State House of Representatives Districts)



Full list of companies starts on page 21.

Illinois Clean Energy Business Directory









CITY	COMPANY NAME	CLEAN ENERGY SECTOR				COMPANY FUNCTION				US CONGRESSIONAL DISTRICT	IL HOUSE DISTRICT	IL SENATE DISTRICT
		 SOLAR	 WIND	 GEOTHERMAL	 STORAGE	 MANUFACTURER	 DEVELOPER/ DESIGNER	 CONTRACTOR/ INSTALLER	 PROFESSIONAL SERVICES/OTHER			
Addison	Batteries Unlimited	X							X	8	46	23
Addison	Raimonde Drilling			X				X		8	46	23
Addison	SunHeat Solar	X						X		8	46	23
Alsip	IBEW-NECA Technical Institute	X							X	1	35	18
Altamont	R & H Plumbing, Heating & Electric			X				X		15	107	54
Altamont	Roepke Enterprises	X							X	15	107	54
Alton	JMS Solar Network and Associates	X			X			X	X	12	111	56
Arlington Heights	BYD America	X			X	X				8	57	29
Arlington Heights	KGK International	X				X				10	59	30
Arlington Heights	Technic	X				X			X	8	57	29
Aurora	CEMCON	X	X		X		X			11	49	25
Aurora	CENTA		X			X	X			11	83	42
Aurora	GNB Industrial Power	X			X	X				11	84	42
Aurora	R.C. Wegman		X				X	X		11	83	42
Bannockburn	Marathon Capital	X	X	X					X	10	58	29
Barrington	Athena Global Energy Solutions	X			X	X				6	51	26
Bartlett	BBS Automation	X			X	X				6	49	25
Batavia	Dynamesh	X				X				14	49	25
Batavia	Henkels & McCoy		X		X		X	X		14	49	25
Batavia	State Automatic Heating & Cooling			X				X		14	49	25
Beecher	L & H Services (2)			X				X		2	34	17
Beecher City	Durbin Geothermal			X				X		15	107	54
Belleville	Sigman Heating & Air Conditioning			X				X		12	114	57
Belvidere	NISEnergy Maintenance and Remodeling	X						X		16	69	35
Belvidere	The Morse Group (3)		X					X		16	69	35
Bensenville	Kapital Electric	X					X	X		8	77	39
Bensenville	R+W America	X	X			X				8	77	39
Berkeley	Johnson Bros Metal Forming	X				X				4	7	4
Bloomington	Corn Belt Energy			X					X	18	105	53
Bloomington	Custom Air			X				X		13	88	44
Bloomington	PRO Air (2)			X				X		13	88	44
Bloomington	SBC Heating			X				X		18	105	53
Bloomington	StraightUp Solar (2)	X			X		X	X		13	88	44
Bolingbrook	ABB				X	X				11	85	43
Bolingbrook	G&W Electric		X			X				11	85	43
Bridgeview	Imperial Crane Services (2)		X					X		3	31	16
Brighton	DenSon Heating and Cooling			X				X		13	95	48
Broadview	Current Communications & Electric	X						X		7	7	4
Buffalo	D & D Electric	X					X	X		18	87	44
Buffalo Grove	Carlo Gavazzi	X				X				10	57	29
Buffalo Grove	Meteocontrol North America	X				X	X	X		10	59	30
Buffalo Grove	Yaskawa America (2)	X				X				10	59	30
Burr Ridge	Solar Micronics	X		X	X		X	X		11	82	41
Byron	SunAir Systems	X	X				X	X		16	90	45
Camp Point	Adams Electric Cooperative	X	X						X	18	94	47
		CLEAN ENERGY SECTOR				COMPANY FUNCTION						

CITY	COMPANY NAME	CLEAN ENERGY SECTOR				COMPANY FUNCTION				US CONGRESSIONAL DISTRICT	IL HOUSE DISTRICT	IL SENATE DISTRICT
		 SOLAR	 WIND	 GEOTHERMAL	 STORAGE	 MANUFACTURER	 DEVELOPER/ DESIGNER	 CONTRACTOR/ INSTALLER	 PROFESSIONAL SERVICES/OTHER			
Carlinville	Kufa & Son Heating & Air Conditioning			X				X		13	95	48
Carpentersville	Stanley Machining & Tool (2)		X			X				8	43	22
Carterville	Advanced Energy Solutions Group	X					X	X		12	117	59
Carterville	RSP			X				X	X	12	117	59
Champaign	Bratcher Heating & Air Conditioning (3)			X				X		13	103	52
Champaign	ERDC-CERL	X			X		X	X		13	103	52
Champaign	Henneman Engineering Services (3)	X	X	X	X		X	X		13	103	52
Champaign	Henneman Engineering Services (3)	X	X	X	X		X	X		13	103	52
Champaign	HL Precision Machining	X				X				13	103	52
Champaign	Jesse Heating & Air Conditioning (2)			X				X		13	102	51
Champaign	Littelfuse (2)	X	X		X	X				13	103	52
Champaign	Midwest Underground Technology (2)		X			X		X		13	103	52
Champaign	Reliable Mechanical			X			X	X		13	103	52
Champaign	The Habegger Corp. (4)			X					X	13	103	52
Cherry Valley	A Polar Bear Air			X				X		16	69	35
Cherry Valley	Ipsen	X	X			X				16	69	35
Chicago	360 Energy Group			X			X			9	55	28
Chicago	Able Distributors	X							X	4	3	2
Chicago	ACCIONA Energy N.A.	X	X				X			7	5	3
Chicago	Advisory Research	X							X	7	5	3
Chicago	Aileron Communications	X	X		X				X	7	5	3
Chicago	Ailey Solar	X			X		X	X		4	21	11
Chicago	Akuo Energy		X				X			7	26	13
Chicago	Aldridge Electric (3)	X	X					X		7	6	3
Chicago	AllCell Technologies				X	X				4	2	1
Chicago	Alternative Currents	X						X		4	40	20
Chicago	Alvarez & Marsal Valuation	X	X	X	X				X	7	9	5
Chicago	Ameresco (3)	X	X	X			X	X		7	5	3
Chicago	Aon Risk Solutions	X	X	X					X	7	5	3
Chicago	ArcelorMittal		X			X				7	5	3
Chicago	Arthur J Gallagher & Co.	X							X	7	9	5
Chicago	Atlas Tube	X	X			X				2	34	17
Chicago	Baker McKenzie	X	X						X	7	26	13
Chicago	Baker Tilly (2)	X	X	X	X		X		X	7	5	3
Chicago	Bank of America Merrill Lynch	X	X	X	X				X	7	6	3
Chicago	Believe Green	X							X	7	9	5
Chicago	Berkley Renewable Energy	X	X	X	X				X	7	9	5
Chicago	Borrego Solar	X			X		X			7	5	3
Chicago	Brinks Gilson & Lione	X							X	7	26	13
Chicago	Burnham	X							X	7	6	3
Chicago	Burns & McDonnell (3)	X	X		X		X			7	6	3
Chicago	Carbit Paint		X					X		5	10	5
Chicago	Carbon Solutions Group	X	X	X	X				X	7	9	5
Chicago	Cardno (3)	X	X				X			7	6	3
Chicago	Chapman & Cutler	X	X	X					X	7	6	3

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		SOLAR	WIND	GEOTHERMAL	STORAGE	MANUFACTURER	DEVELOPER/DESIGNER	CONTRACTOR/INSTALLER	PROFESSIONAL SERVICES/OTHER			
Chicago	Chart House Energy	X					X			7	9	5
Chicago	CIC Energy Consulting	X					X	X		7	9	5
Chicago	Clean Line Energy Partners	X	X				X			7	6	3
Chicago	CNA (2)	X	X	X					X	7	5	3
Chicago	CohnReznick	X					X		X	7	9	5
Chicago	Constellation NewEnergy		X						X	7	6	3
Chicago	Crowe Horwath (3)	X							X	7	6	3
Chicago	Cushman & Wakefield	X	X	X					X	7	6	3
Chicago	DLA Piper	X	X						X	7	6	3
Chicago	Double-K Towers		X				X			5	13	7
Chicago	E.ON Climate & Renewables N.A.	X	X				X	X		7	5	3
Chicago	Eco Achievers	X					X			7	10	5
Chicago	Element Energy Consulting	X		X			X			7	6	3
Chicago	Eligo Energy		X						X	7	6	3
Chicago	Enablon	X	X						X	7	9	5
Chicago	Enovation Partners	X	X		X		X			7	5	3
Chicago	Environmental Systems Design	X		X			X			7	6	3
Chicago	Exelon	X	X				X			7	6	3
Chicago	Exponent	X	X				X			7	9	5
Chicago	Financial Risk Solutions	X							X	7	6	3
Chicago	Finkl Steel		X			X				5	11	6
Chicago	Gabriel Environmental Services (2)	X	X	X	X		X	X	X	5	10	5
Chicago	GI Energy	X	X	X			X	X		7	5	3
Chicago	Glidepath				X		X			7	6	3
Chicago	Goldwind USA	X	X		X	X	X			7	6	3
Chicago	Hardt Electric	X	X		X		X	X		5	15	8
Chicago	HDR Engineering (5)	X	X		X		X			7	6	3
Chicago	HDR Engineering (5)	X	X		X		X			7	5	3
Chicago	HDR Engineering (5)	X	X		X		X			9	55	28
Chicago	Henneman Engineering Services (3)	X	X	X	X		X	X		7	9	5
Chicago	Houlihan Lokey Strategic Consulting	X	X						X	7	9	5
Chicago	Howard Alan Architects	X					X			5	10	5
Chicago	Hudson Energy Services		X						X	7	9	5
Chicago	Husch Blackwell	X	X						X	7	9	5
Chicago	IHI Energy Storage				X		X			7	6	3
Chicago	IIT	X			X		X			7	6	3
Chicago	Intelligent Generation	X			X				X	7	6	3
Chicago	Invenergy	X	X		X		X	X		7	9	5
Chicago	J.P. Morgan	X	X						X	7	6	3
Chicago	Jenner & Block		X						X	7	5	3
Chicago	Johnson & Bell		X						X	7	5	3
Chicago	Jordan, Knauff & Co.	X							X	7	6	3
Chicago	Juhl Energy	X	X		X		X			7	9	5
Chicago	KenJiva Energy Systems	X			X			X		7	5	3
Chicago	KMB Design Group	X					X			9	55	28
		CLEAN ENERGY SECTOR				COMPANY FUNCTION						

CITY	COMPANY NAME	CLEAN ENERGY SECTOR				COMPANY FUNCTION				US CONGRESSIONAL DISTRICT	IL HOUSE DISTRICT	IL SENATE DISTRICT
		 SOLAR	 WIND	 GEOTHERMAL	 STORAGE	 MANUFACTURER	 DEVELOPER/DESIGNER	 CONTRACTOR/INSTALLER	 PROFESSIONAL SERVICES/OTHER			
Chicago	kW Engineering	X			X		X			7	5	3
Chicago	Lake Street Development Partners	X					X			7	5	3
Chicago	Larson Engineering (2)	X					X			7	9	5
Chicago	Latham & Watkins	X	X	X	X				X	7	9	5
Chicago	Lendlease	X			X		X	X		7	6	3
Chicago	Lincoln Clean Energy	X	X				X			7	26	13
Chicago	Littelfuse (2)	X	X		X	X				9	55	28
Chicago	Lucas Group	X	X	X					X	7	6	3
Chicago	Mainstay Energy	X	X				X			7	26	13
Chicago	MAKE Consulting			X					X	7	6	3
Chicago	Marshall & Stevens	X	X	X					X	7	9	5
Chicago	Marshall, Gerstein & Borun	X	X	X					X	7	9	5
Chicago	Mayer Brown	X	X	X	X				X	7	9	5
Chicago	MC Squared Energy Services	X	X						X	7	6	3
Chicago	McDermott, Will & Emery	X	X						X	7	6	3
Chicago	Mesirow Financial Consulting	X							X	7	5	3
Chicago	Michael Stavy, Renewable Energy Tech.	X	X		X				X	7	5	3
Chicago	Navigant Consulting (2)	X	X		X				X	7	6	3
Chicago	Navigant Consulting (2)	X	X		X				X	7	6	3
Chicago	New Generation Power	X					X			7	5	3
Chicago	Nixon Peabody	X	X	X					X	7	6	3
Chicago	Nordex USA		X			X	X	X	X	7	9	5
Chicago	Patrick Engineering (3)	X	X				X	X		7	5	3
Chicago	Plante Moran	X	X						X	7	9	5
Chicago	PNE Wind USA	X	X				X			7	5	3
Chicago	Polsinelli Shughart	X							X	7	6	3
Chicago	Power Engineers Collaborative	X	X			X				7	9	5
Chicago	Prudential Capital Group				X				X	7	5	3
Chicago	Public Financial Management	X	X						X	7	6	3
Chicago	Renewance				X				X	7	6	3
Chicago	ResCom Energy	X	X						X	7	5	3
Chicago	RT Specialty	X	X		X				X	7	5	3
Chicago	S&C Electric	X	X		X	X	X	X	X	9	14	7
Chicago	Sargent & Lundy	X	X	X	X		X		X	7	5	3
Chicago	Schiff Hardin	X	X						X	7	9	5
Chicago	Serena Sturm Architects	X		X			X			5	10	5
Chicago	SiNode Systems				X				X	1	6	3
Chicago	SoCore Energy	X			X		X	X		7	5	3
Chicago	SolarWerks	X					X	X		5	11	6
Chicago	StudioGC Architecture & Interiors			X			X			7	6	3
Chicago	SunStar Strategic	X							X	7	5	3
Chicago	Suzlon Energy		X			X	X	X		9	55	28
Chicago	T.H. Bender & Partners	X	X		X				X	7	5	3
Chicago	Terracon (3)		X				X			7	6	3
Chicago	Transearch	X	X	X	X				X	7	5	3

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		SOLAR	WIND	GEOTHERMAL	STORAGE	MANUFACTURER	DEVELOPER/DESIGNER	CONTRACTOR/INSTALLER	PROFESSIONAL SERVICES/OTHER			
Chicago	TRC Environmental Corp	X	X				X			7	6	3
Chicago	U.S.WAY	X	X			X	X	X		7	5	3
Chicago	Urban Green Technologies	X			X		X			7	5	3
Chicago	Verde Solutions	X					X	X		5	11	6
Chicago	VLV Green Initiative	X					X	X		7	6	3
Chicago	West Monroe Partners	X							X	7	6	3
Chicago	Wheatland Tube	X				X				4	2	1
Chicago	Wight & Co. (2)	X						X		7	6	3
Chicago	William Blair	X							X	7	6	3
Chicago	Windfree Solar	X	X		X		X	X		4	4	2
Chicago	Winston & Strawn		X						X	7	5	3
Chicago	Woodlawn Associates	X	X		X		X			7	9	5
Chicago	Yelloblu	X							X	7	6	3
Chicago	ZF Chassis Systems (2)		X			X		X		6	51	26
Chicago	Johnson Controls (4)			X				X		7	9	5
Cicero	Brad Foote Gear Works		X			X				4	23	12
Cicero	Broadwind Energy		X			X				4	24	12
Clinton	PRO Air (2)			X				X		13	101	51
Clinton	Trinity Structural Towers		X		X	X				13	101	51
Collinsville	Day & Night Solar	X			X		X		X	13	112	56
Collinsville	Dynergy Energy Services		X						X	13	112	56
Compton	Heavenly Winds	X						X		16	90	45
Cordova	HDR Engineering (5)	X	X		X		X			17	71	36
Country Club Hills	ICC Evaluation Service	X							X	2	38	19
Crete	Universal Steel America		X			X				2	29	15
Crystal Lake	Building Energy Experts	X	X	X				X		14	64	32
Cullom	Krause Surveying		X				X			16	106	53
Damiansville	Toennies Service			X				X		15	108	54
Danville	Kuchefski Heating & Air Conditioning	X						X		15	104	52
Darien	Wight & Co. (2)	X						X		11	82	41
Decatur	Design Air			X				X		13	96	48
Decatur	Jesse Heating & Air Conditioning (2)			X				X		13	96	48
Decatur	L.E. Myers Co.	X	X					X	X	13	96	48
Deer Park	PureGen Power	X					X		X	6	51	26
Des Plaines	Advanced Alternative Energy Products	X	X		X			X	X	8	53	27
Des Plaines	La Marche Manufacturing	X	X		X	X				5	55	28
Divernon	Weidner Refrigeration			X				X		18	99	50
Dixon	Johnson Controls (4)			X				X		16	90	45
Dixon	Willet, Hofmann & Associates	X	X				X		X	16	90	45
Downers Grove	Burns & McDonnell (3)	X	X		X		X			6	48	24
Downers Grove	Fastener SuperStore	X	X						X	11	81	41
Downers Grove	Molex Fiber Optics	X				X				11	81	41
Downers Grove	Robert Bair Services	X		X			X	X		6	81	41
Downs	Kickapoo Drilling			X				X		18	101	51
DuQuoin	General Cable	X	X			X				12	115	58
		CLEAN ENERGY SECTOR				COMPANY FUNCTION						

CITY	COMPANY NAME	CLEAN ENERGY SECTOR				COMPANY FUNCTION				US CONGRESSIONAL DISTRICT	IL HOUSE DISTRICT	IL SENATE DISTRICT
		 SOLAR	 WIND	 GEOTHERMAL	 STORAGE	 MANUFACTURER	 DEVELOPER/DESIGNER	 CONTRACTOR/INSTALLER	 PROFESSIONAL SERVICES/OTHER			
Dwight	Popejoy (2)			X				X		16	79	40
East Dundee	Lauderdale Electric	X	X					X		8	43	22
East Moline	QC Geothermal			X				X		17	71	36
East Peoria	Bratcher Heating & Air Conditioning (3)			X				X		18	91	46
East Peoria	Johnson Controls (4)			X				X		18	88	44
East St. Louis	Afton Chemical		X			X				12	116	58
Effingham	Crossroads Geothermal Drilling			X				X		15	107	54
Effingham	KCH Mechanical			X				X		15	107	54
Effingham	Tick Tock Energy	X			X		X	X		15	107	54
Elburn	J & R Herra (2)			X				X		14	50	25
Elgin	Advanced Geothermal Plumbing & Heating			X				X		8	43	22
Elgin	Environmental Comfort Team			X				X		8	44	22
Elgin	Harting USA		X			X				8	43	22
Elgin	Helukabel USA	X	X			X				8	43	22
Elgin	Plasmatreat North America	X	X			X				6	66	33
Elgin	The Morse Group (3)		X					X		6	66	33
Elgin	Winergy Drive Systems		X			X				6	65	33
Elizabeth	Jo-Carroll Energy			X					X	17	89	45
Elk Grove	Greenlee Diamond Tool	X				X				8	55	28
Elk Grove Village	Dynalene	X				X				8	55	28
Elk Grove Village	Indium	X				X				8	55	28
Elk Grove Village	Shamrock Electric	X						X		8	55	28
Elkville	T&A Excavating			X				X		12	115	58
Evanston	CS2 Renewable Energy	X					X			9	18	9
Evanston	WindSoleil	X	X		X			X	X	9	18	9
Fairbury	Steidinger Brothers			X				X		16	105	53
Fairbury	Popejoy, Inc. (2)			X				X		16	105	53
Fairview Heights	Pyramid Electrical Contractors	X						X		12	112	56
Flora	Clay Electric Cooperative	X		X					X	15	109	55
Frankfurt	Hanson Professional Services (7)	X	X				X			1	37	19
Franklin Park	H&H Electric	X	X					X		5	78	39
Freeport	Fehr Graham		X				X			17	89	45
Freeport	Jansen Heating, AC, Geothermal & Electrical	X		X				X		17	89	45
Freeport	Lemanski Heating & Air Conditioning			X				X		17	89	45
Freeport	Loescher Heating & Air Conditioning			X				X		17	89	45
Freeport	The Morse Group (3)		X					X		17	89	45
Geneseo	Wirth, Inc.			X				x		17	74	37
Geneva	Habi-Tek	X						X		14	49	25
Geneva	J & R Herra (2)			X				X		14	65	33
Geneva	Rethink Electric	X	X				X	X		14	49	25
Gibson City	Hi-Tech Towers		X			X		X		15	106	53
Gibson City	Houston Plumbing Heating Cooling (2)			X				X		16	106	53
Gilman	L & H Services (2)			X				X		16	106	53
Glen Ellyn	Chicagoland Geothermal			X				X		6	48	24
Glendale	Eaton	X							X	8	46	23

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Glendale Heights	HYDAC		X			X				8	46	23
Glenview	Anixter	X							X	10	17	9
Glenview	D/R Services Unlimited	X	X					X		9	17	9
Glenview	March Manufacturing	X				X				10	17	9
Glenview	Solar Energy of Illinois	X						X		10	57	29
Glenview	WinSol Power	X	X					X		9	17	9
Goodfield	Hinrichsen Heating & Air Conditioning			X				X		18	106	53
Goodfield	The Hole Deal			X				X		18	106	53
Goodfield	Tri County Irrigation & Plumbing			X				X	X	18	106	53
Granite City	Guarantee Electrical	X						X		12	113	57
Grayslake	Harger Lightning & Grounding		X			X		X		10	62	31
Greenville	A&D Electrical Supply (2)	X							X	15	107	54
Greenville	Enertech Global			X		X				15	107	54
Greenville	Southwestern Electric Cooperative	X	X	X		X				15	107	54
Gurnee	Dynapar		X			X				10	60	30
Hamel	Ernst Heating & Cooling			X				X		15	108	54
Hamilton	Peters Heating & Air Conditioning (3)			X				X		18	94	47
Hampshire	Stanley Machining & Tool Corp. (2)		X			X				14	65	33
Harvey	Allied Tube & Conduit	X				X				2	30	15
Harvey	CN Worldwide	X						X		2	30	15
Harvey	LB Steel (2)		X			X				2	30	15
Harvey	LB Steel (2)		X			X				2	30	15
Harvey	Unistrut Energy Solutions	X						X		2	30	15
Highland Park	Highland Park Electric	X			X			X		10	58	29
Highland Park	The Solar Electric Vehicle Co.	X							X	10	58	29
Hillsboro	IL-Solar	X					X	X		13	95	48
Hoffman Estates	Bosch Rexroth		X			X				6	51	26
Hoffman Estates	CQ Industries	X							X	8	44	22
Hoffman Estates	FANUC America	X				X				8	52	26
Hoffman Estates	Omron Electronics	X				X				8	52	26
Hopedale	EDP Renewables North America		X				X		X	18	87	44
Huntley	Aldridge Electric (3)	X	X					X		14	65	33
Itasca	Heilind Electronics	X	X						X	8	45	23
Itasca	Mortenson	X	X				X	X		8	45	23
Itasca	Solberg Filtration	X	X		X	X				8	45	23
Johnsburg	Magitek Energy Solutions	X					X	X		14	63	32
Joliet	Midwest Access Solutions		X	X				X		11	86	43
Kankakee	Gordon Electric Supply (2)		X						X	2	79	40
Lafox	Richardson Electronics	X	X			X			X	14	50	25
Lake Forest	W.W. Grainger	X							X	10	59	30
Lake Zurich	AS Tech Americas		X			X		X		6	51	26
Lake Zurich	Smalley Steel Ring		X			X				6	51	26
LaSalle	Imperial Crane Services (2)		X					X		16	76	38
Leroy	Hardesty Heating & Cooling			X				X		18	101	51
Libertyville	Advance Renewables	X					X			10	51	26
		CLEAN ENERGY SECTOR				COMPANY FUNCTION						

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		 SOLAR	 WIND	 GEOTHERMAL	 STORAGE	 MANUFACTURER	 DEVELOPER/ DESIGNER	 CONTRACTOR/ INSTALLER	 PROFESSIONAL SERVICES/OTHER			
Libertyville	Aldridge Electric (3)	X	X					X		10	51	26
Lima	Vinson & Sill			X				X		18	94	47
Lincolnwood	EJOT	X				X				9	16	8
Lisle	CNA (2)	X	X	X					X	6	48	24
Lisle	Guggenheim Investments	X							X	6	42	21
Lisle	Leeco Steel		X			X				11	81	41
Lisle	Patrick Engineering (3)	X	X				X	X		11	42	21
Litchfield	A&D Electrical Supply (2)	X							X	13	95	48
Lockport	Panduit (2)		X			X		X		3	37	19
Lombard	Stantec	X	X			X				6	48	24
Loves Park	Gleason		X			X				16	68	34
Machesney Park	Kinovate			X				X		16	68	34
Machesney Park	Parker Hannifin		X			X				16	68	34
Machesney Park	Synergy Heating & Cooling	X		X				X		16	68	34
Macomb	McDonough Power Cooperative	X	X	X					X	18	93	47
Marion	D&C Heating & Cooling			X				X		12	117	59
Maroa	Mashburn Well Drilling			X				X		13	101	51
Mascoutah	Legrand North America	X	X			X				12	108	54
Matteson	Green Guy Solutions	X	X					X		2	38	19
Mattoon	Coles-Moultrie Electric Cooperative		X						X	15	110	55
McHenry	Solar Connections International	X				X				14	64	32
McHenry	Sub-Surface Geothermal			X				X		14	64	32
McNabb	Grasser's Plumbing & Heating			X				X		16	76	38
Melrose Park	Power Plant Services		X	X		X		X		8	43	22
Melvin	Arends Bros. Wind Energy		X			X		X		16	106	53
Milan	Saft America				X				X	17	72	36
Millstadt	In-Land Technologies	X				X				12	116	58
Minonk	SMF		X			X				18	106	53
Mokena	Gordon Electric Supply (2)		X						X	1	37	19
Moline	Midwest Sustainable Energy Contractors	X		X			X			17	72	36
Monee	Cardno (3)	X	X				X			2	80	40
Morton	Garber Heating & Air Conditioning			X				X		18	88	44
Morton Grove	Eco-Solar Solutions	X		X			X	X		9	16	8
Mount Olive	Geotechnical Construction			X				X		12	118	59
Mount Prospect	Atlas Material Testing Solutions	X				X				10	57	29
Mount Prospect	NTN Bearing Corporation of America		X			X				10	57	29
Mount Prospect	Schumacher Electric	X				X				10	57	29
Mount Prospect	Weldy Lamont Associates	X							X	9	53	27
Mt Sterling	The Comfortman-Scranton Heating & Cooling			X				X		18	93	47
Mt Vernon	Tri-County Electric Cooperative	X	X	X					X	12	115	58
Mt. Carmel	Dersch Energies	X					X	X		15	109	55
Mt. Carroll	MacLean-Fogg (4)		X			X				17	89	45
Mundelein	MacLean-Fogg (4)		X			X				10	59	30
Murphysboro	Egyptian Electric (2)	X	X						X	12	115	58
Murphysboro	Hanson Professional Services (7)	X	X				X			12	115	58

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Illinois Clean Energy Business Directory









CITY	COMPANY NAME	CLEAN ENERGY SECTOR				COMPANY FUNCTION				US CONGRESSIONAL DISTRICT	IL HOUSE DISTRICT	IL SENATE DISTRICT
		 SOLAR	 WIND	 GEOTHERMAL	 STORAGE	 MANUFACTURER	 DEVELOPER/DESIGNER	 CONTRACTOR/INSTALLER	 PROFESSIONAL SERVICES/OTHER			
Naperville	A Solar Studio	X					X			11	41	21
Naperville	BBI Batteries	X			X	X				14	84	42
Naperville	Diehl Controls North America	X				X				6	42	21
Naperville	Larson Engineering (2)	X					X			6	41	21
Naperville	Terracon (3)		X				X			11	41	21
Naperville	WCP Solar	X					X	X		11	49	25
Newton	Norris Electric Cooperative	X	X						X	15	109	55
Niles	MicroLink Devices	X				X				9	15	8
Niles	Solar Service	X						X		9	20	10
Normal	Bratcher Heating & Air Conditioning (3)			X				X		18	105	53
North Utica	Unimin Corp. (5)			X					X	16	76	38
Northbrook	Dadeni Solar Humboldt	X			X		X			10	58	29
Northbrook	Energy Connection	X	X	X					X	10	58	29
Northbrook	Geothermal Energy Solutions	X		X			X	X		10	58	29
Northbrook	Lower Electric	X	X						X	9	18	9
Northbrook	Robert's Heating & Air Conditioning			X				X		9	17	9
Northbrook	Rosenthal Manufacturing	X				X				9	17	9
Northbrook	UL, LLC	X	X		X				X	10	18	9
Northbrook	Underwriters Laboratories	X	X		X				X	10	18	9
Oak Brook	Ameresco (3)	X	X	X			X	X		5	47	24
Oak Brook	Bigues Energy	X	X				X			5	47	24
Oak Brook	Castle Metals		X			X				5	47	24
Oak Brook	Continental Electrical Construction	X			X		X	X		5	47	24
Oak Brook	Crowe Horwath (3)	X							X	5	47	24
Oak Brook	Hanson Professional Services (7)	X	X				X			5	47	24
Oak Forest	S Mechanical			X			X	X		3	36	18
Oak Park	Architectural Consulting Engineers	X		X			X			7	78	39
Oak Park	Ecological Products	X					X	X		7	78	39
Oak Park	General Energy	X	X					X		7	78	39
Oak Park	Professional Logistics Group		X				X			7	8	4
Oakbrook	Baker Tilly (2)	X	X	X	X		X		X	5	47	24
Oakbrook Terrace	Graycor Industrial Constructors		X		X		X	X		5	47	24
Oakbrook Terrace	Nordic Energy Services	X	X	X	X				X	5	47	24
O'Fallon	Burns & McDonnell (3)	X	X		X		X			12	114	57
Oglesby	John's Service & Sales			X				X		16	76	38
Oregon	Solar Solutions	X							X	16	90	45
Oregon	Unimin Corp. (5)			X					X	16	90	45
Orland Park	The Horton Group	X	X	X					X	1	37	19
Ottawa	B&B Electronics	X				X			X	16	76	38
Ottawa	Pilkington North America	X				X				16	76	38
Ottawa	Unimin Corp. (5)			X					X	16	76	38
Palatine	Avangrid Renewables	X	X		X		X			6	54	27
Palatine	GRNE Solar	X			X		X	X		6	54	27
Palatine	Schneider Electric (2)	X	X	X	X	X	X		X	6	54	27
Park Forest	Aeritecture International	X	X			X	X	X	X	2	80	40
		CLEAN ENERGY SECTOR				COMPANY FUNCTION						

CITY	COMPANY NAME	CLEAN ENERGY SECTOR				COMPANY FUNCTION				US CONGRESSIONAL DISTRICT	IL HOUSE DISTRICT	IL SENATE DISTRICT
		 SOLAR	 WIND	 GEOTHERMAL	 STORAGE	 MANUFACTURER	 DEVELOPER/ DESIGNER	 CONTRACTOR/ INSTALLER	 PROFESSIONAL SERVICES/OTHER			
Park Forest	Millennium Solar Electrical	X						X		2	80	40
Park Ridge	Green Ways 2Go				X		X	X		9	55	28
Paxton	Eastern Illini Electric Cooperative	X	X						X	15	106	53
Paxton	Houston Plumbing Heating Cooling (2)			X				X		15	106	53
Pecatonica	Anpec Industries		X			X				16	89	45
Pekin	Central Heating & Air Conditioning			X				X		17	92	46
Peoria	Caterpillar	X					X			17	92	46
Peoria	Connor			X					X	18	92	46
Peoria	Hanson Professional Services (7)	X	X				X			18	73	37
Peoria	Midwest Green Energy	X							X	17	92	46
Peoria	ROHN (2)		X			X				18	92	46
Peoria	ROHN (2)		X			X				18	91	46
Peoria	Ruyle Mechanical Services	X					X	X		17	92	46
Peoria	Shay Phillips	X	X						X	17	92	46
Peoria	The Habegger Corp. (4)			X					X	18	73	37
Peoria	Wind and Solar Energy by Blackshor	X	X					X		18	92	46
Peotone	Hanson Professional Services (7)	X	X				X			2	79	40
Petersburg	Collins Plumbing Heating & Cooling (2)			X				X		18	87	44
Phoenix	Sterling Lumber		X	X				X		2	30	15
Pittsfield	Peters Heating & Air Conditioning (3)			X				x		18	100	50
Princeton	Town & Country Services (2)			X				X		16	74	37
Prospect Heights	Green CPA	X							X	9	53	27
Quincy	Air Specialists	X		X				X		18	94	47
Quincy	Elam Heating & Air Conditioning			X				X		18	94	47
Quincy	Keck Heating & Air Conditioning			X				X		18	94	47
Quincy	Peters Heating & Air Conditioning (3)			X				X		18	94	47
Quincy	Stevens Heating & Air			X				X		18	94	47
Rock Island	The Habegger Corp. (4)			X					X	17	72	36
Rockford	Abbott Plastics		X			X				17	67	34
Rockford	Area Mechanical			X				X		17	67	34
Rockford	D Machine		X			X				16	68	34
Rockford	Gabriel Environmental Services (2)	X	X	X	X		X	X	X	16	68	34
Rockford	Geostar Mechanical	X		X				X		17	67	34
Rockford	Hanson Professional Services (7)	X	X				X			16	68	34
Rockford	Ingersoll Machine Tools		X			X				16	68	34
Rockford	Rockford Toolcraft	X				X				17	67	34
Rockford	Target Laser & Machining	X				X				17	67	34
Rockford	Terracon (3)		X				X			17	67	34
Rockford	The Caldwell Group		X					X		17	67	34
Rockford	Wanxiang New Energy	X				X				16	67	34
Rolling Meadows	The MYR Group	X	X					X		8	55	28
Romeoville	Metropolitan Industries	X				X				3	85	43
Roscoe	Excel Gear		X			X				16	69	35
Roscoe	Forest City Gear		X			X				16	69	35
Rosemont	Roof Integrated Solar Energy	X							X	5	20	10

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		 SOLAR	 WIND	 GEOTHERMAL	 STORAGE	 MANUFACTURER	 DEVELOPER/ DESIGNER	 CONTRACTOR/ INSTALLER	 PROFESSIONAL SERVICES/OTHER			
Rosemont	Sapa Extrusions	X	X	X		X				5	20	10
Rosemont	Tecta America	X						X		5	20	10
Rosemont	WILO	X		X		X				5	20	10
Saint Anne	Power Solutions Plus	X					X	X		2	79	40
Savanna	MacLean-Fogg (4)		X			X				17	71	36
Savanna	MacLean-Fogg (4)		X			X				17	71	36
Schaumburg	20/10 Engineering Group			X			X			8	56	28
Schaumburg	All Tech Energy	X						X		8	56	28
Schaumburg	Cardno (3)	X	X				X			8	56	28
Schaumburg	Earle M. Jorgensen		X			X				8	56	28
Schaumburg	Hisco	X							X	8	56	28
Schaumburg	Nichicon America	X				X				8	56	28
Schaumburg	Schneider Electric (2)	X	X	X	X	X	X		X	8	56	28
Schaumburg	Zurich North America	X	X						X	8	56	28
Shabbona	NextEra Energy	X	X		X				X	16	90	45
Shelbyville	Shelby Electric Cooperative	X	X	X					X	15	102	51
Shorewood	Hawkeye Energy Solutions	X	X	X	X		X			14	97	49
Skokie	Flexterra	X				X				9	16	8
Somonauk	Independence Renewable Energy	X					X	X		16	90	45
South Beloit	Bloyer Well & Pump			X				X		16	69	35
South Beloit	Cutting Edge Water Jet Service	X	X	X		X				16	69	35
South Beloit	JSM Fabrication		X			X				16	69	35
South Berrington	The Generation Gap	X					X	X		8	52	26
South Elgin	Thermal Processing Solutions	X				X				6	65	33
South Holland	Armacell	X	X			X				2	29	15
South Holland	Green Innovation & Technology	X	X		X		X		X	2	29	15
Springfield	Ameresco (3)	X	X	X			X	X		13	96	48
Springfield	American Wind Energy Management		X				X	X		13	96	48
Springfield	API Solar	X			X		X	X		18	87	44
Springfield	Clean Energy Design Group	X					X	X		18	99	50
Springfield	Collins Plumbing Heating & Cooling (2)			X				X		13	87	44
Springfield	Crowe Horwath (3)	X							X	18	99	50
Springfield	Hanson Professional Services (7)	X	X				X			13	99	50
Springfield	HDR Engineering (5)	X	X		X		X			13	99	50
Springfield	Henson Robinson			X				X		18	99	50
Springfield	Johnson Controls (4)			X				X		18	99	50
Springfield	Patrick Engineering (3)	X	X				X	X		13	96	48
Springfield	Springfield Electric Supply	X					X			13	96	48
Springfield	The Habegger Corp. (4)			X					X	13	96	48
Springfield	WindSolarUSA	X	X				X			13	96	48
St. Charles	EnerSys				X	X				6	65	33
St. Charles	Midwest Underground Technologies (2)		X			X		X		6	49	25
Steeleville	Egyptian Electric (2)	X	X						X	12	116	58
Stelle	Stion	X							X	16	106	53
Stelle	Wilhelm Engineering	X	X				X	X	X	16	106	53
		CLEAN ENERGY SECTOR				COMPANY FUNCTION						

CITY	COMPANY NAME	CLEAN ENERGY SECTOR				COMPANY FUNCTION				US CONGRESSIONAL DISTRICT	IL HOUSE DISTRICT	IL SENATE DISTRICT
		 SOLAR	 WIND	 GEOTHERMAL	 STORAGE	 MANUFACTURER	 DEVELOPER/ DESIGNER	 CONTRACTOR/ INSTALLER	 PROFESSIONAL SERVICES/OTHER			
Swansea	StraightUp Solar (2)	X			X		X	X		12	113	57
Sycamore	Smith-Dahlquist			X				X		14	70	35
Sycamore	Tetham	X							X	14	70	35
Tamms	Unimin Corp. (5)			X					X	12	118	59
Thomasboro	Hovel Heating & Cooling			X				X		15	104	52
Thornton	Integrated Power Services		X				X	X		2	29	15
Tinley Park	Air-ease Heating & Cooling			X				X		1	38	19
Tinley Park	Panduit (2)	X	X			X		X		1	37	19
Tonica	Town & Country Services (2)			X				X		16	76	38
Troy Grove	Unimin Corp. (5)			X					X	16	76	38
Union	INTREN	X	X					X		14	63	32
Urbana	New Prairie Construction	X					X	X		13	103	52
Vandalia	Hunter Appliance Heating & Air			X				X		15	107	54
Vernon Hills	ZF Services		X					X		10	59	30
Villa Park	Ridgeway Precision Mechanical			X				X		8	46	23
Virden	Lewis Electric	X	X	X				X		13	95	48
Virden	Snell Plumbing and Heating			X				X		13	95	48
Washington	BTD Manufacturing	X	X			X				18	88	44
Washington	Hawk Energy Solutions	X					X			18	88	44
Waterloo	Monroe County Electric Cooperative	X		X					X	12	116	58
Waukegan	Coleman Cable	X	X			X				10	59	30
Waukegan	Deublin Company	X	X			X				10	59	30
Waukegan	Yaskawa America (2)	X				X				10	59	30
West Chicago	Great Lakes Geothermal			X				X		6	49	25
Western Springs	Planet Forward	X	X				X		X	3	47	24
Willowbrook	L&W Power	X							X	11	82	41
Wood Dale	Wiegel Tool Works	X				X				8	45	23
Woodstock	Wolcott Energy Group	X			X		X			14	63	32

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Environmental Law & Policy Center

The Environmental Law & Policy Center is the Midwest's leading public interest environmental legal advocacy and eco-business innovation organization. We develop and lead successful strategic advocacy campaigns to improve environmental quality and protect our natural resources. We are public interest environmental entrepreneurs who engage in creative business dealmaking with diverse interests to put into practice our belief that environmental progress and economic development can be achieved together. ELPC's multidisciplinary staff of talented and experienced public interest attorneys, environmental business specialists, public policy advocates and communications specialists brings a strong and effective combination of skills to solve environmental problems.

ELPC's vision embraces both smart, persuasive advocacy and sustainable development principles to win the most important environmental cases and create positive solutions to protect the environment. ELPC's teamwork approach uses legal, economic and public policy analysis, and communications advocacy tools to produce successes. ELPC's strategic advocacy and business dealmaking involves proposing solutions when we oppose threats to the Midwest environment. We say "yes" to better solutions; we don't just say "no."

ELPC was founded in 1993 and has achieved a strong track record of successes on national and regional clean energy development and pollution reduction, transportation and land use reform, including high-speed rail development, and natural resources protection issues. ELPC's creative public advocacy effectively links environmental progress and economic development together and improves the quality of life in our Midwestern communities.

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