

# Electric Vehicles

Why Illinois?



Governor JB Pritzker joined elected officials and the Lion Electric Company — a Canadian based manufacturer of all-electric medium and heavy-duty urban vehicles — to **announce a significant investment in Illinois**, with plans to build the company’s first-ever U.S. manufacturing facility and the largest plant of its kind in the country. A minimum of **\$70 million will be invested to build a new facility** dedicated to producing medium and heavy-duty electric vehicles (EVs) in the U.S. The facility is expected to come online in the second half of 2022, setting into motion annual production capacity of 20,000 zero-emission vehicles a year, and creating at least **745 jobs for Illinoisans**.

**#1 METRO FOR NEW AND EXPANDING COMPANIES**  
SITE SELECTION MAGAZINE

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**#1 MIDWEST STATE FOR BUSINESS CREATION**  
U.S. BUREAU OF LABOR STATISTICS

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**#3 U.S. LOCATION FOR CORPORATE EXPANSIONS/RELOCATIONS**  
SITE SELECTION MAGAZINE

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**#4 STATE FOR DIGITAL INFRASTRUCTURE**  
BUSINESS FACILITIES

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**5<sup>th</sup> HIGHEST GDP IN THE NATION**  
U.S. CENSUS BUREAU

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**18<sup>th</sup> LARGEST ECONOMY IN THE WORLD**  
BUREAU OF ECONOMIC ANALYSIS

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**38**  
Fortune 500  
Companies

**230**  
Companies on  
Inc. 5000 List

**61**  
S&P 1000  
Companies

**2000+**  
Foreign-Owned  
Businesses



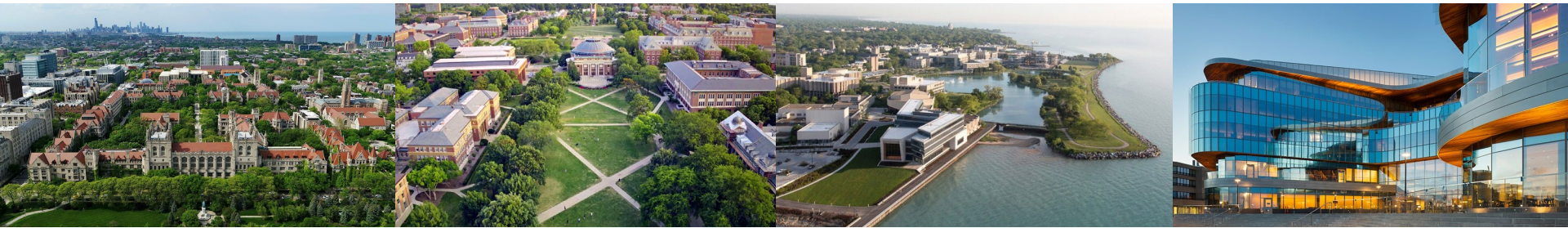
abbvie




**43% OF ILLINOISANS HAVE AN ASSOCIATES DEGREE OR HIGHER**

**254 HIGHER EDUCATION INSTITUTIONS STATEWIDE**

- 15<sup>th</sup> best University in the *world* - **University of Chicago**
- 2 Top 5 Business Schools in U.S. - **Kellogg & Booth Schools of Business**
- Top 5 Computer Science Program Nationally - **University of Illinois**
- 2 Top 5 Materials Engineering Programs in U.S. - **University of Illinois & Northwestern**
- Top 10 Supply Chain Mgmt. Program – **Governors State**
- Top 5 percent in terms of research expenditure – **Southern Illinois University**



**UNIVERSITY OF ILLINOIS  
GRADUATES MORE ENGINEERS EACH YEAR THAN  
MIT, STANFORD & CALTECH  
COMBINED**



FROM **WORLD-RENOWNED RESEARCH UNIVERSITIES**, TO AN **EXPANSIVE BUSINESS COMMUNITY**, TO A **VIBRANT STARTUP ECOSYSTEM**, ILLINOIS IS PROPELLING THE NATION FORWARD THROUGH NEW IDEAS.

ILLINOIS COMPANIES RAISED \$7.1B IN FUNDING OVER 397 DEALS IN 2021 ALONE

CHICAGO HAS THE HIGHEST VC RETURNS OUT OF ANY US STARTUP HUB

200% INCREASE IN STARTUP COMPANIES LAUNCHING FROM ILLINOIS UNIVERSITIES OVER THE PAST 5 YEARS

## AIR



Within 4-hour flight of all major North American destinations and the most overseas nonstop flights

## BROADBAND



Virtually every major data network in the world intersects in Chicago

## WATER



2 major inland ports and 19 port districts with more than 1K miles of navigable waterways

## RAIL



Only state with all 7 Class 1 Railroads

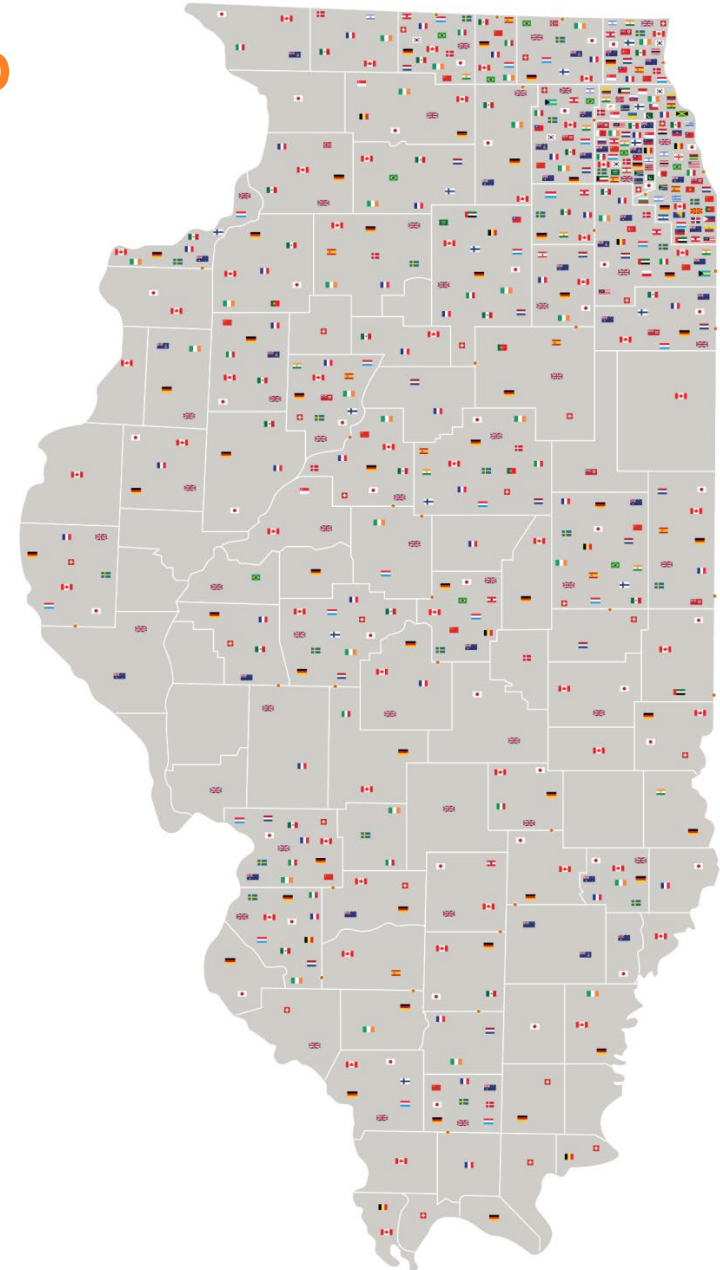
## ROAD



3rd largest interstate highway system in the U.S.

## HOME TO 2,034 FOREIGN OWNED COMPANIES

- More than \$112B in Foreign Direct Investment (FDI)
- International companies **EMPLOY 380K ILLINOISANS**
- **CHICAGO METRO RANKED #1** for FDI by Site Selection Magazine
- Robust international business resources including **EIGHT FOREIGN TRADE ZONES AND 29 SUBZONES**
- Illinois Office of Trade and Investment has **SIX REGIONAL INTERNATIONAL OFFICES** in Belgium, Canada, China, Israel, Japan and Mexico





**MANUFACTURING  
ACCOUNTS FOR 12.7% OF  
THE ILLINOIS GDP**

**4<sup>TH</sup> HIGHEST  
MANUFACTURING  
GRP IN THE U.S.**



**560,000+  
EMPLOYED IN  
MANUFACTURING**

**8.9% OF THE STATE'S  
WORKFORCE IS  
EMPLOYED IN  
MANUFACTURING**

**1<sup>st</sup>**

national lab  
Argonne, runs  
the **Joint Center  
for Energy  
Storage  
Research.**

**2<sup>nd</sup>**

in nation in  
number of  
**battery  
manufacturer  
locations**

**3<sup>rd</sup>**

in motor vehicle  
**electrical and electronic  
equipment**  
manufacturing locations

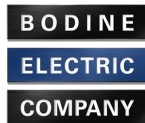
**4<sup>th</sup>**

in U.S. for number of  
locations that  
manufacture **non-  
battery EV-unique  
components**

**5<sup>th</sup>**

in number of  
**motor and  
generator**  
manufacturing  
locations

## BATTERY AND COMPONENT MANUFACTURERS



# AUTOMOTIVE + BATTERY HUB

**+816**

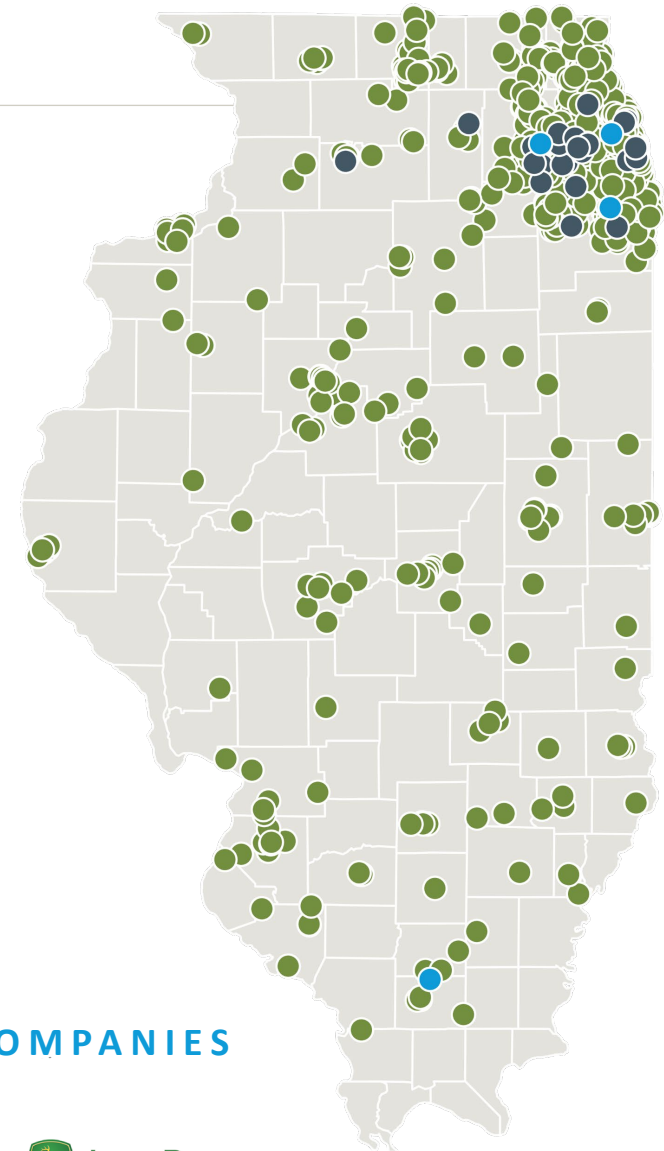
companies in the automotive industry



**+38**

battery cell & automotive battery manufacturers

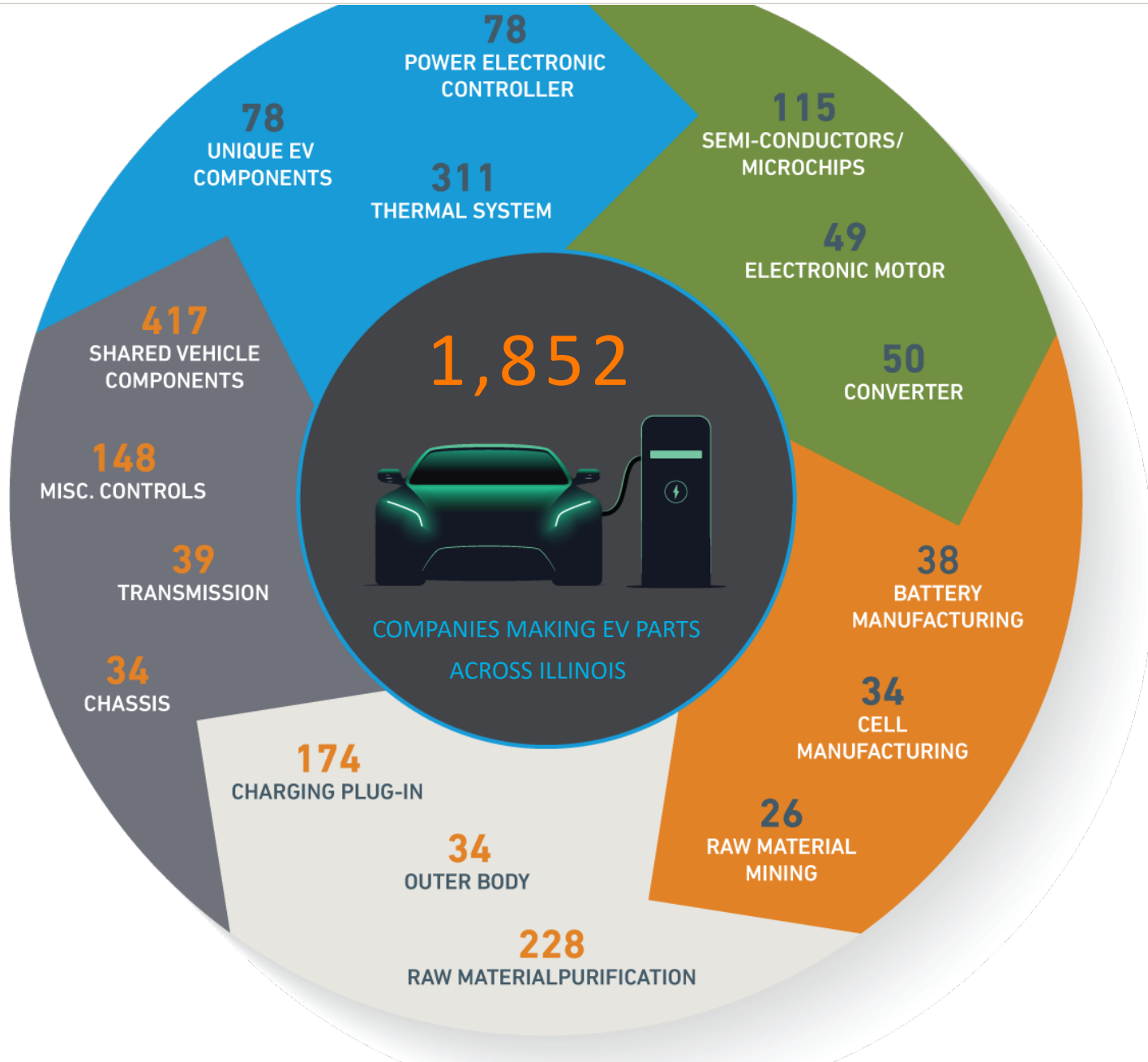
- **4<sup>th</sup> LARGEST** Auto Employment Base in the U.S.
- **TWO** of the US' top three automakers: **FORD & STELLANTIS**
  - Ford's Torrence Ave. facility employs 5800, produces Explorer, Aviator, Police Interceptors
  - Stellantis (fka Fiat Chrysler) Belvedere facility; new home to Jeep's flagship Cherokee



## LEADING AUTOMOTIVE AND HEAVY MACHINERY COMPANIES



- Battery Cell Manufacturers
- Automotive Battery Manufacturers
- Auto Industry Companies



Illinois is committed to a clean energy future. The state has the **6TH HIGHEST ENERGY SOURCES FROM CLEAN/CARBON-FREE GENERATION**, and businesses have access to **100% RENEWABLES** through the state's **COMPETITIVE ENERGY MARKET**

## ELECTRIC

### Affordability

- Industrial/commercial electric prices **25% below the national average** - among the lowest prices in Midwest, **average prices have decreased 2%** over last 10 years
- **2nd lowest increase in average electrical prices** since 1997 at just 24%, well below the level of inflation

### Reliability

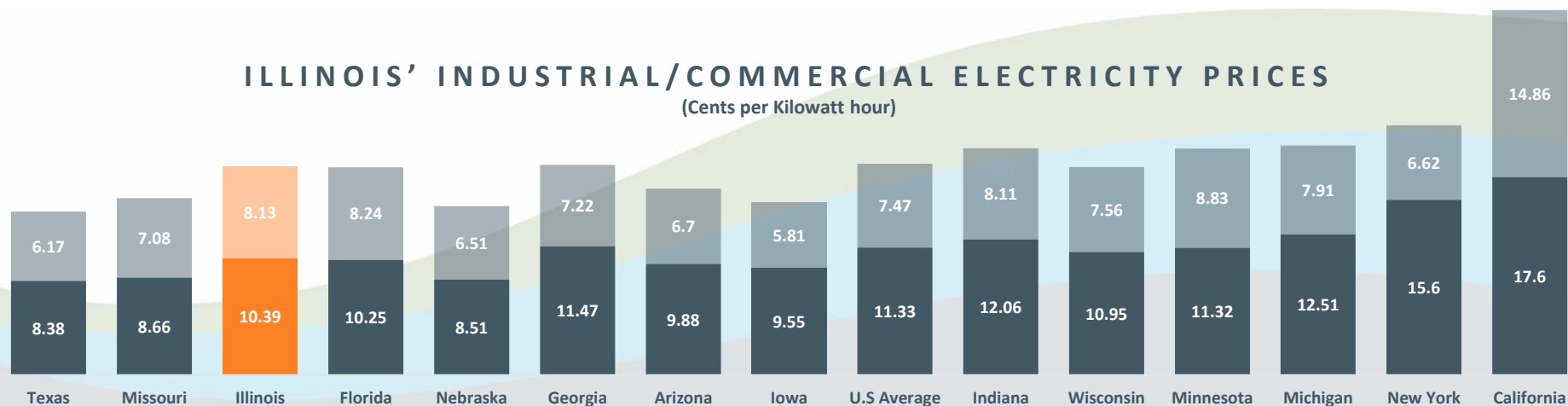
- **#2 electric grid in the U.S.** based on performance, policies and customer program (GridWise Alliance)

### Efficiency

- One of most extensive energy efficiency program portfolios in nation saving in costs **eliminating over 42M tons of CO2 emissions**
- Illinois is committed to **acquiring 25% of its retail electricity from renewable sources by 2025 and 50% by 2040**

## ILLINOIS' INDUSTRIAL/COMMERCIAL ELECTRICITY PRICES

(Cents per Kilowatt hour)



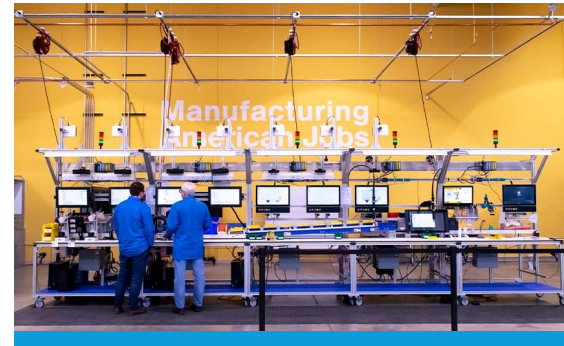
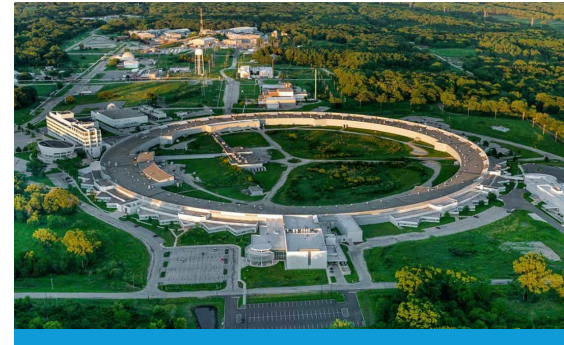
■ Commercial ■ Industrial

## RESEARCH AND DEVELOPMENT

- **ARGONNE NATIONAL LABORATORY** - \$1.2B funding to advance U.S. battery manufacturing and EV sectors
- **MXD** - creating the tools, software and expertise to equip U.S. factories to build more efficiently, less expensively
- **SOUTHERN ILLINOIS UNIVERSITY AUTOMOTIVE TECHNOLOGY PROGRAM** recognized globally

## ACCELERATORS, INCUBATORS AND INNOVATION

- Among **top 15% of states** in manufacturing R&D
- Illinois Universities spent **\$271M in engineering research**
- **4<sup>th</sup> most patents** in supply electric power to auxiliary equipment of vehicles
- Evergreen Climate Innovations (formerly Clean Energy Trust) is **advancing climate tech in the Midwest**



## ELITE AUTOMOTIVE LABOR FORCE

- **42,493 WORKERS** employed in automotive industry
- **1,009,975 WORKERS WITH SKILLS** for jobs in the automotive industry
- Concentration of automotive-qualified workers **14% ABOVE NATIONAL AVERAGE**
- Ranked **6<sup>TH</sup> NATIONALLY** in total labor force
- Robust community college system:
  - 48 institutions
  - **OVER 233K STUDENTS** (fall 2020 school year)

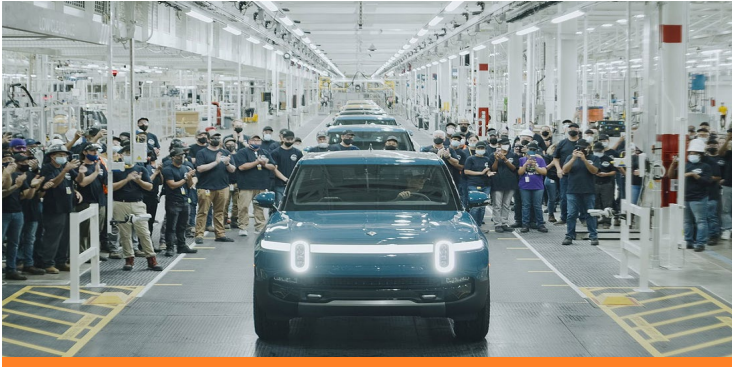
**STATE INVESTED \$15M** into Manufacturing Training Academies



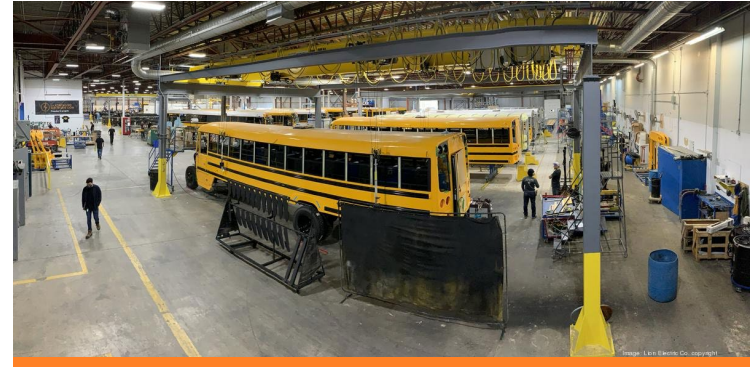
### Heartland Community College Electric Vehicle-Energy Storage

First-of-its-kind EV manufacturing training program made possible by partnership with electric vehicle manufacturer, Rivian

**Southwestern Illinois College Advanced Manufacturing Center** Manufacturing education hub in Belleville, expanding upon school's successful manufacturing training facilities



Employs more than 3,000 people at its Normal, IL plant where it manufactures its electric trucks and SUVs; raised nearly \$12B in its IPO



Investing \$70M in the largest all-electric commercial vehicle production plant in the U.S. in Joliet



Chose Libertyville for its U.S. headquarters, where it produces 200 advanced chargers per week



Utilizing hydrogen fuel cell technology, the Bolingbrook facility will produce 12,000 FCEV trucks per year



Experience in **AUTO MANUFACTURING, INNOVATION** and **COMMITMENT TO THE FUTURE** make Illinois an ideal place for EV companies to **EXPAND** and **THRIVE**.

GOVERNMENT SUPPORT to achieve 100% clean energy, **INCENTIVES** for EV development, and programs such as **DIRECT TO CONSUMER SALES**

**PROVEN EV  
SUCCESSSES**

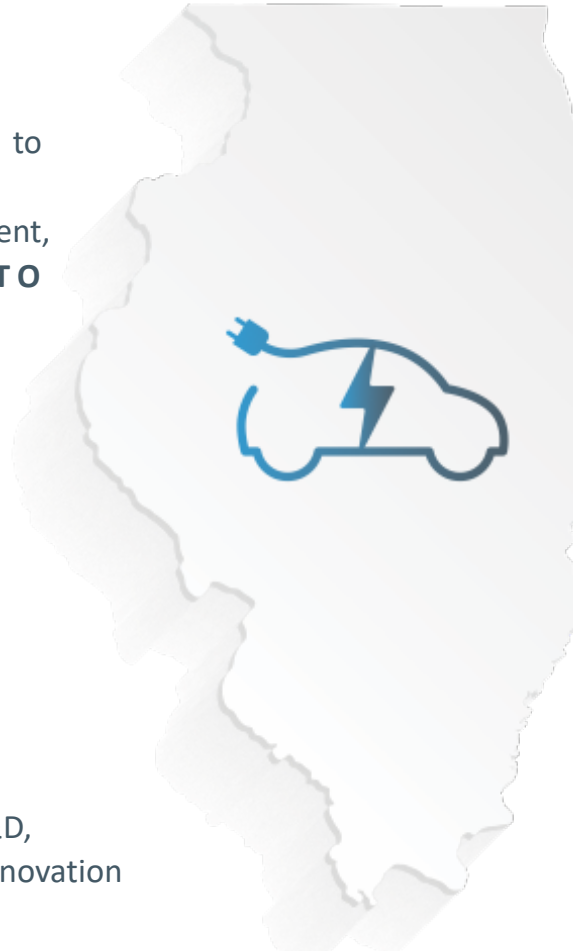
**ECOSYSTEM** including R&D, accelerators, incubators and innovation

**UNMATCHED  
INFRASTRUCTURE**

**ROBUST AUTOMOTIVE & HEAVY MACHINERY INDUSTRY** supply chain specializing in battery manufacturing, unique EV and shared vehicle components

**EV WORKFORCE OF  
THE FUTURE**

**RENEWABLE ENERGY** that is reliable and affordable



# THANK YOU

DAN SEALS

INTERSECT ILLINOIS

[www.intersectillinois.org](http://www.intersectillinois.org)



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