WISCONSIN
ECONOMIC DEVELOPMENT

ENERGY, POWER, AND CONTROLS EXCELLENCE

Wisconsin is leading the way toward an efficient and sustainable future.

LOOK FORWARD ›

FACTS AND FIGURES ABOUT WISCONSIN'S ENERGY, POWER, AND CONTROLS INDUSTRY

Nearly

8,000

energy, power, and controls companies

122,000+

energy, power, and controls jobs

Access to a talent pool of

66,000+

engineering graduates from across the Midwest per year

826MW

combined net summer capacity of onshore

WIND POWER GENERATORS

241 HYDROPOWER GENERATORS

across 66 facilities with a cumulative net summer capacity of **410MW**

2.11GW

combined net summer capacity of

SOLAR VOLTAIC GENERATORS

Wisconsin is home to **one of the nation's first** commercial-scale

CO_2 BATTERY PROJECTS

marking a significant milestone for **long-duration energy storage**

Home to the

LARGEST GEOTHERMAL BUILDING CAMPUS

in the U.S. (Epic Systems)

TWO 345KV REGIONAL LINES

approved in 2025-26 with at least **two more under review** to further expand the state's transmission capacity

BUILT FOR INNOVATION

Nearly

8,000

Wisconsin energy, power, and controls companies

Lightcast 2025 Q4 Dataset

122,000+

Wisconsin energy, power, and controls jobs

Lightcast 2025 Q4 Dataset

Wisconsin stands at the forefront of the global energy, power, and controls ecosystem—combining market-leading industrial capabilities with advanced academic research and highly specialized institutions. The state is driving the development of breakthrough ideas, advanced applications, and energy-efficient technologies that help power the world.

Wisconsin has also emerged as a high-potential market, with strong projected growth driven by its energy expertise, infrastructure, and innovation capacity. Electrical machinery and control manufacturing is among Wisconsin's fastest-growing and most competitive industrial sectors.

Companies across this industry are deeply committed to addressing global energy challenges, continually adapting to evolving market demands and emerging opportunities. In fact, across this essential and rapidly transforming industry, it's difficult to find an electron anywhere in the world that doesn't pass through technology made in Wisconsin.

ENERGY — Grid modernization, innovating and building next-generation and more compact microgrids that are more reliable and affordable, biofuels, nuclear fusion and fission, renewables and new battery chemistry systems to improve energy storage and safety, digital twins for industrial efficiencies, increasing distribution efficiencies that meet the needs of data centers, driven by artificial intelligence (AI)

POWER — Transmission, distribution, monitoring, efficiency, and quality, including improved insulators and dielectrics for higher energy and more compact applications

CONTROLS — Power controls and sensors; automation and systems intelligence for industrial and building applications; energy management; SMART grid/ distributed energy, wind, and solar control; energy cybersecurity and resiliency

WISCONSIN'S LEADERS IN ENERGY, POWER, AND CONTROLS

Alliant Energy

CLARIOS

EATON

GENERAC

Johnson Controls

Ingeteam

Rockwell Automation

Xcel Energy®

INDUSTRY STRONG. TECHNOLOGY SMART. FUTURE READY.

Wisconsin is home to **one of the nation's first** commercial-scale

CO_2 BATTERY PROJECTS

marking a significant milestone for **long-duration energy storage**

In Wisconsin, we are defined by our collaborative approach. Centers and institutes facilitate partnerships between academia and industry, often with federal funding benefits, while advancing innovation and developing next-generation talent. Regardless of your company's niche in the energy, power, and controls ecosystem, we probably have you covered.

ENERGY AND ENERGY STORAGE

Wisconsin Energy Institute is the home of catalytic research, training, and technology, with more than 185 faculty members working across disciplines to solve large-scale energy challenges. (UW-Madison)

The **Center for Sustainable Electrical Energy Systems** is developing technologies to make electric power systems more sustainable, cost-effective, and secure. Researchers are developing power-dense and efficient power electronic converter packages, making systems lighter and more efficient. Facilities also include an electromagnetic interference (EMI) chamber, available for industrial testing. (UW-Milwaukee)

The **Energy Advancement Center** hosts one of the few dry labs for energy storage research in a North American university. This is one of only a handful of labs in the world that addresses a full product cycle—material synthesis, proof-of-concept, fundamental electrochemical and material studies, and bench-top manual fabrication of vehicle batteries, through pilot production. (UW-Milwaukee)

The **U.S. Department of Energy Industrial Training Assessment Center** provides free evaluations to manufacturers and wastewater treatment plants to help them reduce waste, save energy, and reduce carbon emissions. To date the center has saved those businesses roughly 20% of their energy bills. (UW-Milwaukee)

The **Great Lakes Bioenergy Research Center** is one of four bioenergy research centers of excellence established by the U.S. Department of Energy. It researches and develops efficient, sustainable biofuels and bioproducts made from dedicated energy products grown on marginal land. (UW-Madison)

The largest **wind tunnel** in Wisconsin is used to test wind turbine rotor blades as researchers work to make the turbines more efficient, quieter and longer-lasting. The facility is widely used for aerodynamics, to measure airflow over buildings and many other applications. The team also uses biomimicry in this work, using the shape of bird wings as inspiration for the shape of the blades. (UW-Milwaukee)

$1.9 BILLION

annual research spending in FY24 at UW-Madison alone

U.S. NCES Higher Education Research and Development Survey

TWO 345KV REGIONAL LINES

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Public Service Commission of Wisconsin

POWER

The **Power Systems Engineering Research Center** is a hotbed of electrical transmission and distribution research. (UW-Madison)

With more than 60 corporate sponsors, the **Wisconsin Electric Machines and Power Consortium's** researchers work together to research and develop the newest technologies and techniques in electric machines, power electronics, actuators, sensors, drives, motion control, and drive applications. (UW-Madison)

With the presence of companies such as Realta Fusion, Wisconsin is leading the way to develop **fusion technology** for an abundant source of clean energy--with the presence of UW-Madison and the entire UW system as a key resource for startups working on related technologies.

CONTROLS

The **Grid-connected Advanced Power Electronics Systems** (a National Science Foundation Industry/University Cooperative Research Center) has a mission to accelerate the adoption and insertion of power electronics into the electric grid, to improve system stability, flexibility, controllability, robustness, and economy. Member universities and companies span the U.S. (UW-Milwaukee)

The **Connected Systems Institute**, chosen to host the Microsoft AI Co-innovation Lab focused on manufacturing, develops domain specialists through education, state-of-the-art lab and collaborative research facilities. These include an advanced manufacturing testbed, digital twin technologies, and industrial machine learning and networking. (UW-Milwaukee)

The **Trustworthy Cyber-Physical Systems and Infrastructures Lab** addresses the issues related to the emerging fields of cyber-physical systems applied to smart grid, microgrid, energy-efficient buildings, water and natural gas distribution networks, intelligent and sustainable transportation, health care systems and smart manufacturing. (UW-Milwaukee)

Federal agencies funding academic energy, power, and controls research in Wisconsin include:

- The U.S. Department of Energy
- The National Science Foundation
- The U.S. Department of Defense
- The U.S. Navy (Office of Naval Research)
- The U.S. Air Force
- The U.S. Department of Agriculture
- The Advanced Research Projects Agency-Energy (ARPA-E)
- STTR/SBIR grants from these agencies

ACCELERATING ENERGY GROWTH WITH NEW SOURCES

826MW
combined net summer capacity of onshore
WIND POWER GENERATORS[1]

241 HYDROPOWER GENERATORS
across 66 facilities with a cumulative net summer capacity of **410MW**[1]

2.11GW
combined net summer capacity of
SOLAR VOLTAIC GENERATORS[1]

800+
publicly accessible charging stations with **2,000+ CHARGING PORTS** for electric vehicles[2]

1,300+
buildings with green certifications[3]

Home to the
LARGEST GEOTHERMAL BUILDING CAMPUS
in the U.S. (Epic Systems)[4]

Sources: (1) U.S. Energy Information Administration; (2) U.S. Department of Energy Alternative Fuel Data Center; (3) Green Building Information Gateway; (4) U.S. Department of Energy

ADVANCING KNOWLEDGE

4,500+

engineering degrees and certificates awarded in 2024

U.S. NCES IPEDS

66,000+

engineering graduates from across the Midwest per year

U.S. NCES IPEDS

Wisconsin is known for its industrious, Midwestern work ethic, and its educational system is universally admired. With a high school graduation rate consistently ranked among the top in the nation, Wisconsin offers a steady pipeline of talent to keep our state at the forefront of innovation and economic growth.

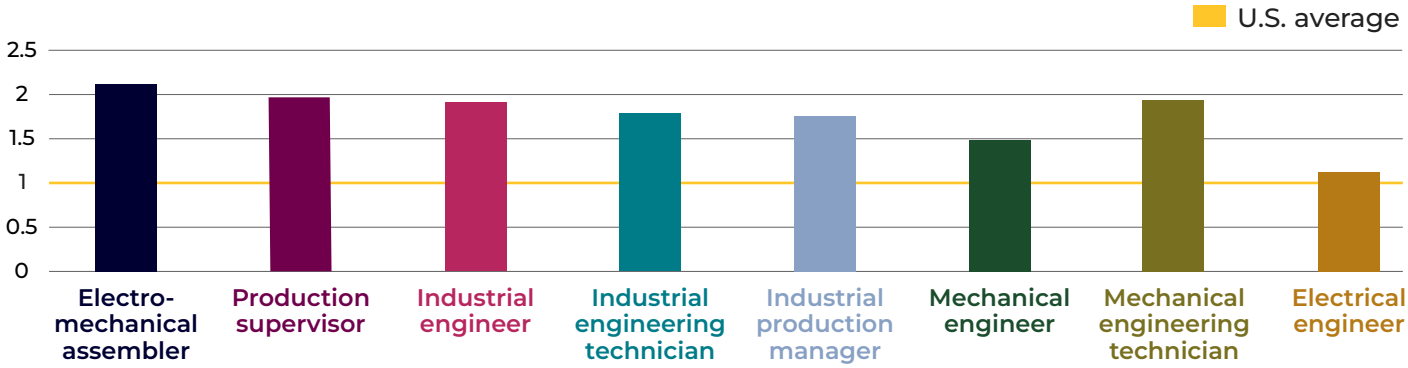
The **Universities of Wisconsin** are regularly cited as leaders in terms of quality and reach, with established leadership in research and talent development. And as the **first state in the nation to develop a technical college system,** Wisconsin has more than 100 years' experience training its workforce to fulfill ever-changing industry demands.

Our 16 technical colleges and 24 universities, with a combined total of 93 campus locations around the state, prepare students to make strong contributions to Wisconsin's economy—and the leaders who hire them.

In Wisconsin, our universities lead in research and technology commercialization, supporting partnerships, companies, and policymakers to develop new, innovative products that fill market needs. For example:

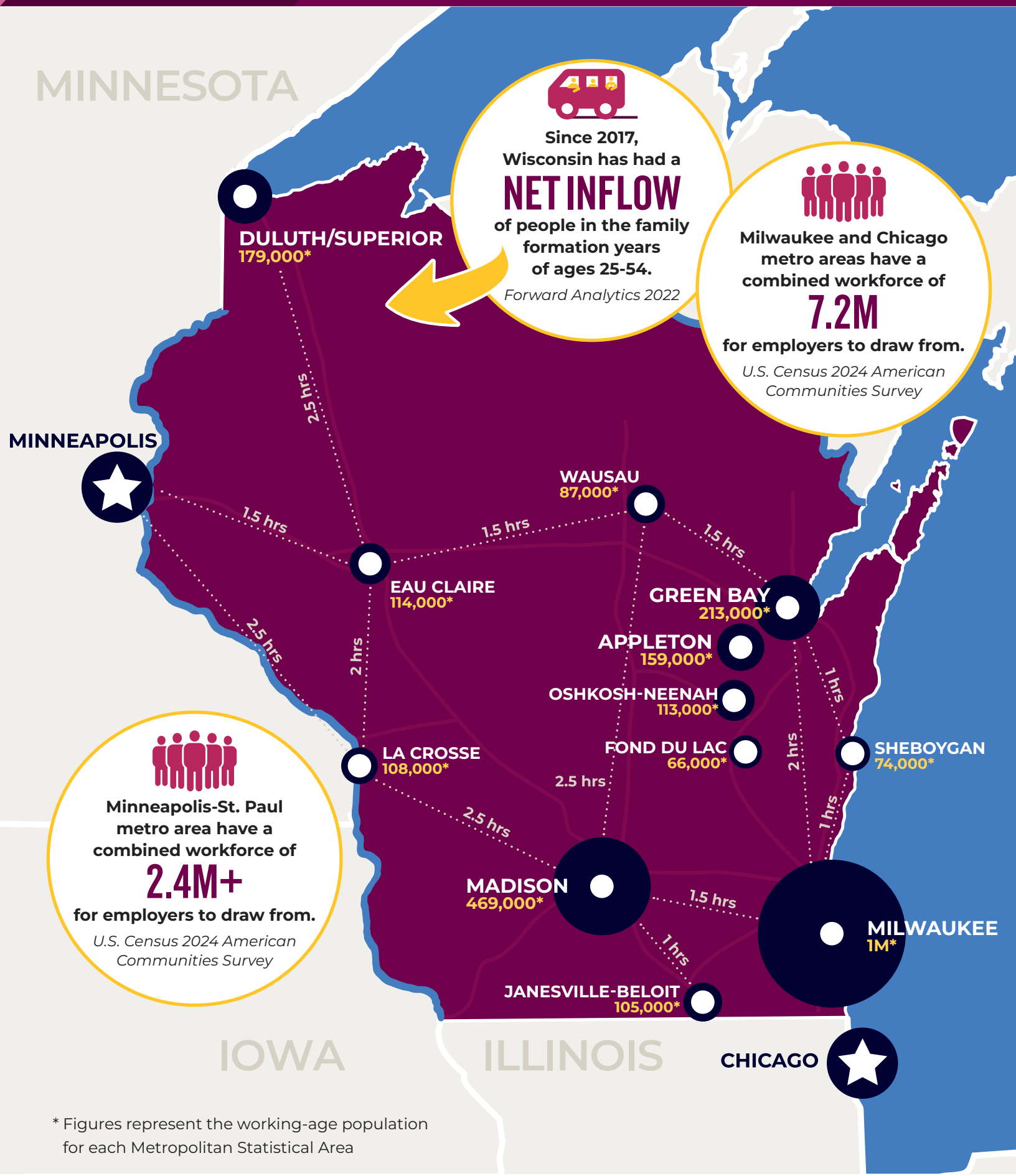
- UW-Madison and UW-Milwaukee are elite **Tier 1 research universities**, among the top 4% in the nation.[1]
- UW-Madison ranks in the top 3% of U.S. universities for **engineering research expenditures** and near the top of global rankings.[2]
- Ranked in the top 10 nationally for **civil engineering** as well as its undergraduate engineering program, the Milwaukee School of Engineering has always engaged leaders of business and industry.[3]

EMPLOYMENT CONCENTRATION



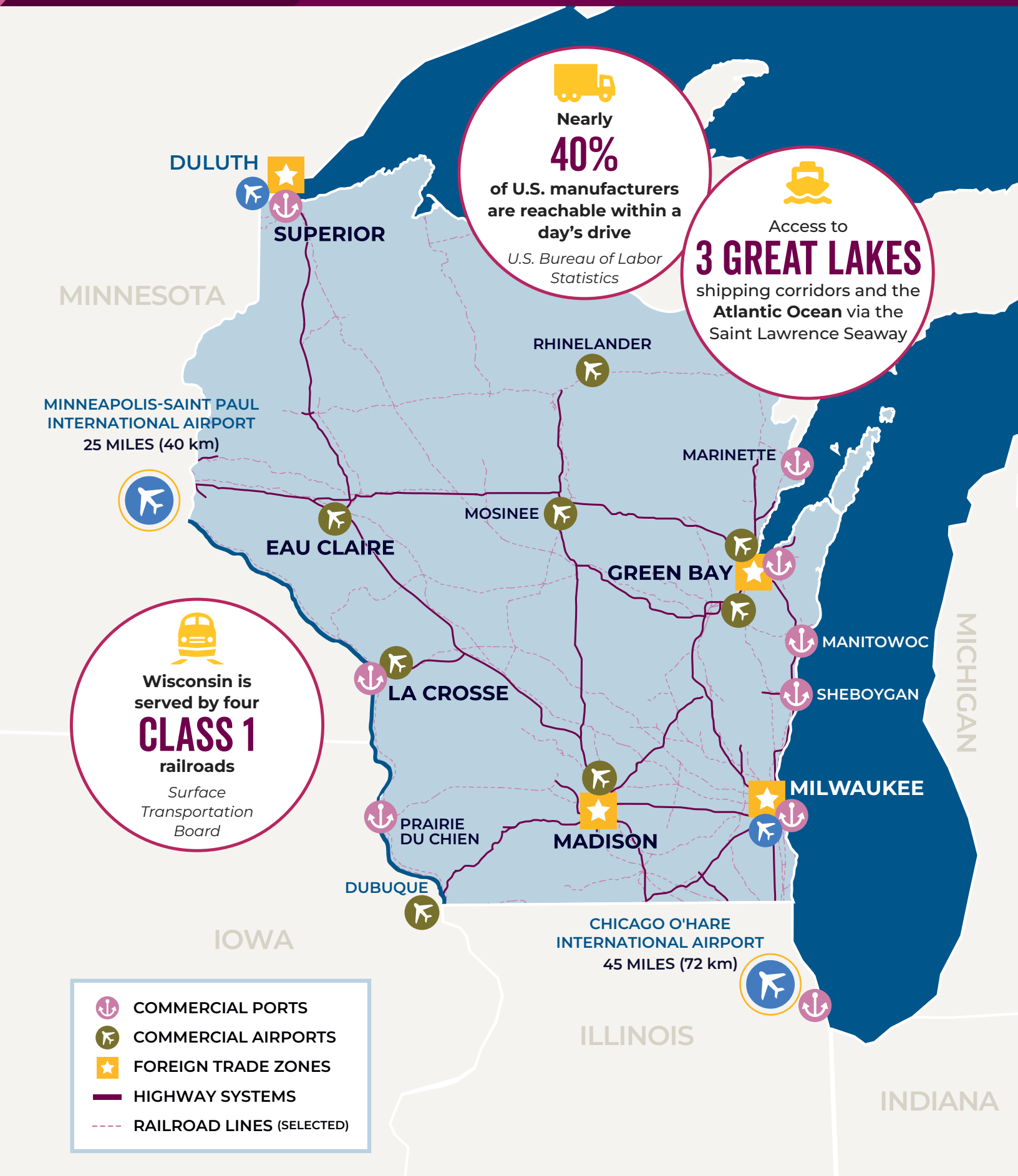
Lightcast 2025 Q4 Dataset

THE WORKFORCE YOU NEED



* Figures represent the working-age population for each Metropolitan Statistical Area

WELL CONNECTED AND CENTRALLY LOCATED



EASY ACCESS TO GET YOUR GOODS TO MARKET

Wisconsin isn't a single port economy—it has a distributed system across Lake Michigan and Lake Superior, offering access to three different Great Lakes shipping corridors and integration with Class I rail and interstate trucking, creating a multi-port Great Lakes logistics platform.

PORT OF MILWAUKEE:

Fifth-largest port in the Midwest and the only Lake Michigan port approved to serve the Mississippi River inland waterway system with direct barge access to the Illinois River; equipped to handle heavy machinery exports and bulk goods in liquid and solid form with storage available; includes a state-of-the-art agriculture maritime export facility

PORT OF GREEN BAY:

Provides the shortest and most direct route for shipments between the Midwest U.S. and the rest of the world—including overnight delivery; equipped to handle dry bulk commodities, liquids, and oversized cargo

PORT OF DULUTH-SUPERIOR:

The largest and busiest port of the Great Lakes, handling 35 million tons annually; connects to the U.S. East and Gulf coasts via the St. Lawrence Seaway and the Mississippi River, with rail connections to the West Coast

DISCOVER THE WISCONSIN ADVANTAGE

0.4% EFFECTIVE TAX RATE

on income from manufacturing activities

Wis. Stat. § 71.07(5n)

#4 BEST STATE

to live in

WalletHub, 2026

#1 IN THE U.S.

for manufacturing employment per capita

Lightcast 2025 Q4 Dataset

VERY LOW RISK

of natural disaster

WEDC analysis of FEMA data

EXCELLENT CREDIT RATING

and fully funded state pension plan, leading to **low risk of tax increases**

AA1 Moody's
AA Fitch Ratings

LOW TAX

low-regulation, business-welcoming environment

NEARLY 85%

of Wisconsin's borders are water

WEDC analysis using a Wisconsin Department of Natural Resources map

Wisconsin borders the Great Lakes, which together contain

1/5 OF THE WORLD'S FRESH WATER

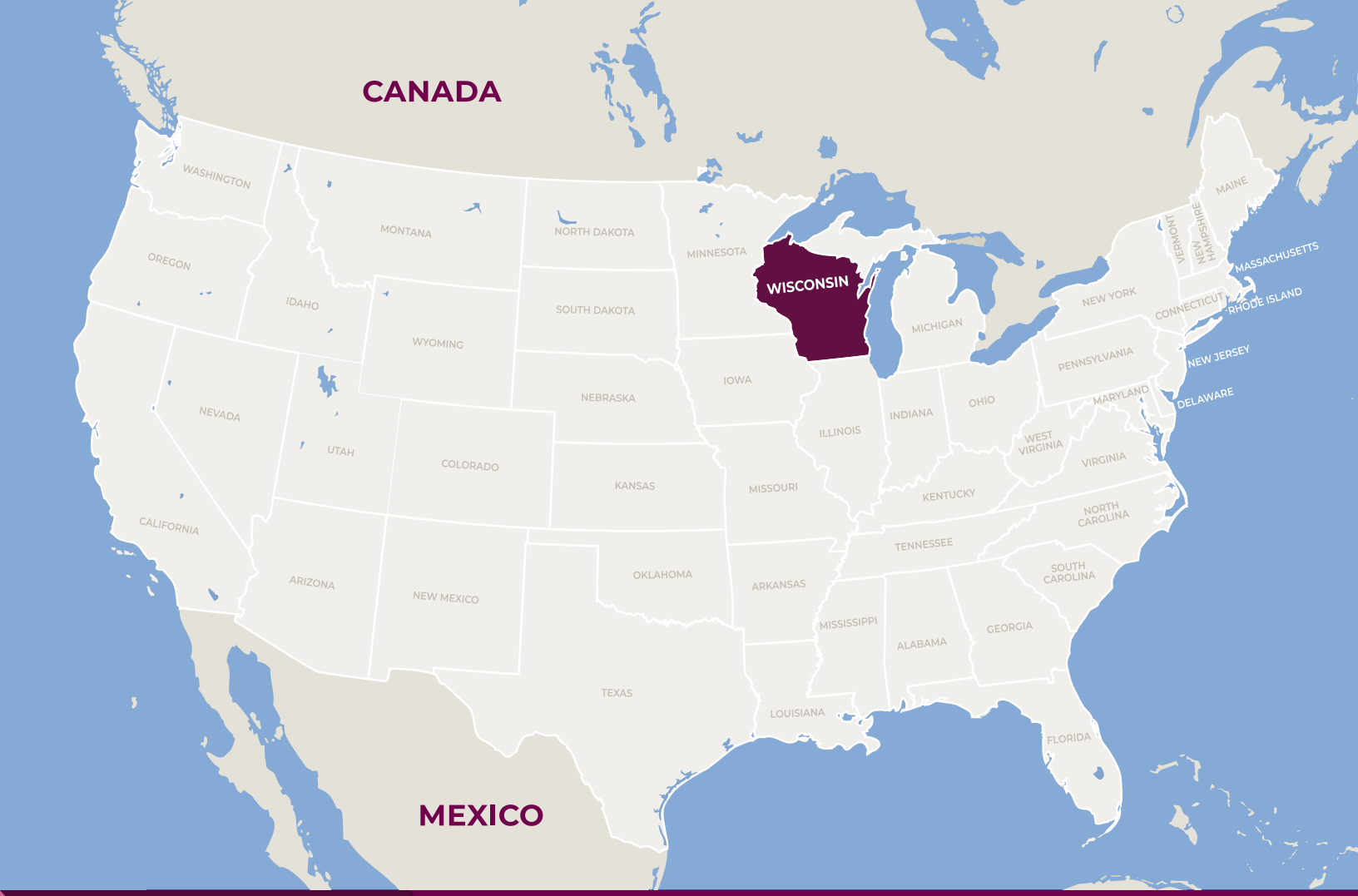
Wisconsin Water Facts, Wisconsin Water Library, UW-Madison

Wisconsin has an estimated

1.2 QUADRILLION GALLONS

of groundwater

Wisconsin Water Facts, Wisconsin Water Library, UW-Madison



DISCOVER THE WISCONSIN ADVANTAGE

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