



**Economic Development
Administration University
Center**

Promoting green economic development in the Chicago region

**Nathalie P. Voorhees Center
for Neighborhood and
Community Improvement**

**EDA University Center University Showcase
July 9-10, 2019 Indianapolis**



AGENDA

Looking back:

- Brownfield redevelopment

Pivoting for COVID-19:

- Food service to food production

Looking ahead:

- Economic and racial equity

Complement. Co-Create. Catalyze.

Promote green economic development in the Chicago region through strategic community driven services that expand forward looking eco-friendly businesses and develop a highly skilled workforce talent pool that is prepared for these opportunities

Ecosystem Assessment

Deep dive

Workforce

Case studies

Site Inventory

Tools

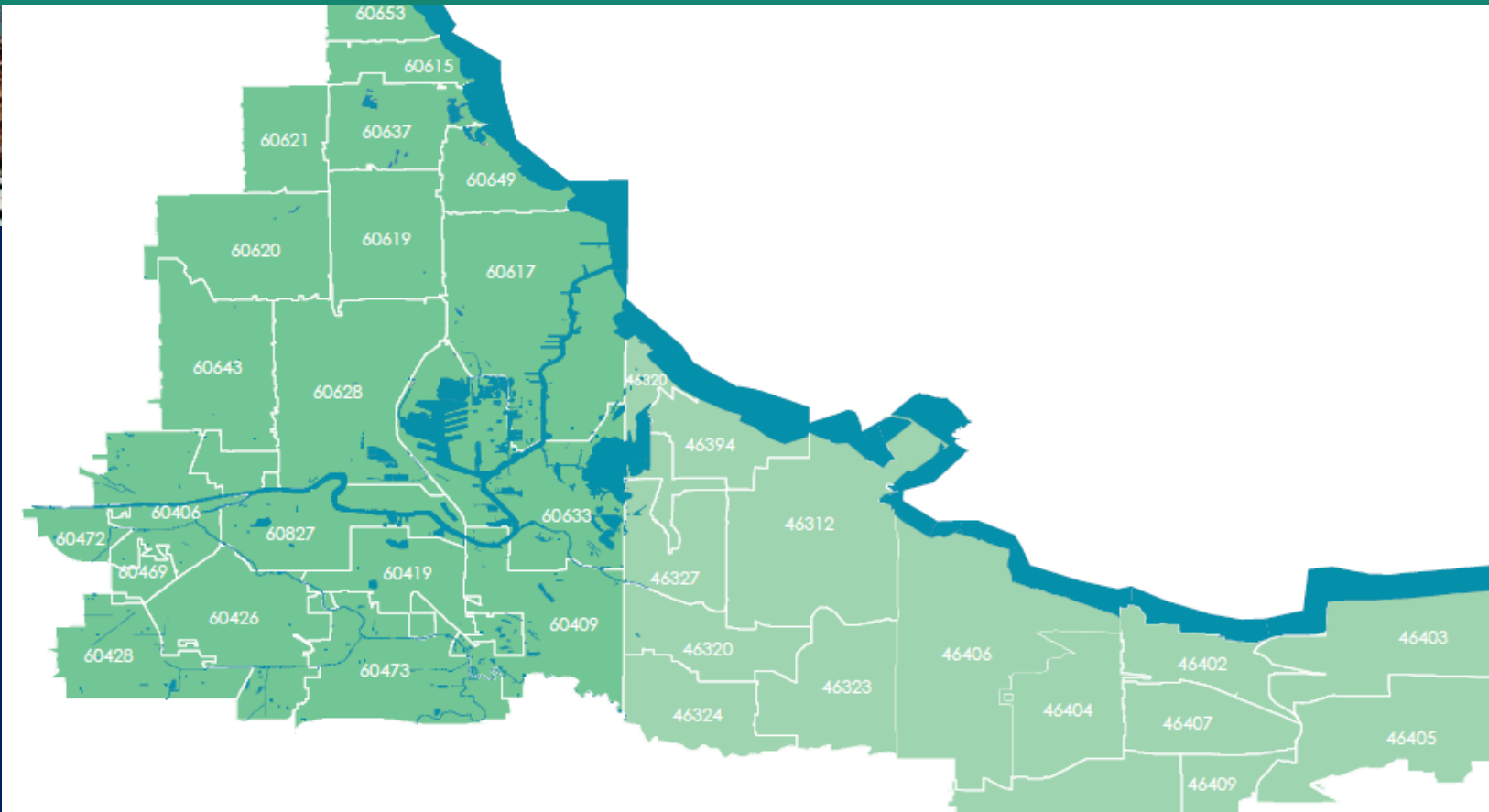
Stakeholders

UIC

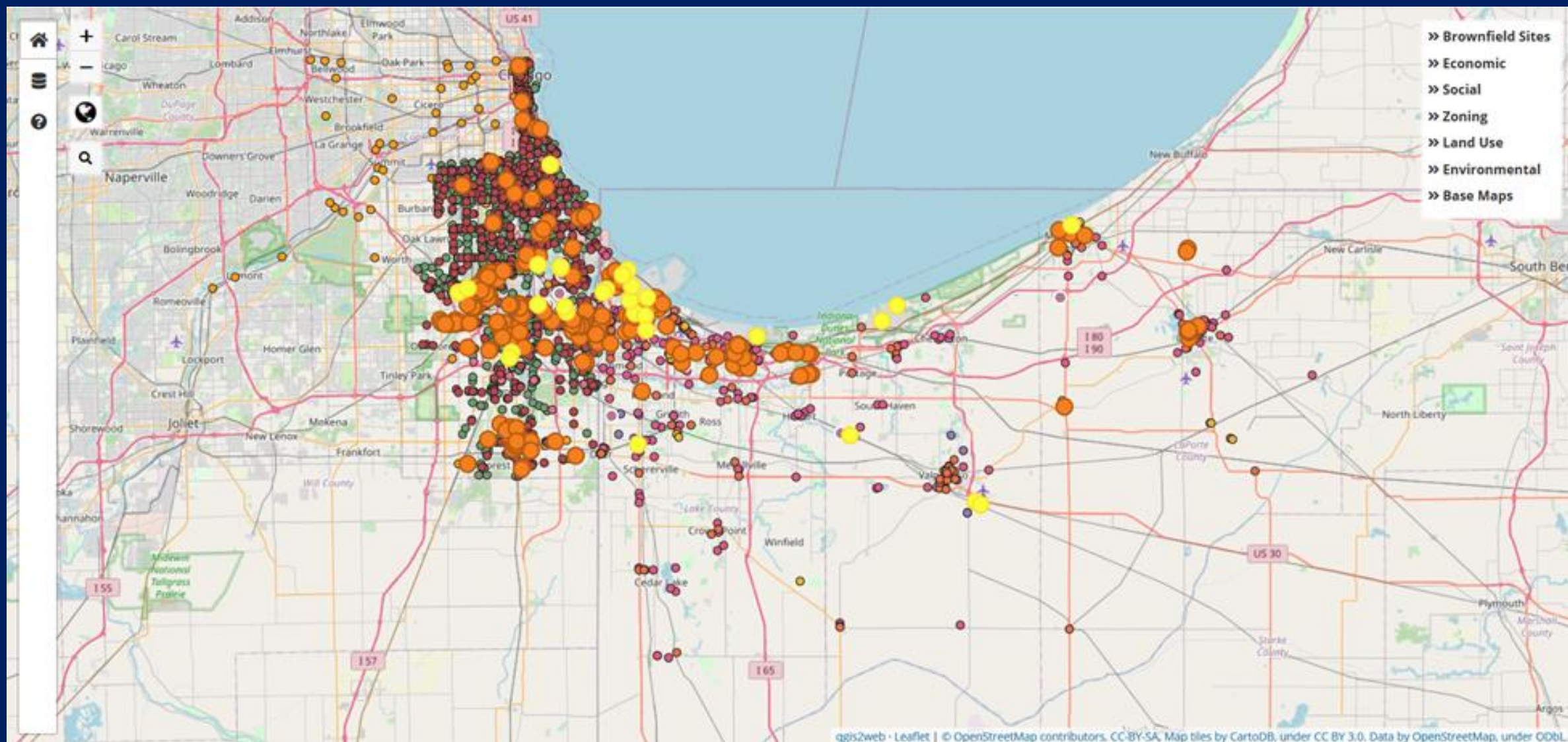
**LOOKING BACK:
BROWNFIELD
REDEVELOPMENT TOOL**



BROWNFIELD REDEVELOPMENT



Brownfield Mapping Tool Demonstration



**COVID 19 PIVOT:
FROM FOOD SERVICE TO
PRODUCTION**



FOOD PRODUCTION & DISTRIBUTION



THE HATCHERY
WHERE FOOD BUSINESSES GROW

From service to production

- Baking
- Health care
- Prepared meals
- Grocery



From service to production

Occupation Profile

Occupation	IL ..	Education	SKILLS	Abilities
Customer Service Representative			Judgment a.. Monitoring Negotiation Reading Co.. Service Ori.. Social Perc.. Speaking Time Mana..	Scanning Problem Se.. Manual Dex.. Flexibility Informatio.. Time Mana.. Perceptual ..
Food Preparation Workers	\$24,220 Annually	45% High School Diploma ..	Active Liste.. Social Perc.. Speaking	Arm-Hand S.. Informatio.. Manual Dex..
	\$33,510 Annually	75% High School Diploma or Equivalent	Active Liste.. Coordination Critical Thi.. Monitoring Reading Co.. Social Perc.. Speaking Time Mana..	Control Pre.. Written Co.. Deductive R.. Problem Se.. Flexibility Manual Dex.. Strength
Laborers and Freight, Stock, and Material Movers, Hand	26,220 Annually	70% High School Diploma or Equivalent	Active Liste.. Complex Pr.. Critical Thi.. Operation ..	Flexibility Informatio.. Written Co.. Strength
Stock Clerks				

Skills

Skills	Occupati..
Active Listening	●
Social Perceptiveness	●
Speaking	●

Certificates

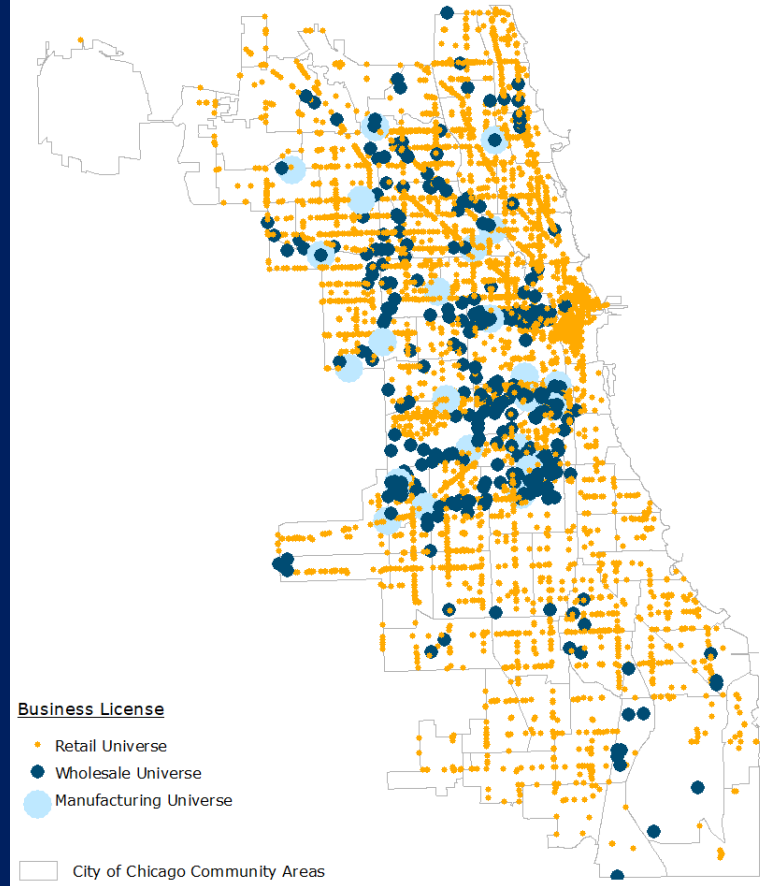
Occupation	Certificates
Food Produc..	Food Safety Han..

Tech Skills

Technological Skills	Occupati..
Culinary software ser..	○
Data base managemen..	○
Microsoft Excel	○

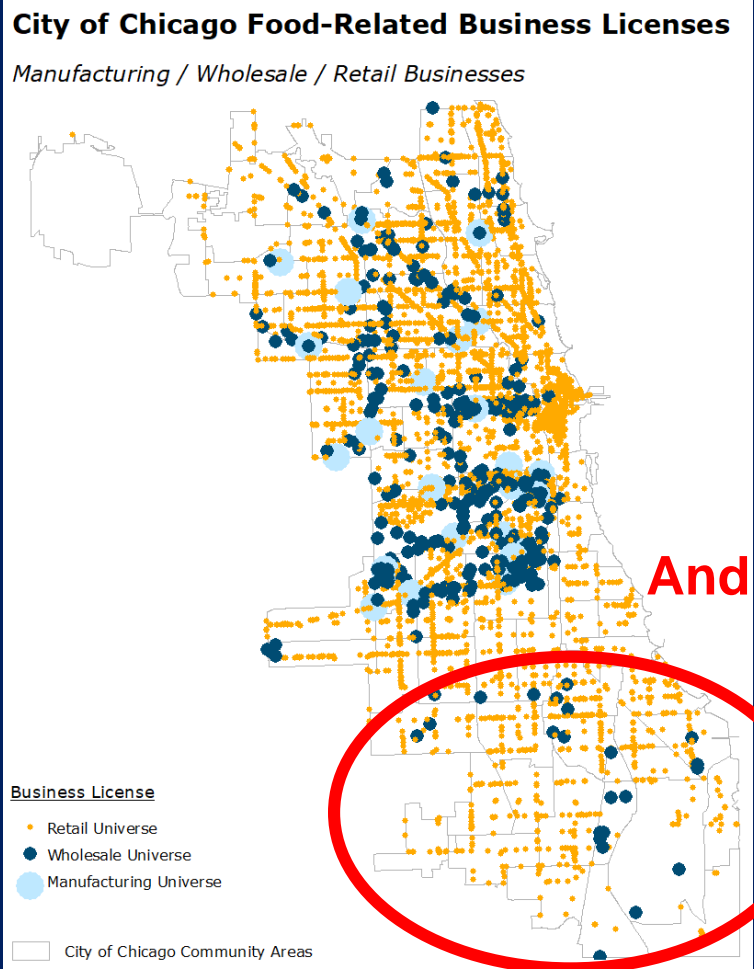
City of Chicago Food-Related Business Licenses

Manufacturing / Wholesale / Retail Businesses



From service to production

Occupation Profile		Skills	
Occupation	IL ..	Education	Abilities
Customer Service Representative			Monitoring, Negotiation, Reading Co., Service Ori., Social Perc., Speaking, Time Mana., Judgmental, Stamina, Problem Solving, Manual Dexterity, Flexibility, Information, Time Management, Mathematical, Perceptual
Food Preparation Workers	\$24,220 Annually	45% High School Diploma or Equivalent	Active Listening, Social Perc., Speaking, Coordination, Critical Thinking, Monitoring, Reading Co., Social Perc., Speaking, Time Mana., Strength
Laborers and Freight, Stock, and Material Movers, Hand	\$33,510 Annually	75% High School Diploma or Equivalent	Active Listening, Information, Control, Written Communication, Deductive Reasoning, Problem Solving, Flexibility, Manual Dexterity, Strength
Stock Clerks	26,220 Annually	70% High School Diploma or Equivalent	Active Listening, Complex Problem Solving, Critical Thinking, Written Communication, Operation



And DISTRIBUTION

NEW Opportunities?



LOOKING AHEAD:

**RACIAL AND ECONOMIC
EQUITY**



SOLAR

Solar Photovoltaic (PV) is a technology that converts sunlight directly into energy through semiconductors such as solar panels. This method produces no pollution and emits no greenhouse gases. Solar PV NAICS sectors include semiconductor and related device manufacturing; plumbing, heating, and air-conditioning contractors; and semiconductor machinery manufacturing.

- 169 jobs
- 25 establishments
- 1,310% job growth from 2005-2015
- \$135,719 national average annual wage



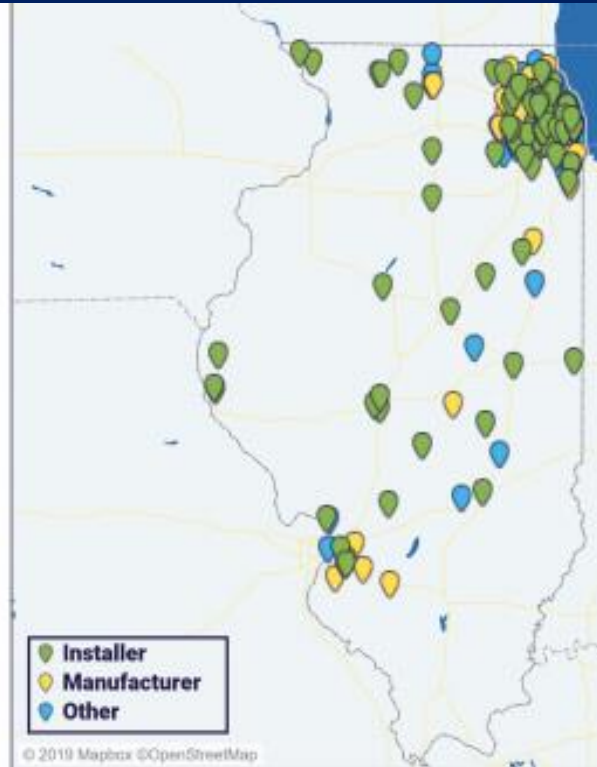
FUTURE
ENERGY JOBS ACT



Illinois Solar For All

- **Increased opportunity for installation...**
- **But what about the supply chain?**

- **Less than 30 Solar Panel Manufacturing & Assembling Factories in the U.S.**
- **None in Illinois**



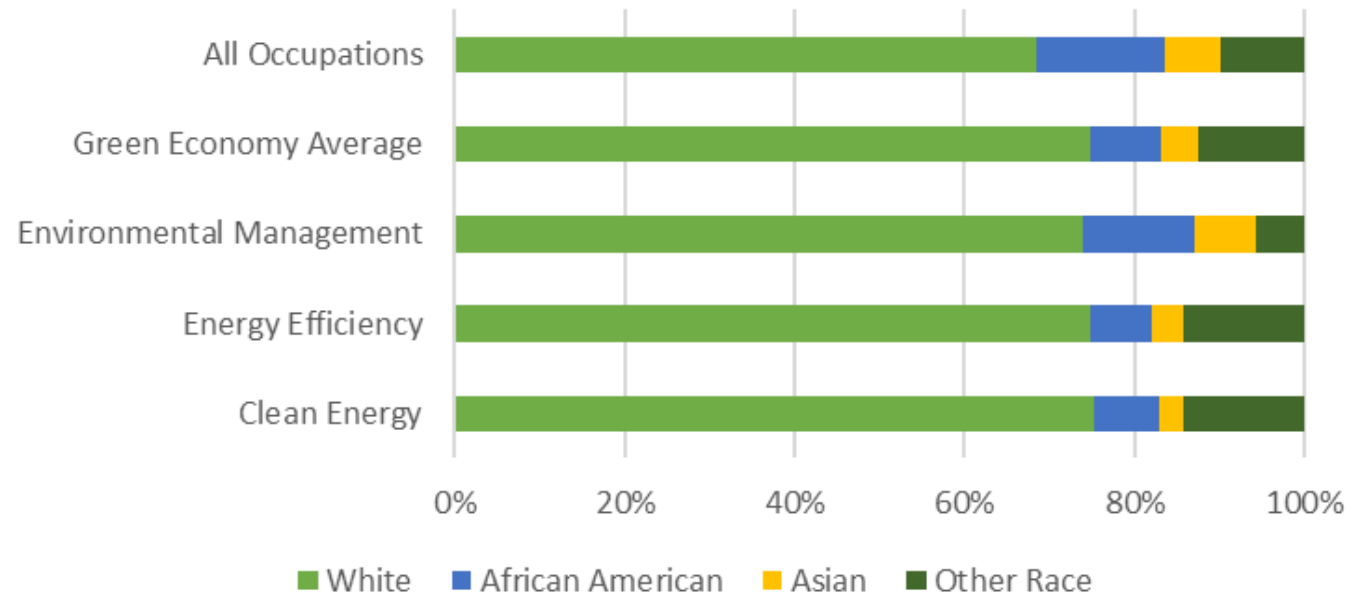
Chicago's Clean Energy Future

The Clean Energy Economy & Inclusion in the Chicago Region

May 2020

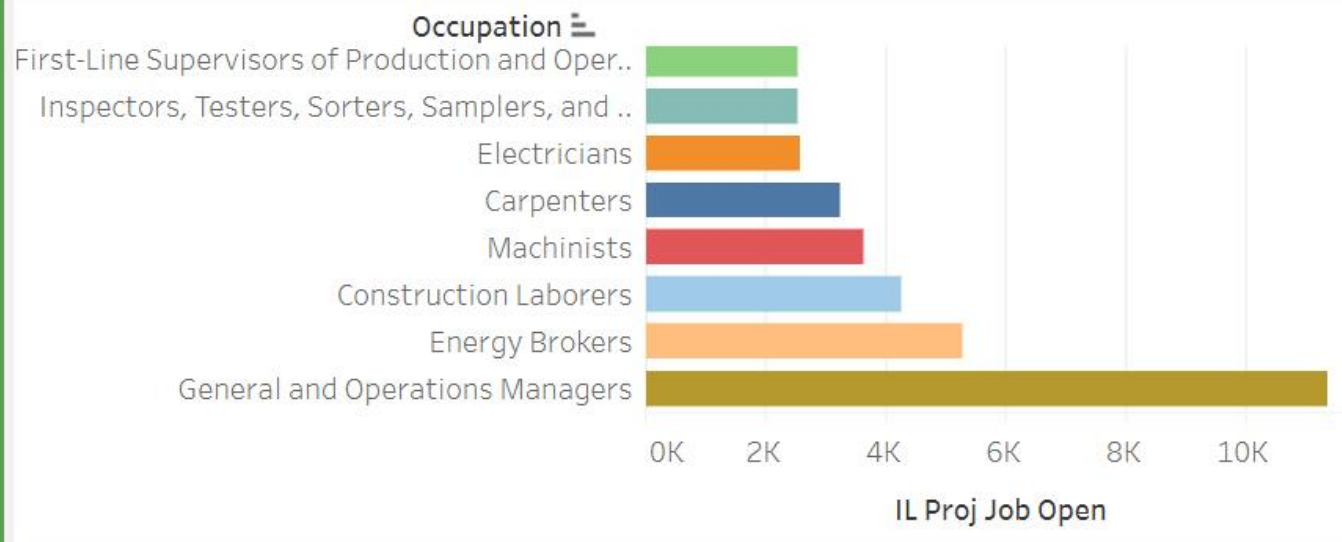


Racial Mix: Clean Energy V All Occupations, Chicago Region



Green Jobs on the Rise in Illinois

Projected Jobs in Illinois in 2028



IL 2018 Median Wage

Occupation	Median Wage
Inspectors, Testers, Sorters, Sam..	\$37,450
Machinists	\$38,540
Production, Planning, and Expedit..	\$46,440
Energy Brokers	\$52,090
Industrial Machinery Mechanics	\$54,930
Construction Laborers	\$56,710
First-Line Supervisors of Producti..	\$59,920
First-Line Supervisors of Mechani..	\$67,790
Carpenters	\$69,470
Electricians	\$79,770
Operating Engineers and Other C..	\$83,860
Plumbers	\$84,390
Industrial Engineers	\$85,570

Most Common Level of Education Acheived



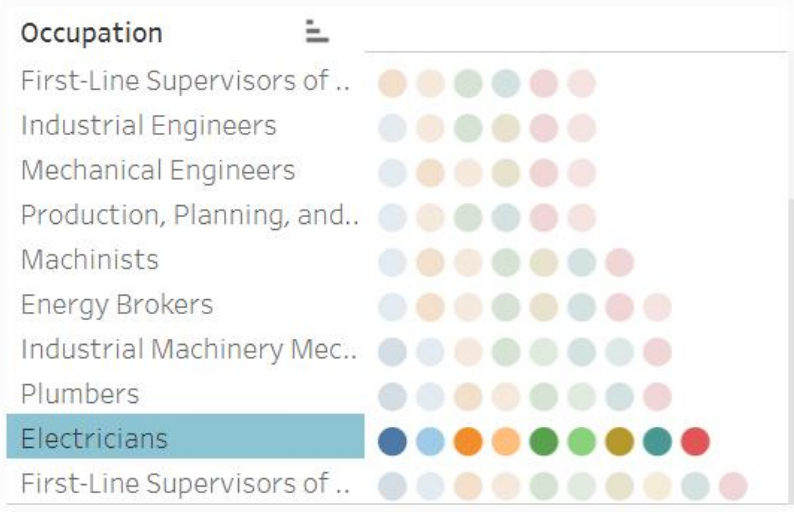


Skills, Abilities, and Technology for Green Jobs on the Rise in IL

Skills Needed in All Occupations

- Active Listening
- Complex Problem Solving
- Critical Thinking
- Equipment Maintenance
- Installation
- Judgment and Decision Making
- Mathematics
- Negotiation
- Operations Analysis
- Quality Control Analysis
- Reading Comprehension
- Service Orientation
- Social Perceptiveness
- Systems Analysis
- Systems Evaluation
- Time Management
- Troubleshooting
- Writing

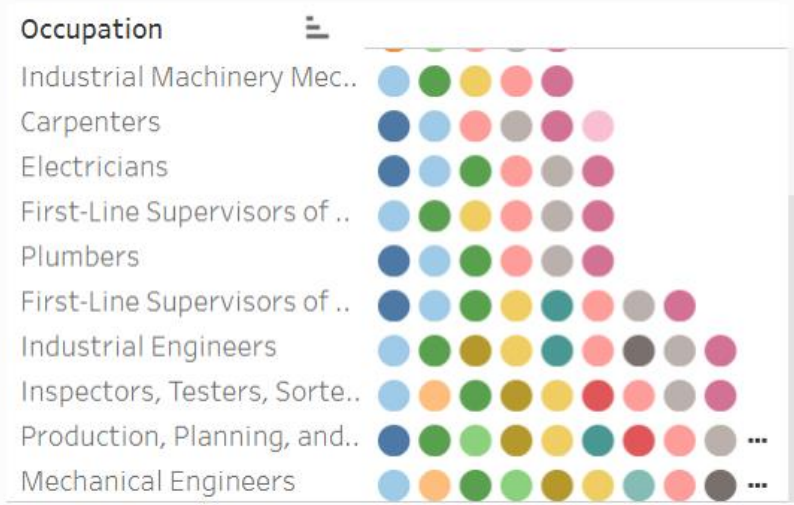
Abilities by Occupation



Abilities

- Control Precision
- Deductive Reasoning
- Fluency of Ideas
- Inductive Reasoning
- Information Ordering
- Manual Dexterity
- Mathematical Reasoning
- Memorization
- Problem Sensitivity
- Spatial Orientation
- Written Comprehension
- Written Expression

Tech Skills by Occupation



Tech Skills

- Accounting software
- Computer aided design
- Customer relationship management
- Data base management
- Electronic mail software
- Financial analysis software
- Graphics or photo software
- Industrial control software
- Inventory management software
- Map creation software
- Medical software
- Office suite software



**Economic Development
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A photograph of a worker in a safety harness and hard hat using a power drill to install solar panels on a roof. The image is overlaid with a green tint. The worker is in the foreground, leaning over the panels, while another worker is visible in the background. The sky is blue with some clouds.

Promoting green economic development in the Chicago region



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Contact Janet Smith at janets@uic.edu