



Nathalie P. Voorhees Center for Neighborhood and Community Improvement

CMAP, Joint meeting of the Economic Development and Environmental and Natural Resources Committees, March 22, 2021

# **AGENDA**

- Brownfield redevelopment
- Clean Energy Opportunities for 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 ecofriendly businesses and develop a highly skilled workforce talent pool that is prepared for these opportunities

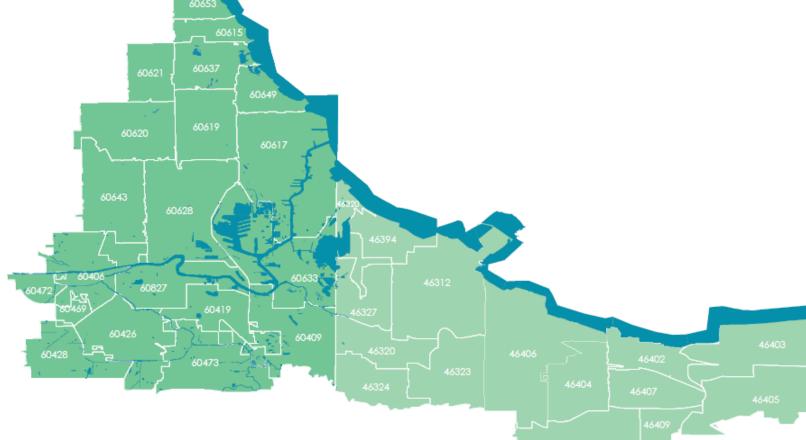
**Ecosystem Assessment** Deep dive Workforce \( Case studies Site Inventory Tools **Stakeholders** 

# BROWNFIELD REDEVELOPMENT TOOL

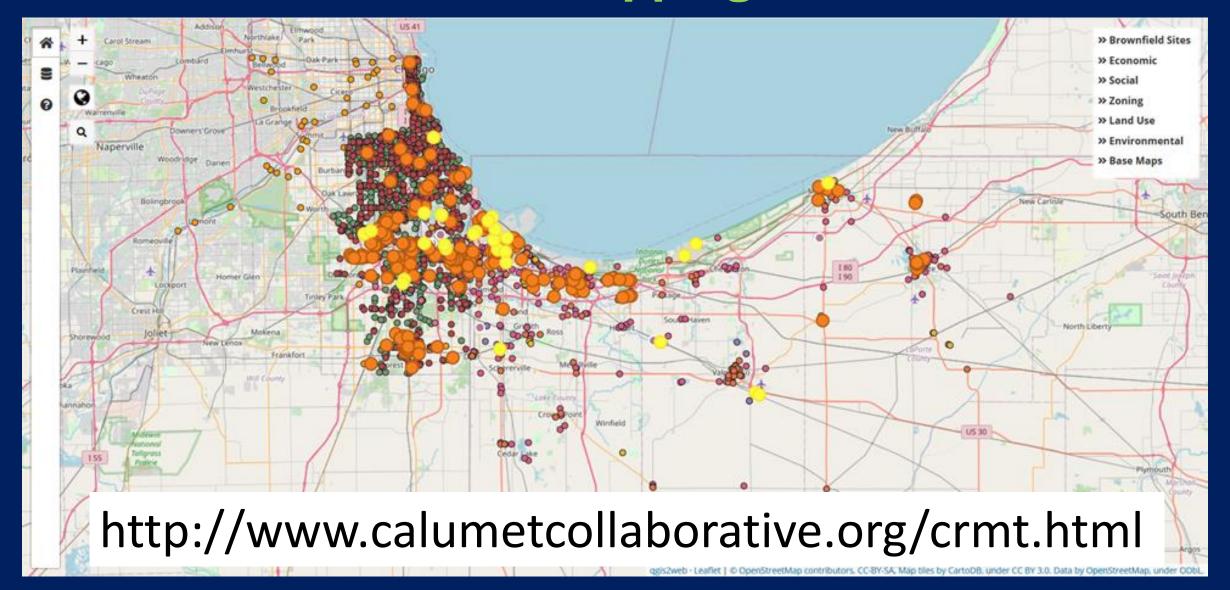


# BROWNFIELD REDEVELOPMENT

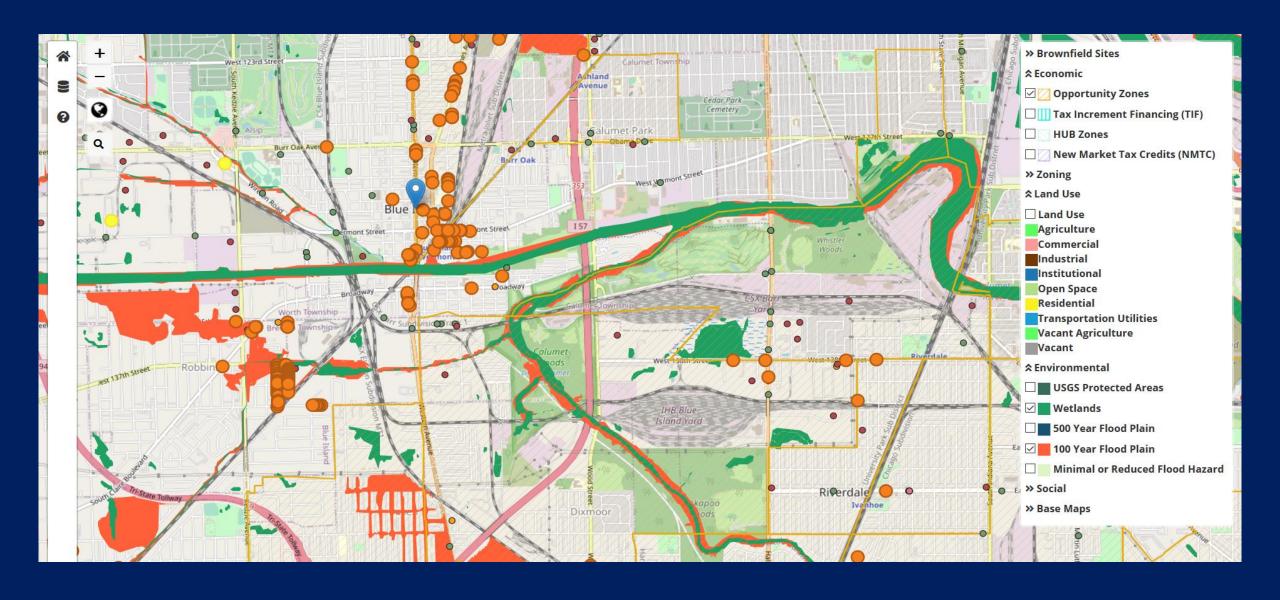




# **Calumet Reinvestment Mapping Tool**



# **CRMT Demonstration**



# CLEAN ENERGY OPPORTUNITIES FOR RACIAL AND ECONOMIC EQUITY

# Clean Energy Jobs Act (CEJA)

- Creating Clean Jobs Workforce Hubs, a network of frontline organizations that provide direct and sustained support for minority and disadvantaged communities, including job opportunities
- Prioritizing companies that implement equity actions to ensure equitable representation in Illinois' clean energy workforce
- Creating a Contractor Incubator program that focuses on the development of underserved businesses in the clean energy sector
- Creating Clean Energy Empowerment Zones to support communities and workers who are economically impacted by the decline of fossil fuel generation

# **Just Transition**

"An intentional shift toward a society in which the economy and the environment can thrive simultaneously, with social structures in place to make sure equity takes priority in the process as well as the outcome."

# Chicago's Clean Energy Future

The Clean Energy Economy & Inclusion in the Chicago Region

May 2020







# 2020 US Energy and Employment Report

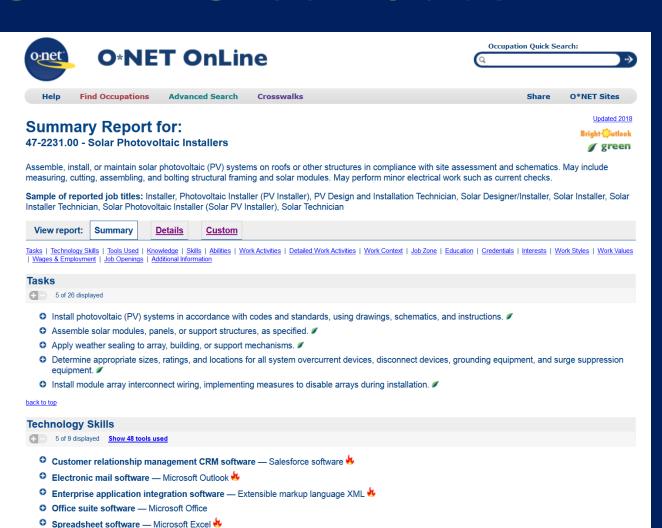
Employers in Illinois gave the following as the top three reasons for their reported hiring difficulty:

- 1. Lack of experience, training, or technical skills
- 2. Competition/ small applicant pool
- 3. Insufficient non-technical skills (work ethic, dependability, critical thinking)

https://www.usenergyjobs.org/

# **O-NET Green Jobs**

🖖 Hot Technology — a technology requirement frequently included in employer job postings





# A DATABASE FOR A CHANGING ECONOMY

Review of the Occupational Information Network (O'NET)



# Green Jobs on the Rise in Illinois

# Projected Jobs in Illinois in 2028 Occupation = Mechanical Engineers

Industrial Engineers

Industrial Machinery Mechanics First-Line Supervisors of Mechanics, Installer..

Operating Engineers and Other Construction ..

Production, Planning, and Expediting Clerks

Plumbers

First-Line Supervisors of Production and Oper..

OK 2K 4K 6K 8K 10K

IL Proj Job Open

### Most Common Level of Education Acheived

Education 🗐			
High school diploma or eq			
Post-secondary certificate			
Bachelor's Degree			



### IL 2018 Median Wage

Occupation =	
Inspectors, Testers, Sorters, Sam	\$37,45
Machinists	\$38,54
Production, Planning, and Expedit	\$46,44
Energy Brokers	\$52,09
Industrial Machinery Mechanics	\$54,93
Construction Laborers	\$56,71
First-Line Supervisors of Producti	\$59,92
First-Line Supervisors of Mechani	\$67,79
Carpenters	\$69,47
Electricians	\$79,77
Operating Engineers and Other C	\$83,86
Plumbers	\$84,39
Industrial Engineers	¢95 57



## 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



### Tech Skills by Occupation



### Abilities

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

### Tech Skills

- Accounting softw...
- Computer aided d...
- Customer relatio...
- Data base manag...
- Electronic mail so...
- Financial analysis...
- Graphics or photo...
- Industrial control ...
- Inventory manag...
- Map creation soft...
- Medical software
- Office suite softw...





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