

# EWI Low Income Workgroup

October 7, 2021



# Agenda

Welcome, Introductions

Brad Banks, MPSC

*MSU Industrial Assessment Center*

*(in collaboration with Michigan Tech University and  
Henry Ford College)*

Dr. Kristen Cetin, Dr. Annick Anctil, Dr. George Berghorn  
Faculty, Michigan State University

*The 211 Project*

Hassan Hammoud

Director, Michigan 211

*Weatherization Day*

Lisa Ritter

Weatherization Coordinator

Bureau of Community Action and Economic Opportunity

*Townhall Projects: Workforce Development, Health and Safety*

Brad Banks, MPSC

Close and Adjourn

---

# Industrial Assessment Center

*Michigan State University*

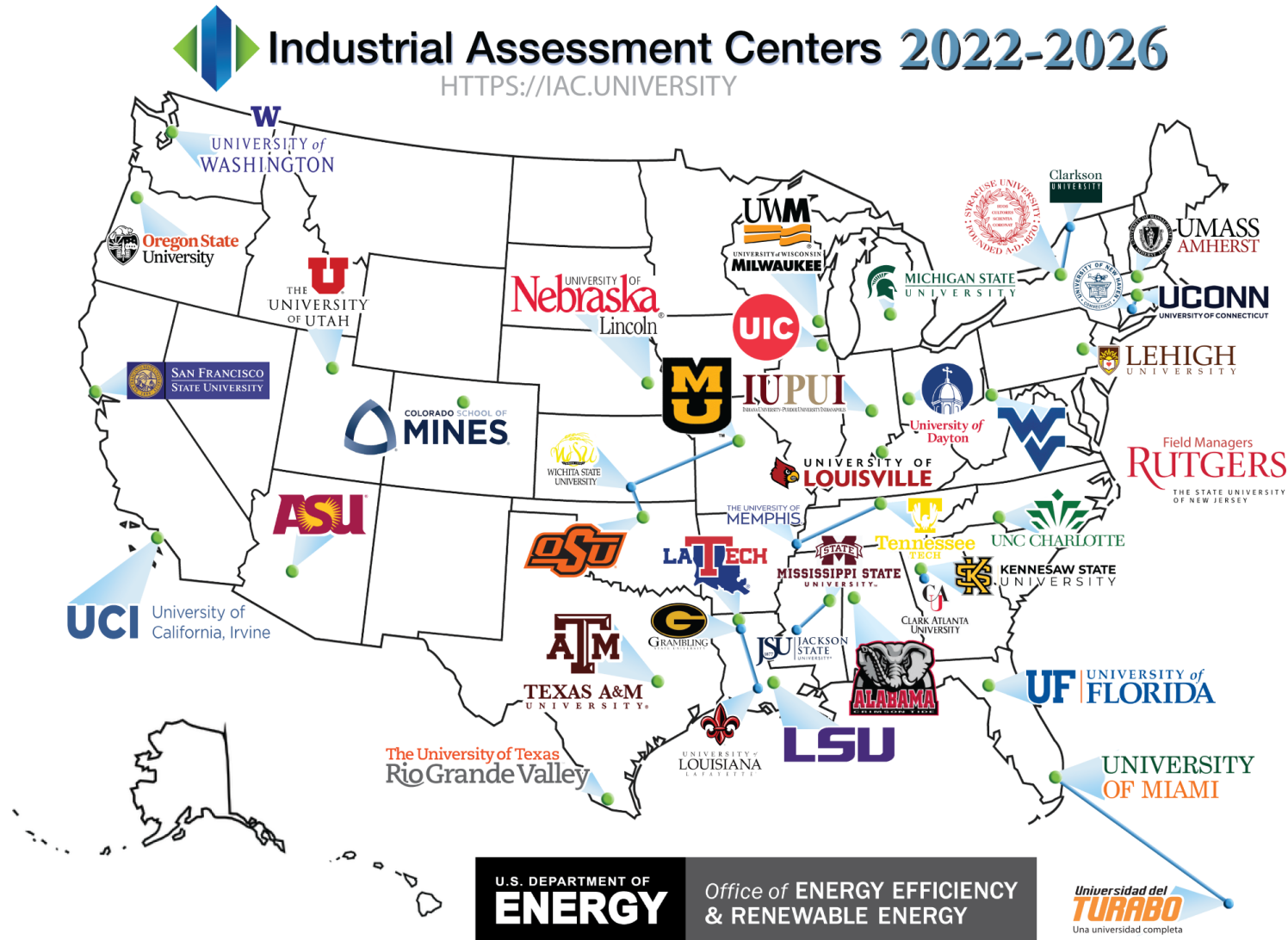
*In collaboration with Michigan Tech & Henry Ford College*

*October 6, 2021*

*Dr. Kristen Cetin, Dr. Annick Anctil, Dr. George Berghorn*



# Industrial Assessment Center (IAC) @ MSU



# Industrial Assessment Center (IAC) @ MSU

---

## *Leadership Team @ MSU*



**Dr. Kristen Cetin**  
Civil and Environmental Engr.  
*IAC Director*



**Dr. Annick Anctil**  
Civil and Environmental Engr.  
*IAC Assistant Director*



**Dr. George Berghorn**  
Construction Management  
*IAC Commercial Building Lead*

# IAC Scope of Work

## Topic 1: Industrial Assessment Center (MSU & Michigan Tech)



- 20 **industrial assessments**/year for 5 years throughout Michigan region
  - For small/medium manufacturers – 10% must be wastewater/water resource recovery
  - Ideally focus on disadvantaged communities/underserved
  - 4-5 student (grad/undergrad) /faculty/professional teams
- **Train students** (10+/year), develop curriculum
  - Energy engineering, other non-engineering
  - Manufacturing related skills; Hands-on involvement/learning
  - Focus on diversity & inclusion; Internship/traineeship opportunities

## Topic 2 Commercial Building Efficiency Workforce Development (MSU & Henry Ford College)



- ~15 **commercial building assessments**/year for 5 years
  - Smaller teams
- Develop coursework, **train students** (5-10 students/year)

*Presentation purpose: your feedback, suggestions, comments, and potential collaborations for follow up*

# Assessments: *Targeted Locations*



## **Industrial Assessments** (MSU & Michigan Tech)

*Throughout Michigan & surrounding areas*



## **Commercial Building Assessments** (MSU & Henry Ford College)

*Targeting central/south Michigan*





# Assessments: (1) *Recruitment & Eligibility*

---

## **Industrial Assessments**

### **Size of Manufacturers**

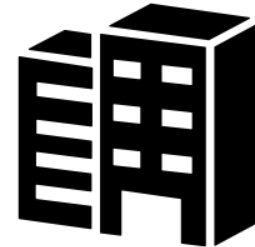
- Annual energy bills: 100K to \$2.5 million.
- Annual sales: less than \$100 million
- Less than 500 employees / plant
- No in-house energy professional on staff
- Within Standard Industrial Codes (SIC) 20-39



## **Commercial Building Assessments**

### **Size Building**

- 100,000 sq ft or less



### **Other Eligibility Requirements**

- Willing to have their company's name listed as a program participant.
- If previously received IAC assessments, must be 5 years after previous assessment
- Ideally in "disadvantaged" communities (see next slides)



# Assessments: (1) Recruitment & Eligibility

## Outreach Strategies & Methods to commercial buildings/manufacturers

### MSU Extension

- Outreach strategy development with district managers

### Referrals from partners & collaborators

- Flyer; developing website (complete this month)

### IAC website

- <http://IAC.university>

*Open to other ideas for outreach (for discussion)*

#### State-level:



#### Industry:



#### Local Support:



#### Utilities: CLEAResult® DTE



# Assessments: (2) Assessment Scope

---

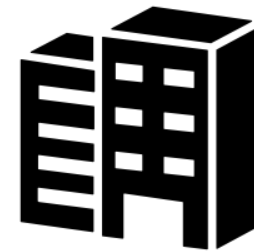
## Industrial Assessments

- **Primarily:** Energy & water efficiency; productivity
- **Additional Topics of Interest:**
  - Cyber security      Resiliency
  - Decarbonization      Electrification
  - IIoT



## Commercial Building Assessments

- **Primarily:** Energy & water efficiency; productivity
  - Space heating/cooling, ventilation
  - Water heating
  - Lighting
  - Cooking
  - Refrigeration
  - Plug/process loads



*Generally 1 day; ASHRAE Level 1-2 Assessments; Utility collaboration during assessments*

# Assessments: (3) *Reporting & Post-assessment*

---

## **Assessment Report & Follow up:**

- Cost-effective energy savings recommendations (short payback period)
- Suggestions of resources
- Connection with programs supporting recommendations (e.g. utility incentive/rebate programs)
- Encourage implementation & follow up

# Diversity & Inclusion Goals

---

DOE-recommended goal: “*Encourage the participation of disadvantaged communities and underrepresented groups.*”

## **Communities/Businesses/Manufacturers**

- Support and/or provide resources or assessments to entities located in disadvantaged communities
- Utilization of metrics to measure impacts on local community and/or disadvantaged communities.

## **Students/Workforce Development**

- encourage the inclusion of individuals from underrepresented groups in the IAC operations;
- address the training needs of underrepresented groups;
- student staffing plan to address student diversity, equity, and inclusion

# Diversity & Inclusion Goals: *Suggestions & Feedback*

---

DOE-recommended goal: “*Encourage the participation of disadvantaged communities and underrepresented groups.*”

## **Communities/Businesses/Manufacturers**

- Support and/or provide resources or assessments to entities located in disadvantaged communities
  - how would you define “disadvantaged” communities? businesses?
  - how can we best reach out to and work with these communities/ businesses
- Utilization of metrics to measure impacts on local community and/or disadvantaged communities.
  - how can we measure impact on these communities/businesses?

## **Students/Workforce Development**

- encourage the inclusion of individuals from underrepresented groups in the IAC operations;
- address the training needs of underrepresented groups;
- → what are the specific training needs of underrepresented groups
- student staffing plan to address student diversity, equity, and inclusion

Interested in collaborations? Have additional ideas, suggestions?

**Dr. Kristen Cetin ([cetinkri@msu.edu](mailto:cetinkri@msu.edu))**

**Dr. Annick Anctil ([anctilan@msu.edu](mailto:anctilan@msu.edu))**

**Dr. George Berghorn ([berghorn@msu.edu](mailto:berghorn@msu.edu))**

# The 211 Project

Hassan Hammoud  
Michigan 211





Michigan 211

## Next Generation Community Assistance Capabilities



Current and future innovations to improve how we collectively:

- identify needs,
- recommend agencies,
- deliver services, and
- document interventions.



### FOR REFERRERS

Secure access to the complete and highly curated social services resource directory including multiple options for search and filtering.

Secure access to electronically transmit patient or community member referrals to 211 for additional outreach or assistance.

Social Navigators to contact referred individuals, perform additional assessments as needed, and assist community members in engaging with social agencies, evaluating program(s), determine eligibility or provide enrollment assistance.

Electronic transfer of referral status or interventions back to your native platform (e.g., EPIC) to augment community member or patient records.



### FOR AGENCIES

Ability to actively participate in a Community Information Exchange (CIE) using your existing software platform.

Secure electronic transfer of community member demographic information to reduce redundant member record creation/data entry.

Ability to provide documentation back to the CIE of interventions completed, significantly reducing duplication of effort and incomplete records.

Notification via email or text for new referrals.

Secure access to the complete and highly curated social services resource directory, including multiple options for search and filtering.

Secure access to electronically transmit community member referrals to 211 for additional outreach or assistance.



Michigan 211 is committed to connecting community members across the state with social resources to improve their circumstances. The innovative use of technology and community relationships to connect social service agencies, state and local programs, health systems, health insurers and other stakeholders will exponentially improve how we serve our communities.

For more information, contact Hassan at [hassan.hammoud@mi211.org](mailto:hassan.hammoud@mi211.org).



# Close & Adjourn

Thank You!



Michigan Public Service Commission