



WEST MICHIGAN

GREEN LABS

REDUCE LAB ENERGY COSTS BY UP TO 50%



WMSBF Working Groups

- Climate Resiliency
- Solid Waste Task Force
- Sustainable Food Systems
- Energy Finance
- Social Responsibility
- Green Labs



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Michigan Green Labs Initiative

1. Identify areas for environmental improvement.
2. Introduce best practices and methods for source reduction and efficient use of energy, water, chemicals, and materials.
3. Facilitate the implementation of recommended sustainability-focused techniques.



Michigan Green Labs Initiative

- Source reduction and pollution prevention
- Material reuse and recycling
- Green product sourcing
- Toxics use reduction and green chemistry
- Hazardous substance substitution
- Micro-scale analytics



Adoption?

- Was it being used?
- Outside of research?
- Business community use?
- Comparison to other sustainability efforts?

- Anecdotally: Limited



Assumptions

- Where cost reduction and environmental-themed marketing claims are a priority
- Where there are existing pollution prevention initiatives and personnel tasked with carrying out such initiatives
- Among audiences currently involved in or that could become involved with sustainable business forums or similar programs



Project Background

- Updating self-assessment and accompanying materials
- Green Labs Workshop
- Green Labs Certification
- Establish test case at Intertek
- Roll-out



Updating Self Assessment and Resources

- Self Assessment was updated based on user feedback
- Reconciled with I2SL
- Resources added including potential financial assistance tools



CERTIFIED GREEN LAB AND RESOURCE GUIDE

Introducing Certified Green Lab

Certified Green Lab provides a benchmark for sustainability efforts and a pathway to recognition. Built upon the Michigan Green Labs Initiative Self-Assessment, participating labs are awarded points for successfully adopting and verifying sustainable laboratory practices, and setting goals for improvement. The assessment includes a survey checklist, process and materials inventory, and a goal-setting exercise, plus up to 10 hours of assistance from WMSBF fellows in identifying resources and strategies for addressing problem areas.

All labs that complete the assessment and set improvement goals will be recognized as a Certified Green Lab for one year. Labs must demonstrate minimal effort toward improvement goals to maintain certification. Honorees will receive a certificate and a window sticker. Interested labs will also be recognized in a news release.

[Download the Green Labs Self Assessment Here](#)

[Self-Serve Resource Response for Green Labs Self Assessment Questions](#)

Green Labs Resource Guide

WMSBF Green Labs Resource Guide

- [Water Conservation](#)
- [Utility Use](#)
- [Refrigeration](#)
- [Green Purchasing and Green Chemistry](#)
- [Waste Reduction, Disposal and Treatment Guide](#)
- [Equipment and Operation](#)
- [Education and Communication](#)

MEMBER NEWS

5 Lakes Energy ADAC Advanced Green Architecture Alliance for Environmental Sustainability

Amway **Aquinas**

College ArtPrize Asterisk Associates

Barfly Busy Bea's Services

Calvin College CarbonNeutral

Company Cascade Engineering

Catalyst Partners City of Grand Rapids

climate change climate resiliency

Clothing Matters **Consumers**

Energy Creative Dining Services

crowdfunding Crystal Flash Direct

Trade Coffee Club Disher Design

Downtown Market ECO Metrics Energy Finance

Analytics LLC ERM Ferris State University FTC&H

Fulton Street Farmers Market Grand Rapids

Community College Grand Rapids

Downtown Market **Grand**

Valley State University

Greener Grads GVSU Haworth

Herman Miller Holland





Green Labs Certification

- Benchmark for sustainability efforts
- Recognition
- Based off self assessment score
- Renewals required



Target Audiences

- Research
- Pharmaceutical
- Manufacturing
- Health care
- Government
- Environmental consultants
- Photo
- K12
- Testing



Intertek Testing Services

- Proving ground
- 110,000-square-foot facility
- testing, training, advisory, quality assurance and certification services
- North American sustainability director
- \$259,753 electrical bill
- 7.5 million gallon water use.



Intertek Testing Services

- Embedded sustainable business intern for six months
- Started out: Green chemistry, lab equipment efficiency
- Refocused: Recycling, HVAC



Findings

- Job scope gaps
- Needed
 - A platform for dialogue
 - More access to information, collaboration
 - Means to capture suggestions
 - Team effort on sustainability
 - Sustainability director not best leader for labs
- Value-add:
 - Recycling to save \$42,194



Roll-Out

- Three certified labs and counting
 - Intertek
 - Perrigo
 - Johnson Controls Meadowbrook



Roll-Out

Company	Responses				
	Yes	No	Partial	Unknown	N/A
Intertek	22	11	9	4	10
Perrigo	27	15	6	4	4
Johnson Controls, Inc.	31	2	13	0	10



Findings

Where cost reduction and environmental-themed marketing claims are a priority: **True, to a limited degree**



Findings

Where there are existing pollution prevention initiatives and personnel tasked with carrying out such initiatives
True, indirectly



Findings

Among audiences currently involved in or that could become involved with sustainable business forums or similar programs **False**



Initial Results, Findings

- Sustainability practice has limited understanding of labs
- Failed to create a sense of urgency
- But there was strong interest...
- Conversation difficult to limit to lab space



Moving Forward

- Promote when we hit five certified labs
- Formalize into a user group
- Host fourth annual workshop in 2016
- Exploratory committee for I2SL state chapter



Interested in Participating?

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