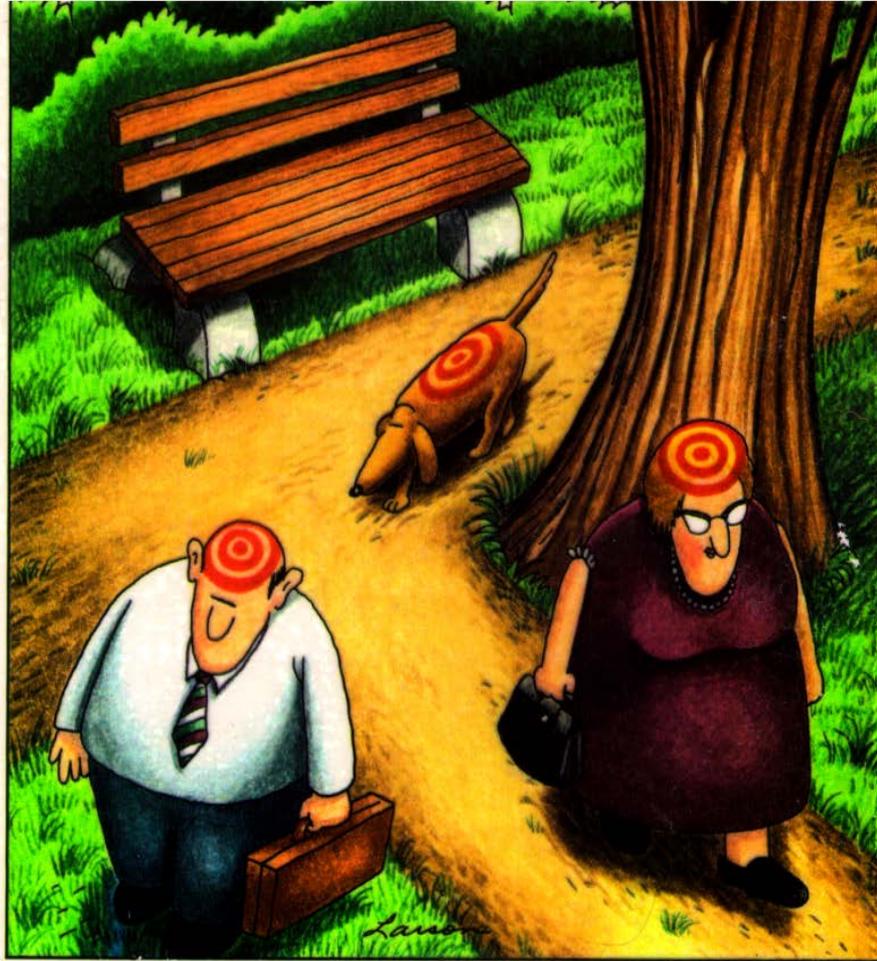


Environmental Stewardship in Michigan



Jeff Spencer
Office of Environmental Assistance
June 2014

How Birds See the World!!!



How birds see the world

Looking at
everyday
activities
from a different
perspective!

Far Side, Gary Larson

Definitions

Environmental Stewardship

responsible use and protection of the natural environment through conservation and sustainable practices.

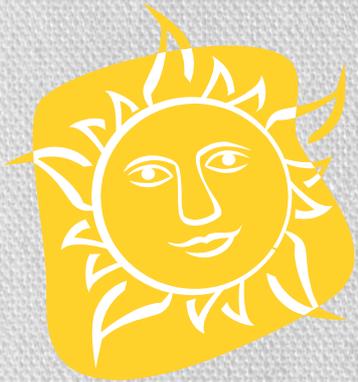
Pollution Prevention

eliminating or minimizing the initial generation of waste at the source or utilizing environmentally sound on-site and off-site reuse or recycling. Waste treatment, release, or disposal is not considered pollution prevention.

Proactive, Voluntary Environmental Efforts

- * Conserve natural resources
- * Minimize environmental impacts
- * Promote continual improvement
- * Improve community life
- * Save money

MICHIGAN'S CLEAN CORPORATE CITIZEN PROGRAM



Jeff Spencer
Office of Environmental Assistance
June 2014

C3 = *Achievement Benefits*

Positive Recognition for Your Environmental Performance

Share your success story!

- ❖ With Your Local Community
- ❖ With Management, Staff, and Co-Workers
- ❖ Elected Officials Love Good News
- ❖ Corporate Public Relations
- ❖ Publications



C3 Program Overview

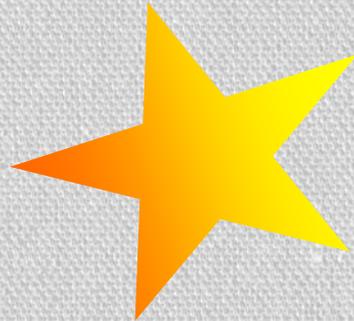
- Voluntary and Site Specific
- Established under Part 14, Clean Corporate Citizens, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA).
- Represents cross-section of industries, locations and sizes, automotive related suppliers, furniture, utilities, trade associations, health, public entities, many others
- 211 total designated facilities
- Thirty-nine (39) Michigan counties and one hundred and four (104) cities represented



C3 Program Overview

C3 Criteria

- Environmental Management System (EMS)
- Pollution Prevention (P2)
- Environmental Compliance
 - C3 Application Process & Designation
 - C3 Benefits



Annual Reports/Renewals

- Report on Environmental targets and goals
- Submit a compliance statement the facility is in compliance with all applicable state and federal environmental requirements
- Member facilities are required to renew every five years.
- Summary of EMS changes and review process



Why C3

- Merit for environmental stewardship and a strong environmental ethic
- Recognition of Environmental Management System.
 - Address environmental concerns through resources, responsibilities, and evaluation.
- Voluntary program; use efforts of environmental programs for a good cause.
- C3 planning committee involvement
(the future of C3)

Why C3

- A way to maintain, improve, and measure facility environmental programs.
- Diversify our relationship with the MDEQ
- Community outreach and recognition
- This is our company “above and beyond what is required”
- Expedited permitting and consideration from MDEQ
- Regulatory flexibility
- Transparency of facility and company

Why C3

Heart of C3: Improve the Environment in Michigan through

- Community involvement
- Recycling programs
- Waste reduction
- Energy conservation
- Efficient use of raw materials
- Conserve natural resources
- Increased industry knowledge of environmental programs throughout Michigan.

Designation Event





mitsuba

American MITSUBA Corporation

“AMC prides itself on a proactive commitment to environmental stewardship and continued growth in understanding our impact our in order to ensure a safe, healthy environment for the future. It is through the combined efforts of the entire AMC team that our facility was able to achieve the honor of C3 recognition by the MDEQ.”

American Mitsuba Corporation began operation in 1987 and currently employs just over 230 Associates in Mount Pleasant, MI. Environmental responsibility has long been a priority to this organization with environmental corporate objectives built into everyday operations. AMC envisions a world unburdened by pollution, aware that it coexists with our natural surroundings and is committed to doing its best to mitigate the effects that its products and processes have on the planet through continual improvement.

AMC is an ISO 14001/TS 16949 certified facility as well as one of the MDEQ's Michigan Business Pollution Prevention Partners and a Clean Corporate Citizen. For the year 2013, AMC has decided to become a patron sponsor involved with the Chippewa Watershed Conservancy.

Our Mount Pleasant Facility has reduced kWh energy use over 9% since 2010 despite an almost 30% increase in production.

Since beginning production, AMC has moved from a large quantity generator of hazardous waste to most recently a conditionally exempt small quantity generator. In 2012 less than one percent of solid waste from the facility was sent to landfill.

2012 also came with the implementation of a corporate-wide energy program and new procedures for the accurate calculation of greenhouse gas emissions down to the individual product level.

*Clean Corporate Citizen
28 September 2012*

Operations

*Corporate headquarters for
AMC manufacturing facilities*

*The design and manufacture of
DC electric motors, actuators
and electrical components for
the automotive industry*

*2945 Three Leaves Drive
Mount Pleasant, MI
48858*

Isabella County





GM Technical Center - Warren

Clean Corporate Citizen
since

November 2011

When the GM Tech Center talks about its commitment to being a Clean Corporate Citizen one can just look around to see it across the campus on a daily basis - wildflowers where there used to be grass and birds hunting and nesting are just a few. – Sue Kelsey, GM, Global Biodiversity Program Manager

Overview

The GM Technical Center is a General Motors facility in Warren, Michigan. The campus is home to GM engineers, designers, researchers, and technicians and has been the center of the company's engineering effort since its inauguration in 1956. The Tech Center includes 330 acres 25 main buildings and numerous additional structures including a water tower and 22-acre lake. The Tech Center was designed by architect Eero Saarinen and in 2000 was listed on the National Register of Historic Places.

Utility & Waste Reductions/Savings

The GM Tech Center has reduced total waste by 35 percent and continues to seek improvement opportunities through recycling initiatives and alternative waste management methods.

General Motors is renovating a former administrative building into a data center at the Warren Tech Center. The space—designed for potential Leadership in Energy and Environmental Design (LEED) gold status—will consolidate GM's IT infrastructure, reducing corporate IT operating and energy costs.

Wildlife Habitat

The Tech Center also retains more than 30 acres of wildlife habitat. The program is certified by the Wildlife Habitat Council. Among the features of this once-rural area is a tree belt that outlines the perimeter of the campus, and three man-made lakes that attract a variety of resident and migratory birds. Designated 'No Mow' zones have been established to allow native plant growth along the creeks.

Community Outreach

Employees at the Tech Center are also involved in the Clinton River Watershed Council and, more specifically, the council's Stream Leaders Project. GM employees work with local school teachers and students regarding water quality. GM Tech Center also participates in Earth Day Celebration promoting Global Stewardship



6250 Chicago Road
Warren Michigan

Macomb County

Michigan Green Communities Challenge



The Challenge: History

- Started in 2009 as a partnership of the Michigan Municipal League, Michigan Association of Counties, and Michigan Townships Association
- Over 90 communities completed the GCC
- In 2011, MGC worked with U of M students and MGC Advisory Committee to update the Challenge and reflect a broader scope

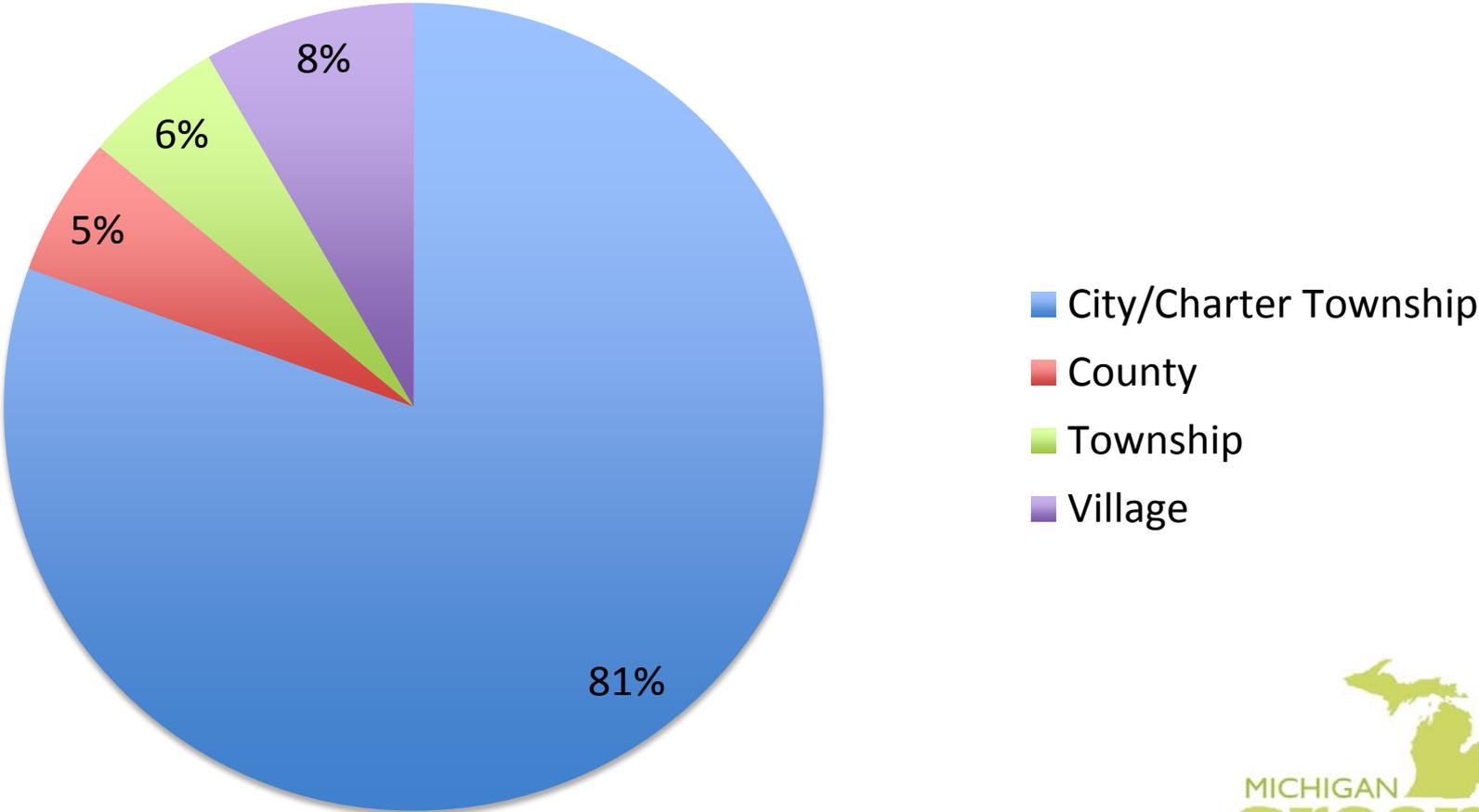
The Network

- Peer-to-peer network to share close-to-home best practices
- Monthly webinars
 - 3rd Wednesday of each month, 10am
- Monthly newsletter
- Annual conference
- Regional Events
 - Regional workshops
 - Leadership Academy
- Register - <http://mml.org/green/registration.php>

The Challenge: What's new?

- Online reporting (<http://mml.org/green/login.php>)
- Resource materials
- Recognition (and prizes?!)
 - Deadline to submit is October 24th
- Broader scope
 - Administration and Planning
 - Built Environment
 - Economic Development
 - Natural Resources

Total Participating Communities



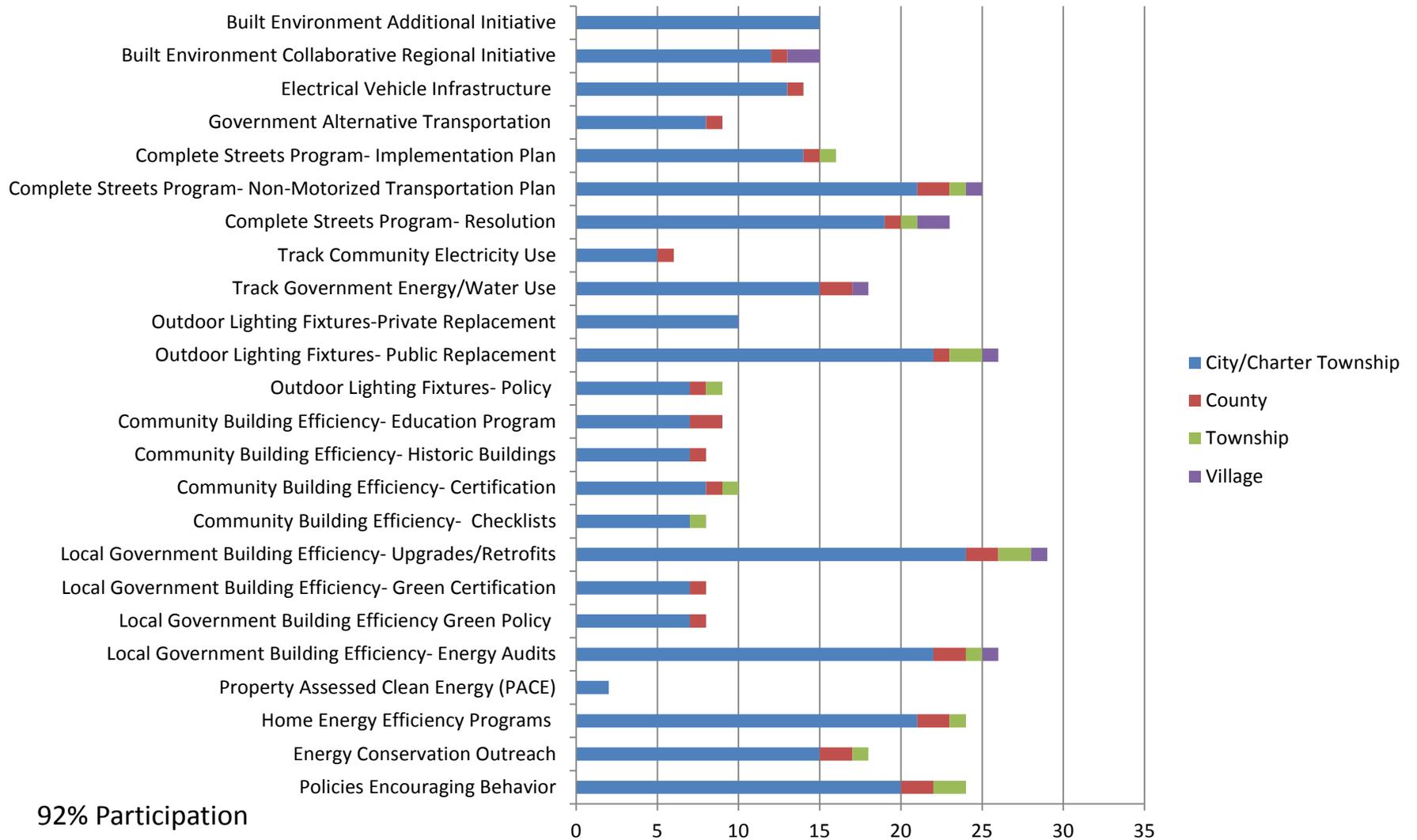
Administration + Planning



94% Participation

Top Participation: Open Space and Recreation Plan (29), Government Sustainability Team (22), Community Sustainability Team (18)
 Community Master Planning- Environmental/Social Equity (16),

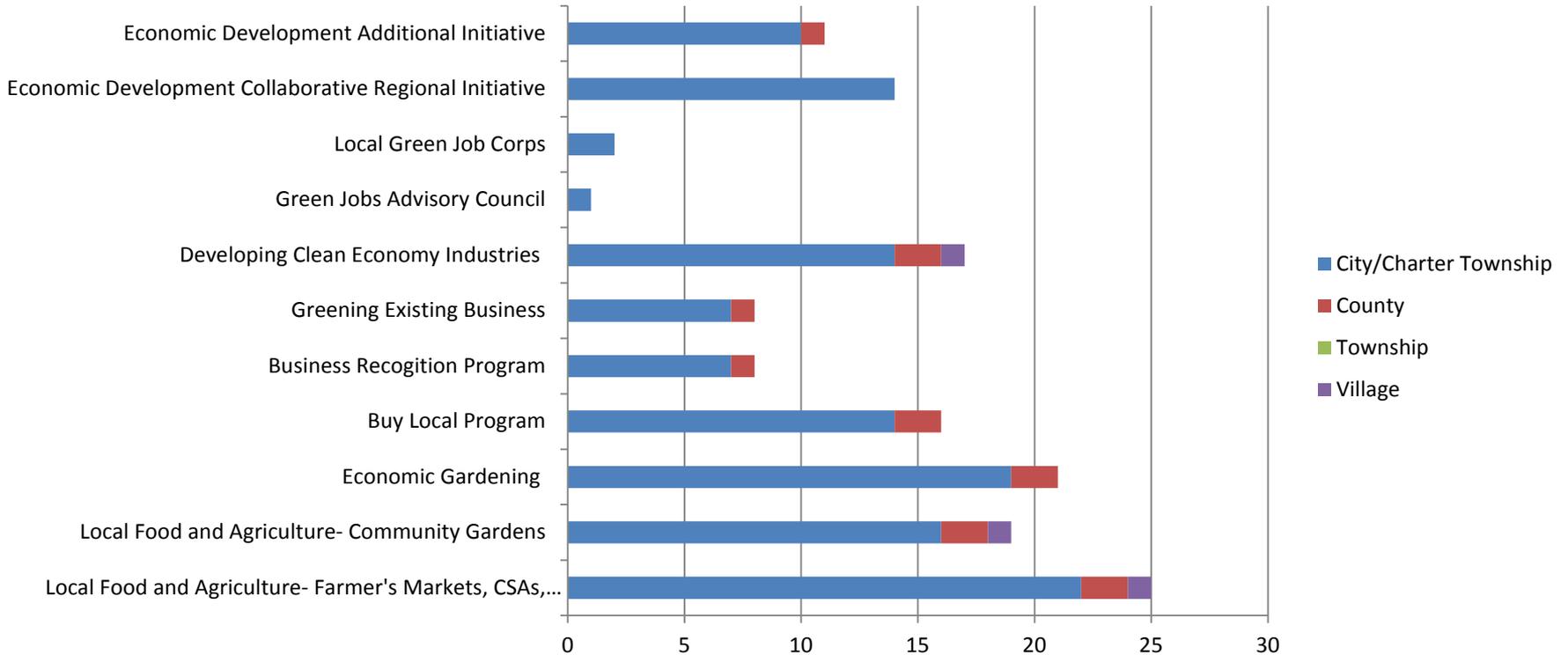
Built Environment



92% Participation

Top Participation: Complete Streets Program- Non-Motorized Transportation Plan (25), Policies Encouraging Behavior (24), Home Energy Efficiency Programs (24), Complete Streets Program- Resolution (23)

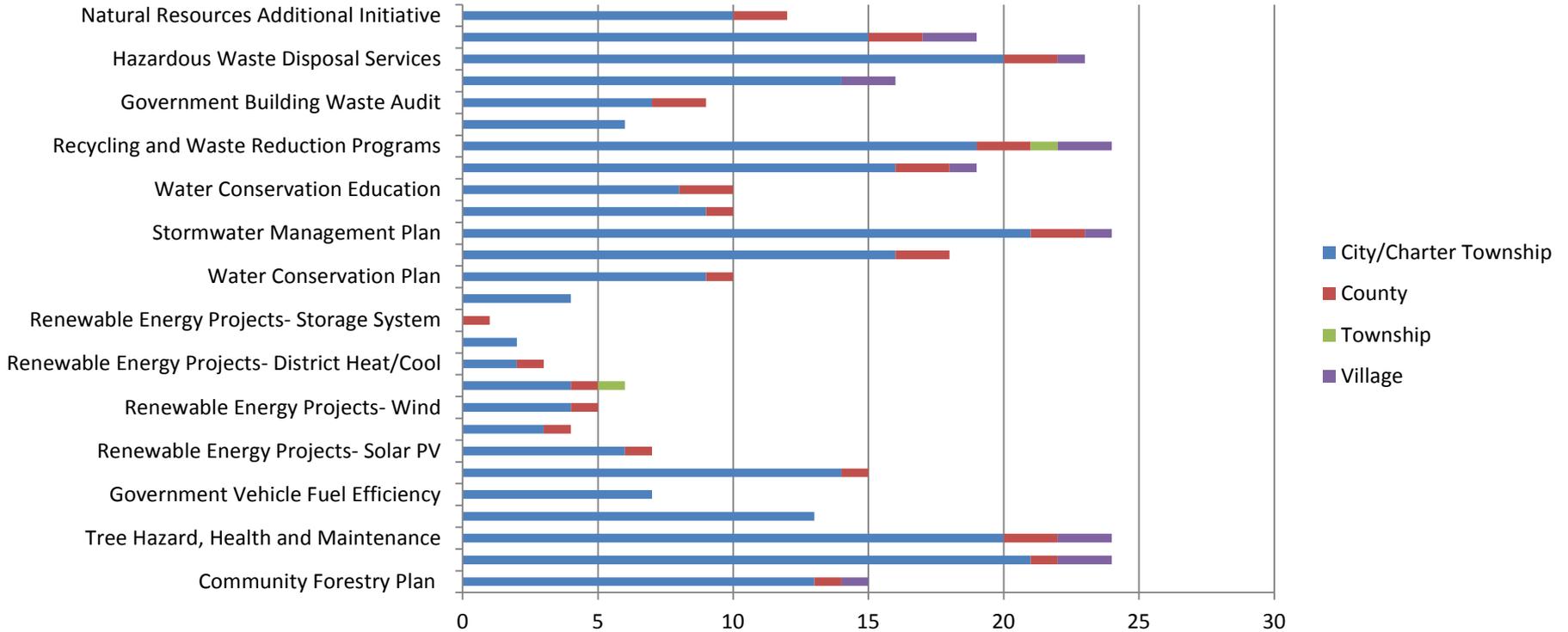
Economic Development



83% Participation

Top Participation: Local Food and Agriculture- Farmer's Markets, CSAs, Cooperatives (25), Economic Gardening (21), Local Food and Agriculture- Community Gardens (19), Developing Clean Economy Industries (17)

Natural Resources



83% Participation

Top Participation: Tree Planting Program (24), Tree Hazard, Health and Maintenance (24), Stormwater Management Plan (24), Recycling and Waste Reduction Programs (24), Hazardous Waste Disposal Services (23), Low Impact Design Policies (19), Watershed Protection Plan (18)

Michigan Turfgrass Environmental Stewardship Program

Founding Partners

Michigan State University

Michigan Turfgrass Foundation

Golf Association of Michigan

Michigan Golf Course Owners Association

MI Dept. of Agriculture & Environmental Quality

MI Golf Course Superintendents Associations

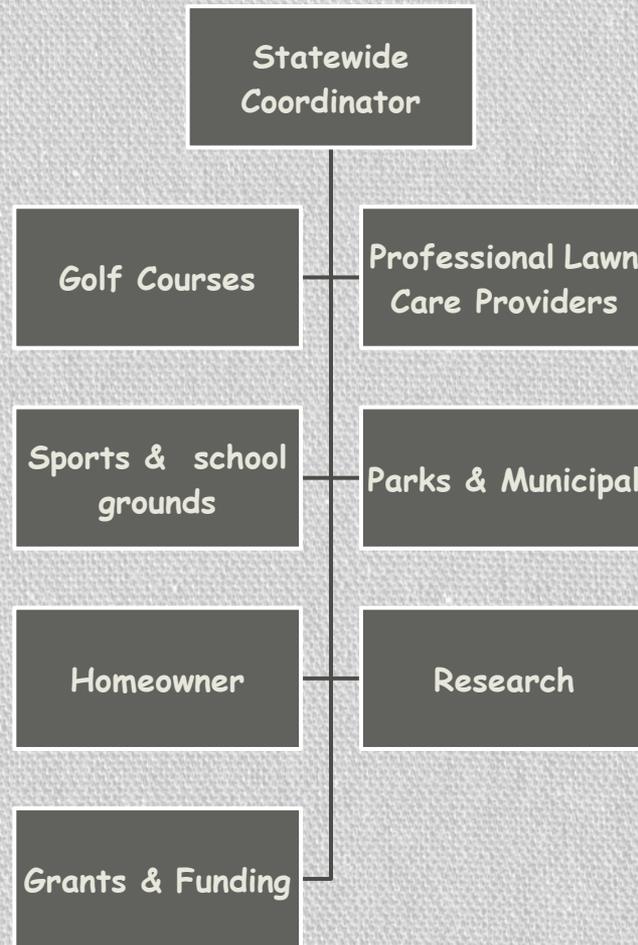


Michigan Turfgrass Environmental Stewardship Program



- Advance environmental stewardship of the golf industry
- Advance regulatory compliance
- Foster productive communication between industry, state agencies, MSU and environmental advocacy groups
- Enhance wildlife habitat, indigenous vegetation and protect water resources
- Recognize, promote and award stewardship achievement

Expansion



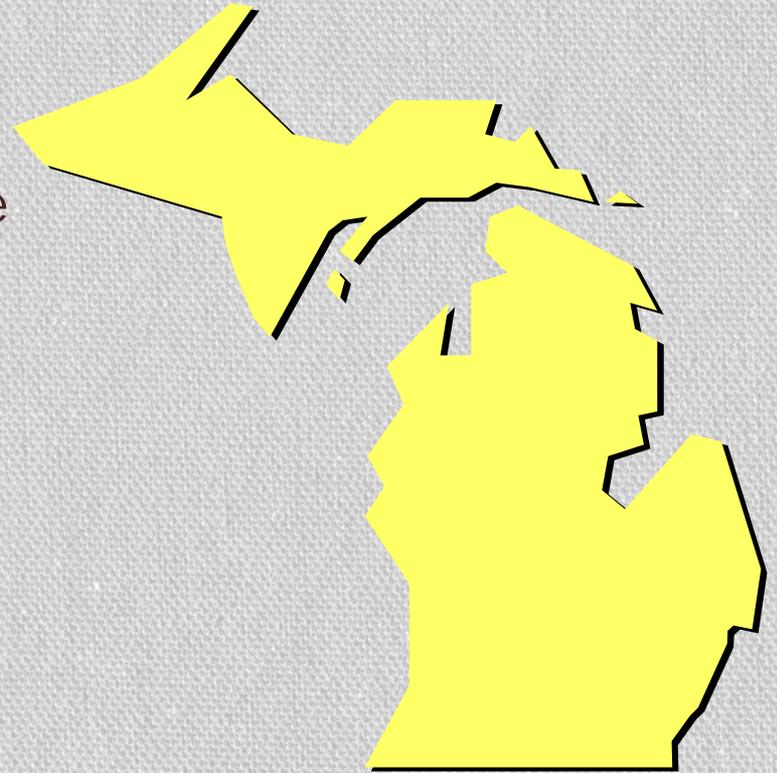
MI Clean Marina Program (CMP)

- Voluntary Partnering/Stewardship
- Formation of MI Clean Marina Foundation
- Enhancing and protecting the quality of our recreational waters
- Beneficial to Marinas/Boaters:
 - Offering assistance for compliance
 - Economic waste reduction strategies
 - Public recognition
 - Consistency – boater expectations



Program purpose

- To Educate:
 - Over 1 million registered boaters
- To Enhance:
 - 3,121 miles of Great Lakes shoreline
 - 11,037 inland lakes
 - Countless rivers & streams



MICHIGAN ENVIRONMENTAL LEADERS

WELCOME

Michigan Environmental Leaders initiative is part of an ongoing effort to improve environmental performance, encourage voluntary compliance, and build working relationships with stakeholders through the DEQ's existing pollution prevention framework. The effort consists of three distinct areas of participation depending upon one's current level of knowledge and resource availability; the Michigan Environmental Leaders Network, Michigan's P2 Partners, and Michigan Environmental Leaders.

Environmental Leaders



P2 Partners



Environmental Network



Neighborhood Environmental Partners



Toolbox



Clean Corporate Citizen



Environmental Management Systems



Questions?

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