

Clean Cities Partnerships

The Business of Plugging In
October 11, 2011



Clean Energy Coalition



Who We Are

Sean Reed, Executive Director
501(c)3 nonprofit
15 staff members
More than \$55M in projects



Projects and Services

Alternative fuel infrastructure development
Alternative fuel vehicle deployment
Municipal energy consulting
Commercial & residential audits
Renewable energy assessments

Clean Energy Coalition Divisions



Building public and private partnerships to help communities become healthier more energy independent.



Helping home and business owners assess critical needs and craft practical, affordable, and sustainable energy strategies.



Moving fleets forward with clean vehicle technologies to reduce the use of petroleum.



Mobility Division



U. S. Department of Energy



U.S. DOE Clean Cities



- 87 active coalitions in 45 states
- 775,000 AFVs using alternative fuels
- 6,600 AFV stations
- 8,400+ stakeholders

Clean Cities Coalitions



Clean Cities Alternative Fuels Portfolio



Alternative Fuels

- Biodiesel (B100, B20)
- Electricity
- Ethanol (E85)
- Hydrogen
- Methanol
- Natural gas
- Propane

Blended Fuels

- Biodiesel/diesel blends (B2, B5)
- Ethanol/gasoline blends (E10)



U. S. Department of Energy

EcoCAR Challenge



- EcoCAR is a competition among student teams at universities across North America to reduce the environmental impact of vehicles by reducing fuel consumption, petroleum use, and emissions while maintaining their utility, safety, and performance
- The Dept of Energy is a major sponsor of the and EcoCAR through the Clean Cities
- Each university team is responsible for outreach activities, such as educational, marketing, and media relations efforts.



Partner Highlight



Henry Ford Community College (HFCC):

Host site for the Detroit Area Clean Cities (DACCC) Program

Why is this an ideal partnership?

- DACCC Meetings attract technology providers, utilities, OEMs, municipal and private fleet managers, and others interested in petroleum and GHG reduction
- The meetings allow HFCC to promote its alternative energy programs, automotive technology programs, and demonstration projects (increasing visibility for program)
- Students are encouraged to attend meetings to learn more about energy efficiency and alternative energy programs – in practice.
- Students can network with potential employers

Michigan Green Fleets



U.S. Department of Energy ARRA Project

Building more than 50 fueling/charging stations to support the deployment of ~500 alternative fuel vehicles

PEV Partners and Projects Involved:

- DTE Energy/MichCon: > 200 CNG vehicle conversions and 12 CNG stations
- The University of Michigan: Three hybrid transit buses and 30 hybrid sedans
- Western Michigan University: 40 kW solar array and 15 Level-2 PEV charging stations
- Frito-Lay: ~75 LPG vehicle conversions and 3 LPG Stations

Plug-In Ready Michigan Grant



Clean Cities Community Readiness and Planning for Plug-in Electric Vehicles and Charging Infrastructure

- Development of a plug-in electric vehicle charging infrastructure community preparedness plan for Michigan.
- The project will incorporate state and local level policy implementation, education, and outreach.
- The final plan will be a Michigan-specific guide enabling local communities to support a comprehensive plan for the widespread adoption of plug-in electric vehicles.

■ Planning NOT Infrastructure

- Implementation of Local Policies
- Implementation of Local Procedures
- Implementation of Local Incentives



Grant Stakeholders



Cities/Local Government	OEMs	EVSE	College & University	Utilities	Community/Non-Profit Organizations
City of Ann Arbor	Chrysler	Aker Wade	Henry Ford Community College	Consumers	Ann Arbor DDA
City of Auburn Hills	Ford Motor Company	Coulomb	Michigan Technological Institute	DTE Energy	Ecology Center
City of Dearborn	General Motors	PEP Stations	University of Michigan Transportation Research Institute	UPPCO	Genesee Regional Chamber of Commerce
City of Detroit	Magna	Bosch		Indiana Michigan Power	Greater Lansing Area Clean Cities
City of Flint	Mercedes Benz	SPX		Lansing Board of Water & Light	Michigan League of Conservation Voters
City of Grand Rapids		Eaton			Michigan Municipal League
City of Houghton					National Electrical Contractors Association
City of Lansing			State Gov't	Commercial Property	SEMCOG
City of Warren			Michigan Energy Office (MEDC)	Laz Parking	
Oakland County			Michigan Public Service Commission		SWMPC

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