

**2001
Annual
Report**



**The Michigan Business
Pollution Prevention
Partnership**

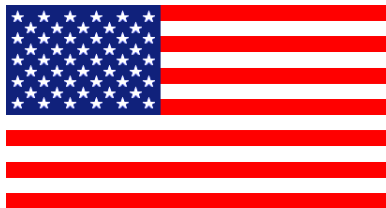
THE MISSION

The mission of the Michigan Business Pollution Prevention Partnership (MBP3) is the advancement of pollution prevention principles to the business community. These principles are strengthened by reductions or complete elimination of hazardous discharges or emissions to the environment by our partners. Source reduction is the key to developing sustainable environments; however, reuse and recycling efforts remain an important aspect to ultimate success.

EXECUTIVE SUMMARY

2001 IN REVIEW

The past year has been filled with many challenges for all of us ranging from a struggling economy to the events and aftermath surrounding September 11th. Despite these major challenges, the MBP3 remains a strong and viable partnership with continued steady growth and a renewed sense of commitment and direction. At the close of 2001, there were 137 registered MBP3 partners (an increase of 16% over the previous years total). Based on the characteristics of these new partners, MBP3 continues to attract a diverse range of businesses, associations, and municipal organizations. As the partnership has evolved over the past five years, more and more partners are focusing on their specific impacts to the environment along with the cost that these impacts incur (i.e. inefficient use of raw materials, waste disposal, remedial projects, and negative public relations). There continues to be a high level of commitment among partners to make the MBP3 a thriving and worthwhile alliance. A major highlight of this past year was the first MBP3 member workshop. The workshop was held to increase partner ownership in the program and to further encourage networking (or information sharing) among members. Workshops will continue to be held two to three times per year, depending upon interest.



SUMMARY OF MBP3 GOALS

MBP3 ANNUAL RENEWALS

MBP3 renewal stickers provide continuing recognition for partners in the program. These decals are provided to partners who remain in good standing in the partnership in years subsequent to their initial registration. In keeping with program requirements, partners that renewed their membership submitted goals for 2002 and summarized 2001 accomplishments in individual annual reports.

The MBP3 allows each business the choice of developing P2 goals that are the most cost-effective and technically feasible for their individual business. By allowing each MBP3 partner this flexibility, coupled with simplified reporting requirements, the program makes it attractive for businesses to participate. Businesses may elect to choose one or more P2 goals, either quantitative (i.e., 50% reduction in solid waste disposal, eliminate solvent based cleaners) or qualitative (i.e., establishment of an office waste recycling program, provide employee training programs). To further assist partners in formulating their annual P2 goals, MBP3 has developed a goals sheet, which explains what constitutes a P2 goal, and provides a listing of previously submitted member goals.

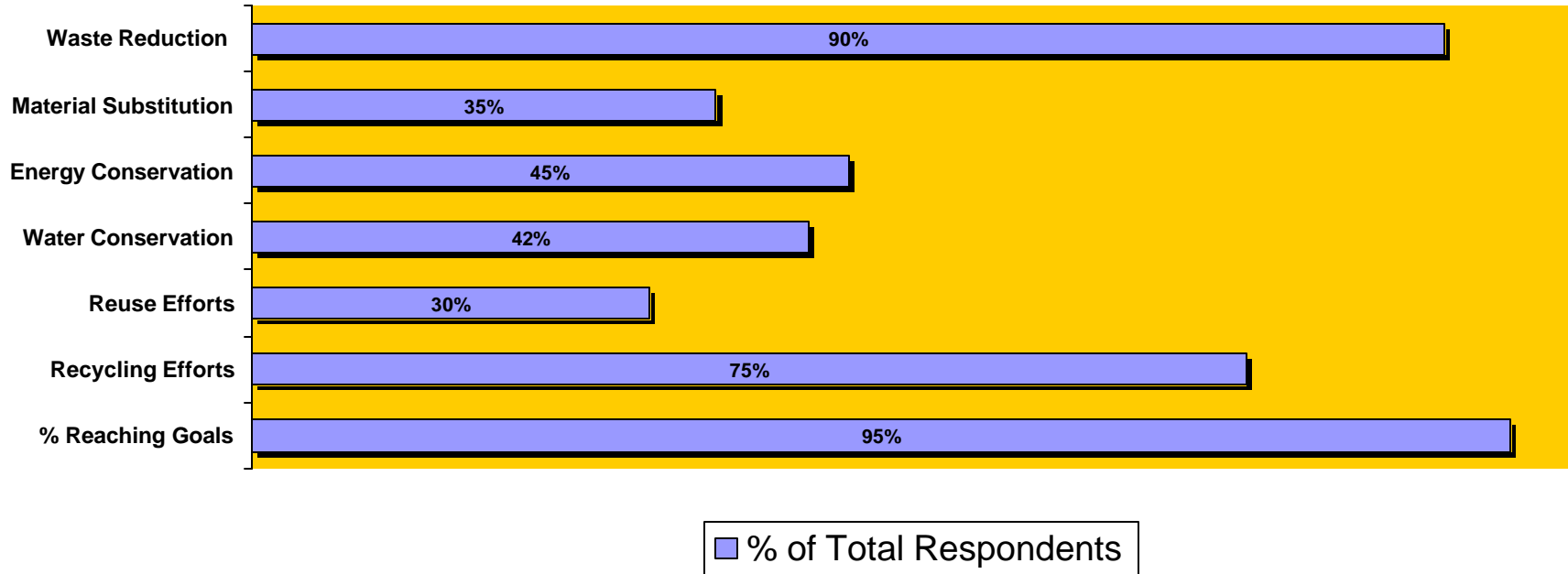


certificate of recognition

Based on the 145 MBP3 partners who have submitted their P2 goals for calendar year 2002, 90% focused on reducing or eliminating their wastes, 30% are developing innovative ways to reuse their waste, and 75% are implementing extensive recycling programs to handle their wastes.

2001 ACHIEVEMENTS

The accomplishments of the Michigan Business Pollution Prevention Partnership are credible and impressive to the overall protection of the environment, especially when taken as a whole. The following chart depicts several categories along with percentage participation among partners for 2001. During 2001 the partners reported recycling over 8,822 tons of cardboard, made forty-five (45) distinct material/process substitutions, incorporated extensive changes in behavior regarding environmentally preferable products, and made considerable progress within water and energy conservation programs.



2001 POLLUTION PREVENTION HIGHLIGHTS

The following represents the highlights of a portion of MBP3 partners, as outlined in their 2001 individual Annual Reports:

- ***Alpha Plastics** - Complete elimination of discharges to the Pine River through the introduction of a closed loop water recycling system and resulted in a 90% reduction in water usage.
- ***American Electric Power** - Paint use reduction program, solvent reclamation efforts, increased use of totes (decreasing the number of drums used), and extensive recycling of paper, batteries, and scrap metal.
- ***Auto Alliance International Incorporated** - Introduced a no-lead electro deposition priming process that effectively eliminated 7000 lbs of lead components from being released.
- ***Baker Furniture** - Installed a centralized spray gun cleaning station, which uses a low-VOC solvent, reuses the solvent, and minimizes evaporative loss. Also, now utilizing an on-site solvent reclamation system resulting in 75% reuse.
- ***C-Mar Products** - Reduced wastewater discharges from 1,000 gallons per week to 500 gallons per week, recycled 50,000 plastic drums into viable products, reduced flammable solvent by 50%, and changed from solvent stripper to a biodegradable substitute.
- ***Coldwater Board of Public Utilities** - Extensive recycling program established including; used oil, oil filters, antifreeze, batteries, utility poles, paper, and fluorescent lamps. Also, utilized customer billing for providing information on water conservation and fertilizer usage.
- ***Consumers Energy - Adrian Service** - Extensive recycling programs established including; motor oil, antifreeze, oil filters, batteries, styrofoam, wood pallets, office paper, cardboard, wood reels, scrap wire, mechanics rags, glass, and office/street lights.
- ***Consumers Energy - BC Cobb** - Increased their blend of western to eastern coal, which significantly reduced their sulfur dioxide emissions and an aggressive equipment maintenance plan effectively reducing the use of oils and absorbents.
- ***Consumers Energy - West Olive** - Implemented paper towel reduction program resulting in a decrease of nearly 50%. In addition, extensive recycling efforts involving mercury, batteries, cardboard, steel, light bulbs, and used oil.

***Cyltec LLC** - Reused or recycled 100% of their wood pallets, recycling 100% of shop rags/gloves, initiated a battery-recycling program, and utilized returnable dunnage, which has virtually eliminated their packaging waste.

***Delphi Corporation** - Achieved reductions in grinding swarf (273 tons), waste oil (93 tons), filter cake (54 tons), oil sludge (96 tons). Also, recycled 433,020 gallons of various oils and realized energy reductions of 6.1%.

***Delta College** - Now implementing classroom recycling programs and continuation of small-scale chemistry has reduced the volume of stock chemicals used in the classroom.

***Demmer Corporation** - Increased ratio of returnable versus expendable packaging by 27%, reduced non-hazardous disposal by 18%, and have reduced energy consumption by 59% over the past two years.

***Denso Manufacturing** - Reduced VOC emissions by 10%, eliminated cooling unit glue process (VOCs), reduced water usage by 31%, reduced lead solder usage by 40%, and reduced packaging material by 4.4%.

***Dewitt Barrels** - Increased process efficiencies from 5.2 to 7.5 drums reconditioned per gallon of waste generated. In addition, oil/water wastes are now reused as fuel as opposed to disposal resulting in further beneficial use.

***Eagle Ottawa LLC** - Eliminated over 32,000 lbs of hazardous wastes through a successful substitution program associated with their process chemicals, switched from fiber drum to plastic, and a reuse/recycling program for computer equipment.

***East Jordan Iron Works** - Pursued the recycling and beneficial use of foundry residuals (waste slag, sand, and dust) with the cement industry. A total of 12,554 tons of melt slag was recycled into cement.

***Eaton Corporation - Ann Arbor** - Increased usage of plastic totes for shipping and receiving parts has replaced large amounts of cardboard packaging materials.

***Eaton Corporation - Saginaw** - Reduced 61 tons of landfill refuse, reduced offsite oil recycling by 83,200 gallons, reduced landfill disposed sludge by 1,111 tons, and saved 1,507,200 Kwh of electricity.

***Fermi 2 Nuclear Power Plant** - Realized an 83% decrease in mixed wastes generated, recycled 485 gallons of cooking oil from site cafeteria, and decreased hazardous/universal wastes by 3%.

***Ford Motor - ATNPC** - Extensive-recycling efforts implemented including paint solvents, antifreeze, batteries, fluorescent lamps, oil filters, paper, and cardboard. Also, instituted an aerosol can puncturing system for drainage and eventual scrap metal recovery.

***Ford Motor - Livonia Transmission** - Reduced NOx emissions by 50 tons (57%), reduced petroleum based cleaner by 49,063 lbs (50%), and recycled 325 tons of aluminum grinding swarf previously landfilled.

***GMPT-Romulus Engine** - Implemented a plastic ring recycle program effectively diverting 4.5 tons from the incinerator, reduced plant refuse by 72%, and reduced production scrap by 5%.

***GMPT-Saginaw Metal Castings** - Reused 240,000 tons of foundry sand and slag for landfill liner and asphalt.

***Genesys Health System** - Recycled 5,888 fluorescent lamps, an increase of 12% over 2000 totals.

***Great Lakes Gas Transmission Co.** - Annual waste generated reduced from 750,000 lbs in 2000 to 358,000 lbs in 2001, a decrease of 52%.

***Hemlock Semiconductor** - Reduced hazardous waste from 106,677 lbs to 51,961 lbs, a 51% decrease. Also, reduced HCl air emissions by 27% and HNO3 air emissions by 54%.

***Huron Inc.** - Reduced mineral spirits by 27%, VOC air emissions by 27%, and overall solid waste to landfills by 18%.

***Irwin Seating** - Recently completed changeover to waterborne paints in the wood plant which will greatly reduce VOC emissions.

***Mark IV Automotive** - Reduced cardboard usage from 4.33 tons to 3.42 tons, reduced water usage from 13,500 gallon per day to 4,500 gallon per day, and eliminated VOCs from facility by removing paint operations.

***Mayco Plastics, Inc.** - Recycled over 4,000 gallons of oil on-site, diverted 8,000 lbs of scrap plastics from landfill, rebled 120 gallon of mineral spirits for reuse, and researched waterborne paint performance compared to solvent-based.

***Meridian Automotive Systems** - Sponsored a mercury thermometer exchange, diverted 13,000 lbs of hazardous waste from landfill through nickel recovery, and completed an aerosol can reduction program resulting in a decrease of 45%.

- ***Pfizer Global Manufacturing** – Established an extensive recycling program for paper/cardboard, steel, brass/copper, batteries, solvents and mercury, and reduced point source air emissions by 45%.
- ***Pfizer Global Research and Development** – Developed best practices for laboratory fume hood emission controls which has reduced VOC emissions, recycled 21% of their solid waste generated, and conducted internal training programs.
- ***Pioneer Foundry Company** – Reduced solid waste generation by 150 tons, a 46% decrease, and installation of timers on plant lighting saved over 5000 Kwh of electricity.
- ***Presque Isle Power Plant** – Reduced hazardous waste generation by 73% (3386 lbs to 922 lbs), actively changing out mercury containing items, and over 36% of fly ash generated was beneficially reused.
- ***Sackner Group** – Eliminated all polyester scrap disposal, instead 348,000 lbs were recycled into machined color fibers, recycled 4,000 lbs of office related wastes, and 70% of scrap/trim has been reused.
- ***Siemens VDO Automotive** – Reduced construction debris by 95 tons since 1999 (95% reduction) and diverted 5 tons of electronic equipment through charity reuse.
- ***Steelcase Inc.** – Reduced paint filters disposal by 44%, hazardous waste decreased from 1771 tons to 866 tons (51%), and decreased VOC emissions from 570 tons to 375 tons (34%).
- ***T.E.S. Filer City Station** – Reduction in water usage of 2,010,016 gallons (6.6%), support for community based initiatives, and continuing to pursue beneficial use markets for fly ash.
- ***TriMedia Consultants** – Conducted office recycling program of paper, cardboard, batteries, and print cartridges. Also, reused 22 lbs of shredded paper per month for packing materials.
- ***Wacker Chemical** – Continued reduction of solvent use and recycling efforts resulted in a 40% net reduction of hazardous waste generated.

MBP3 PROGRAM ASSESSMENT

OVERVIEW OF PROGRAM SERVICES

Established in September 1996, the Michigan Business Pollution Prevention Partnership (MBP3) is a voluntary, non-regulatory pollution prevention (P2) program open to all Michigan businesses including; single facilities and corporations, institutions, municipalities, and associations. The purpose of the program is to publicly recognize Michigan businesses that voluntarily commit to and participate in P2 activities at their respective facilities. As business-related activities continue to evolve, the facilities that can eliminate their wastes will ultimately reap the benefits of a substantially improved bottom line. Those that choose not to be proactive environmentally may eventually find that they have been exceeded in the global marketplace by companies that have adopted a sustainable approach to business operations.

"The Michigan Business Pollution Partnership has given our company an opportunity to demonstrate to the public and the government authorities that we are sensitive to the environment and resources that we consume in delivering a high quality product to our customers without regulatory intervention. It has further allowed us the flexibility to focus our efforts on the areas where the greatest environmental improvement can be made with existing plant resources, which are not necessarily the same as regulatory driven environmental programs. We have been an enthusiastic supporter of both MBP3 and its founding principles."

Terence Filipiak
AutoAlliance International, Inc.

The MBP3 encourages Michigan businesses to implement innovative, cost-effective techniques for reducing/eliminating waste at the source (source reduction). In addition to waste minimization, the voluntary nature of the MBP3 provides an opportunity to demonstrate that pollution prevention is being practiced without regulatory mandates and/or enforcement activities imposed by the traditional regulatory bodies (federal, state and local).

The MBP3 program was originally developed specifically for Michigan businesses but has evolved to include a multitude of establishments, including health organizations, municipalities, academic institutions, and trade associations. The requirements for participation are simple to accommodate the demands of today's organizations yet this does not diminish the benefits that participation in the MBP3 program can achieve. Members carefully consider the many tangible and intangible outcomes prior to committing to their P2 goals and signed commitment to practice pollution prevention.

The Environmental Assistance Division actively promotes P2 throughout the state utilizing various voluntary partnerships, which target the automotive suppliers, lithographic printers, pulp and paper, metal finishers, marinas, and agricultural industries, among others. The MBP3 builds upon the success of these individual industry sectors by encouraging businesses to engage in P2 efforts and utilize the expertise obtained by participants in these complementary partnerships. By promoting P2 among its active partners and with various trade and professional associations, the Environmental Assistance Division (EAD) has been able to increase its marketing efforts, gain program credibility in the private sector, change perceptions about public/private partnerships, and continue to enhance the program to meet the needs of all current and prospective members. Partners are encouraged to share their individual P2 success stories through case studies and presentations at workshops and conferences.

The MBP3 offers businesses the opportunity for positive public outreach and community relations and recognizes their commitments to pollution prevention at their facilities. Besides receiving a certificate of participation signed by both the Governor and the Director of the Department of Environmental Quality (MDEQ), a new partner is provided a sample press release to publish in a local newspaper.

Aside from the recognition received, a business that successfully undertakes P2 improves and strengthens its ability to compete through improved operating efficiencies, reductions in raw materials and decreased waste streams. This can translate directly into financial savings for the participating companies. MBP3 partners benefit from information exchange among the members, which can be applied to addressing their own pollution prevention questions. Throughout the year, numerous email/fax announcements were forwarded to partners containing information on upcoming workshops/training opportunities, innovative technologies, pollution prevention ideas, internet resources (e.g. energy efficiency, waste minimization, sustainable practices and many others), and general program information. The positive results of increased public recognition of pollution prevention efforts can also be a major benefit of participating in the program. Community awareness of company accomplishments can lead directly increased sales, local, and regional partnerships, and educational outreach opportunities within your community. Technical support services and increased access to published technical information is also beneficial for anyone participating in the program.

PROGRAM DEVELOPMENT

MBP3 MEMBER WORKSHOPS

The first MBP3 workshop was held on August 10, 2001 at the Consumers Energy facility located in downtown Jackson. The workshop was deemed a success based on conversations and feedback by some of the 50 partners in attendance. The workshops provide an opportunity for partners to share company success stories, innovative pollution prevention ideas, and program benefits. The workshops also provide an excellent means for partners to network and often lead to independent dialogue among members. The agenda for the workshop included speakers on a wide array of topics including—Resource Management: A New Way of Thinking about Disposal Services and Contracts, Building Sustainability Criteria into an EMS, Communicating Environmental Best Practices Worldwide, How to Become a Michigan Great Printer Buyer, RETAP: Benefits and Promotion, ISO 14000 Key to Sound Environmental Decision Making, P2 at DTE Energy, and Setting Up and Maintaining a Recycle Program. Some benefits of participating in the workshop are as follows:

- The host facility is an active participant in the MBP3 along with the majority of the speakers. Partners gain an additional value-added component to participating in the partnership by learning from their peers at other companies.
- The networking opportunities are especially significant given that all participating members have become or are learning to be environmental stewards in their respective industries. Businesses develop contacts with other companies that are actively engaged in environmental stewardship activities.
- The information presented at the workshop is taken directly from experiences of the companies that reaped the benefits and allow for invaluable technology transfers through the question and answer portion of the workshop. Partners are encouraged to speak and share their expertise with the rest of the attending partners.

MBP3 WEB/E-MAIL SERVICES

Enhancements to the MBP3 Homepage and all other program related pages have made this a useful tool to MBP3 partners and those looking for good service and quick information on pollution prevention. The partnership website is featured at www.michigan.gov/deq, "Pollution Prevention," "Business Partnerships". Some of the electronic services available and improvements include:

- Continued links to MBP3 partner homepages. Partners with internet homepages are encouraged to have their respective homepage address placed on the MBP3 Website for quick access (approximately 85% of partners currently participate).
- The online partner's directory is updated as new partner's join or information changes. The MBP3 directory includes organization name, contact person, phone number, and county in an easy to use searchable format. In addition, a searchable map by county is included for identifying partners within a specific geographic area.
- Partners with electronic mail capabilities receive announcements, technical publication listings, and upcoming training opportunities as they are posted.
- Upcoming pollution prevention and environmental education events and issues are identified through the DEQ Calendar.
- Availability of previously submitted goals using an online database, to assist partners when selecting P2 goals. This database will also be available through the website for partners seeking new pollution prevention ideas.
- Electronic submittal of both the annual report and the registration pages has seen expanded usage this year. The electronic annual reporting form was used by over half of the respondents (67 members) during 2001's reporting period. This is an increase of over 100% from the 2000 totals.

MBP3 MARKETING STRATEGIES

Various outreach activities were conducted throughout the year to promote the MBP3 to Michigan industrial sectors, trade associations, and other organizations and group forums active in the state. The following is a list of formal presentations and mailings made during 2001:

- ❑ Presented program information to perspective companies and organizations upon request.
- ❑ Completed mailings to approximately five hundred (500) companies seeking pollution prevention information.
- ❑ Challenged existing partners to “sell” the program to their business contacts (e.g. vendors, suppliers, business partners).
- ❑ Worked together with the Clean Corporate Citizen program to recruit new members.
- ❑ Distributed MBP3 materials at various workshops and seminars attended by other representatives of the Environmental Assistance Division.
- ❑ Conducted an educational seminar to the Owosso Area Chamber of Commerce highlighting pollution prevention and voluntary partnership programs.
- ❑ Emailed or faxed 27 pollution prevention and environmental education announcements to partners.

RELATED ASSISTANCE PROGRAMS

ENVIRONMENTALLY PREFERRED PURCHASING (EPP) PROGRAM

How did environmental purchasing help our MBP3 partners reduce waste, increase environmentally sound purchases, and assist in meeting their pollution prevention goals? Easy, last year, several MBP3 partners contacted James Baker (800-662-9278), EPP coordinator, and requested assistance with their environmental purchases. Various partners requested information about a variety of environmentally friendly purchases, including; bio-diesel fuels, safer cleaners, and non-chlorine bleached paper products. This information has aided several partners in establishing new goals and initiating new purchasing programs.

Environmental Preferred Purchasing services are intended to encourage and increase the use of products and services that affect the environment less than competing products, taking into account raw materials, production, manufacturing, packaging, distribution, reuse, operation, maintenance, and disposal of the product.

"Environmentally preferable" refers to products or services that have a lesser or reduced effect on human health and the environment when compared with competing products or services that serve the same purpose. One main goal of this program is to promote the inclusion of environmental factors along with product safety, price, performance, and availability when any product is purchased.

There are several reasons for purchasing environmentally preferred products.

- ✓ Use EPP to benefit human health and the environment.
- ✓ Improve worker health and safety.
- ✓ Reduce operating and maintenance costs, including hazardous material handling and disposal costs.
- ✓ Reduce liabilities by purchasing less hazardous products.

The purchase of environmentally preferable products and services contributes to overall demand for such products and services. This ultimately helps promote the credibility and increase the number and quality of such products, making it easier and more economical for consumers to purchase environmentally preferable products and services.

MICHIGAN GREAT PRINT BUYERS

Located throughout Michigan, over 130 print shops participate in the Michigan Great Printers Project (MI-GPP); voluntarily working to minimize the impact on human health and the environment while producing a quality printed product for their customers. Members of MBP3 can help promote pollution prevention in the printing industry by becoming involved in the MI-GPP as a participating buyer of "Great Print" materials.

As buyers and designers of print materials, businesses are well aware of the importance and power of the printed piece. They make choices, which influence the quality, design, and cost of your printed materials. The sheer volume, energy, and materials involved in the printing process, from pre-press to disposal, have implications for air and water quality, waste disposal and energy use. There are, however, choices that can help diminish environmental impact in the print and publishing industry.

Let your printer know that environmental excellence is important to you by making a pledge to the Great Print Buyers initiative. Whether your pledge is verbal or written, as a Great Print Buyer you would support Great Printers when economically feasible and encourage other individuals and organizations to the same. To learn more about the MI-GPP or Great Print Buyers initiative, please visit the web site at www.michigan.gov/deq; click on "Pollution Prevention," then Business Partnerships - Great Printers. You may also contact Karen Edlin, MI-GPP program manager, via e-mail at edlink@michigan.gov or by telephone at 517-373-0604.

CLEAN CORPORATE CITIZEN (C3) PROGRAM

As more businesses become involved in MBP3 and begin to understand the benefits of P2, many partners actively pursue Clean Corporate Citizen (C3) designation as the next natural step. There are 36 MBP3 partners who have chosen to pursue or have achieved designation under the C3 Program. An advantage for MBP3 partners is that they have satisfied the P2 criteria of the C3 designation process. The Clean Corporate Citizen Program is based on the belief that Michigan businesses can demonstrate environmental stewardship and pollution prevention with less regulatory oversight, and still satisfy their regulatory responsibilities. These facilities have earned the benefit of greater regulatory flexibility and public recognition for their efforts.

The program requirements consist of a past history of environmental compliance, a functioning Environmental Management System (EMS), and an active pollution prevention program. This team-based system has led to documented cost savings, improved compliance, increased community awareness, and less environmental impacts for many C3 and MBP3 partners. For more information, you may contact Valerie Haan, C3 program manager, via e-mail at haanv@michigan.gov or by telephone at 517-241-0231.

ENVIRONMENTAL MANAGEMENT SYSTEMS

Strong business performance and effective environmental management are integral partners in today's competitive world. Creating a sustainable society through voluntary partnerships and environmental incentive programs is emerging as a viable alternative to the "command and control" regulatory regimes of the past. Michigan leads the nation in ISO 14001 certified Environmental Management Systems (EMS).

ISO 14001 is an international EMS standard developed by over 120 countries in 1996 to support one universally accepted standard. To register, 3rd party auditors are contracted to analyze the EMS documents and verify the "environmental footprint" of that site. Internal auditing ensures it remains an accurate tool that is updated to reflect real life conditions.

Common elements to all EMSs include:

- ✓ Management commitment to allocate resources, time and assign responsibilities;
- ✓ Signed policy statements that include a commitment to compliance, pollution prevention and continual improvement;
- ✓ Identification of potential environmental impacts from all products, by-products, goods or services;
- ✓ Establishing attainable goals and measurable target objectives;
- ✓ Procedures for work instruction, monitoring, measurement, training, corrective actions, document control;
- ✓ Management review and continual improvement.

"This certified environmental management system helped solidify our pollution prevention program efforts by bringing together a team of many different individuals to share ownership in the identification, training, and implementation of environmental improvements and energy saving activities. Resulting from this teamwork were cultural changes that led to many ideas and improvements brought on by the entire organization's (270 employees) efforts that surpassed the typical environmental managers ability given the typical regulatory workload and amount of hours we have to work on the "nice to do" lists. The real value I experienced was in realizing the benefits of involving an entire organization and what results can be achieved when the environmental manager is not the only person in the company "responsible" for the environmental program. Motivating, educating, and managing employees on their roles and responsibilities along with the right support from top management really opened up the window of P2 opportunities that I as the environmental manager never imagined existed."

Derek Humphries - Safety & Environmental Engineer
Yamaha Musical Products, Inc.

MBP3 and the EMS are great partners driving today's environmental performance! For more information, you may contact Kelie Caudell, EMS program manager, via e-mail at caudellk@michigan.gov or by telephone at 517-241-7969.

RETIRED ENGINEERS TECHNICAL ASSISTANCE PROGRAM (RETAP)

The Retired Engineer Technical Assistance Program (RETAP) is an example of a technical assistance program that is available to MBP3 partners. The RETAP offers, by request, confidential and non-regulatory waste assessments for businesses and institutions. Businesses with fewer than 500 employees take advantage of the services of the RETAP to identify opportunities for reducing or eliminating waste, increasing process efficiency, and lowering energy usage. RETAP assessors have considerable expertise in waste reduction and in many manufacturing sectors. Businesses receive a confidential report that identifies waste reduction recommendations specific for the facility. The recommendations may include suggestions that improve process or energy efficiency reduces liability, or decrease disposal costs.

Over 335 assessments have been conducted in Michigan since the beginning of the pilot program in 1994. The program is designed to maximize participation by offering these services at no additional cost to companies. Companies that have implemented RETAP recommendations have reported an average savings in materials and energy of over \$100,000 annually. The MBP3 anticipates an increase in pollution prevention success stories among its membership that take advantage of the benefits that RETAP assessments have to offer. For more information, you may contact Liz Sapio, RETAP program manager, via e-mail at sapioe@michigan.gov or by telephone at 517-335-0081.

"ARVCO Container is ISO 14001 registered and our Clean Corporate Citizen (C3) designation is pending. As part of this corporate effort, we have accessed the RETAP program. RETAP has become an integral partner with our efforts to control and reduce energy profile, solid waste generation, and water consumption. I highly recommend the RETAP services and commend its staff for their service and professional assistance.

ARVCO is a new member to the MBP3 program and we look forward to the networking opportunities, information exchange, and support this membership can provide. Partnerships like MBP3 serve to improve the strength of our business, as well as produce cooperative efforts between industry and government that is needed to accomplish the environmental goals of Michigan and its citizens."

David W. McDaniel - Environmental Manager
ARVCO Container

MBP3 Partners

<u>Organization Name</u>	<u>City</u>	<u>Contact Name</u>	<u>Phone</u>
Access Business Group	Ada	Mr. Rob Rempalski	(616) 787-6504
AEC - Manchester Stamping	Manchester	Mr. Kevin McKenna	(734) 428-8301
Alpha Plastics, Inc.	St. Louis	Mr. Kenneth L. Sangster	(989) 681-5781
American Electric Power-Nuclear Generation	Bridgman	Mr. Jon Harner	(616) 465-5901
ANR Pipeline Company	Detroit	Mr. Shane Yokom	(313) 496-5073
Applied Environmental	Ann Arbor	Ms. Anna Barnum	(734) 975-1970
ARVCO Container Corporation	Kalamazoo	Mr. David McDaniel	(616) 381-0900
Associated Petroleum Industries of Michigan	Lansing	Mr. John Griffin	(517) 484-8229
ATOFINA Chemicals, Inc.	Riverview	Mr. Larry Bickham	(734) 246-2028
Atomic Cleaning Systems LLC	Livonia	Mr. Eric Thompson	(248) 615-4400
AutoAlliance International, Inc.	Flat Rock	Mr. Terence Filipiak	(734) 782-7797
Automatic Spring Products Corporation	Grand Haven	Mr. Bob Van Dyke	(616) 842-7800
Baker Furniture 	Holland	Mr. Paul Brandsen	(616) 392-3181
BASF Corporation, Wyandotte Site	Wyandotte	Mr. Derek Hetes	(734) 324-5282
Battery Solutions Inc.	Brighton	Mr. Chris Sova	(810) 494-5010
Bear Truss Company	St. Louis	Mr. Larry Helman	(989) 681-5774
Behr Industries Corporation	Comstock Park	Mr. Mark Gillette	(616) 785-9400
Belle Maer Harbor	Harrison Township	Mr. Marc Howard	(810) 465-4534
Betz Industries	Grand Rapids	Mr. William Tellefsen	(616) 453-4429
BLDI Environmental & Safety Management	Grand Rapids	Mr. Joe Berlin	(616) 459-3737
Brownrigg Companies, Ltd.	Auburn Hills	Ms. Valissa L. Naganashe	(248) 373-5580
Cadillac Renewable Energy	Cadillac	Mr. Michael Venditto	(231) 779-8609
Campbell & Company	Allen Park	Ms. Andrea Miller	(313) 203-7184

Capital City Associates	Lansing	Mr. Bob Egan	(517) 484-7200
Capitol Group Governmental Consultants	Ada	Mr. William R. Lievense	(616) 682-9925
Cascade Engineering	Grand Rapids	Ms. Kelley Losey	(616) 975-4716
Chemical Management Associates	Plymouth	Mr. Pete Myhrum	(866) 243-6001
City of Wyoming - Clean Water Plant	Grandville	Mr. Myron Erickson	(616) 261-3562
C-Mar Products Inc.	Detroit	Mr. Marshall Reames	(313) 891-5533
Coldwater Board of Public Utilities	Coldwater	Mr. David McKay	(517) 279-9531
Collins & Aikman – Westland Operations 	Westland	Mr. Martin Mazurkiewicz	(734) 721-4858
Colonial Press, Inc.	Jackson	Mr. Morris Conklin	(517) 782-2737
Complete Builders, Inc.	Bancroft	Ms. Carol Inman	(989) 634-9154
Consumers Energy - Adrian Service Center	Adrian	Mr. Anthony Aurino	(989) 729-3259
Consumers Energy - BC Cobb Plant	Muskegon	Mr. Robert J. Bell	(231) 727-6242
Consumers Energy - JH Campbell Complex	West Olive	Ms. Michelle Kraenzlein	(616) 738-3233
Consumers Energy - JR Whiting Plant 	Erie	Mr. Thomas D. St. Bernard	(734) 848-2617
Consumers Energy - Parnall Rd. Office Complex 	Jackson	Mr. Doug Crips	(517) 788-7148
Consumers Energy, J.C. Weadock Plant	Essexville	Mr. Jeff Caverly	(989) 891-3328
Corsair Engineering, Inc.	Flint	Mr. Bruce L. Simmons, Sr.	(810) 234-3664
Crystal Flash	Grand Rapids	Ms. Carol Anderson	(616) 365-0012
Cyltec LLC	Tecumseh	Ms. Dominica Rojas-Dixon	(517) 423-3200
Delphi Automotive Systems 	Grand Rapids	Mr. Brent A. Ketzenberger	(616) 246-2151
Delta College	University Center	Mr. Jay Van Houten	(989) 686-9315
Demmer Corporation - Delta Plant 	Lansing	Mr. Chris Carrier	(517) 321-5399
DENSO Manufacturing Michigan, Inc. 	Battle Creek	Mr. Mike Myszka	(616) 965-3322
Depor Industries, Inc.	Troy	Mr. Rick Waitz	(248) 362-3900
Detroit Edison - Fermi 2 Plant 	Newport	Ms. Elvia Ankawi	(734) 586-4883
Detroit Edison Company	Detroit	Ms. Patty Ireland	(313) 897-0714

DeWitt Barrels 	Grand Rapids	Mr. Michael DeWitt	(616) 459-2660
Donnelly Corporation	Holland	Ms. Susan Paaue	(616) 786-6064
Dow Corning Midland Plant	Midland	Mr. Richard Rausch	(989) 496-5122
DuPont Automotive, Mt. Clemens Site 	Mt. Clemens	Ms. Denise Trabbic-Pointer	(810) 468-9087
Eagle Ottawa - Rochester Hills, Ltd.	Rochester Hills	Mr. Bob Elmouchi	(248) 853-3122
Eagle Ottawa Leather Company	Grand Haven	Mr. Scott Braspenninx	(616) 842-4000
East Jordan Iron Works	East Jordan	Mr. Richard K. Hodge	(231) 536-2261
Eaton Aeroquip Inc.	Jackson	Mr. George Hill	(517) 787-8121
Eaton Corporation	Rochester Hills	Mr. Bill Burlingame	(248) 608-7347
Eaton Corporation	Saginaw	Mr. Bruce Barlow	(989) 758-7221
Eaton Corporation PSCO	Ann Arbor	Mr. Vincent Paige	(734) 623-5346
Electrical Design and Control	Troy	Mr. Daniel Mack	(248) 280-0630
Elm Plating Company	Jackson	Ms. Meagan Mohney	(517) 782-8161
Envirologic Technologies, Inc.	Kalamazoo	Ms. Wendy Schlett	(616) 342-1100
Environmental Health Resources Inc.	Grand Rapids	Ms. Deborah Alderink	(616) 942-5916
ESCO Company Limited Partnership	Muskegon	Mr. Bruce Katje	(616) 727-6459
Ford Motor Company - ATNPC 	Livonia	Ms. Kristen Cox	(734) 458-0902
Ford Motor Company - Livonia Transmission	Livonia	Ms. Barbara Babut	(734) 523-4526
Foundry Association of Michigan	Lansing	Mr. Bob Egan	(517) 484-3400
Four Winns, Inc.	Cadillac	Ms. Krista Haapala	(231) 779-2355
General Motors - Orion Assembly Center	Orion	Mr. Michael Schafran	(248) 377-5298
General Motors - PCC Validation 	Pontiac	Ms. Mary Morgan	(248) 753-6379
General Motors Powertrain - Bay City Plant	Bay City	Mr. Mike Switala	(989) 894-7273
General Motors Powertrain - Flint Components Operations	Flint	Mr. Kevin Jones	(810) 236-7752
General Motors Powertrain - Livonia Engine 	Livonia	Mr. Charles Toney	(734) 523-0374
General Motors Powertrain - Pontiac East Assembly	Pontiac	Mr. Tom Vallone	(248) 452-2781

General Motors Powertrain – Romulus Engine Plant	Romulus	Mr. Tom Rang	(734) 595-5419
General Motors Powertrain – Romulus Transmission Plant	Romulus	Ms. Sandy Kramarich	(734) 595-5736
General Motors Powertrain - Saginaw Malleable Plant	Saginaw	Ms. Lori Gandy	(989) 757-1067
General Motors Powertrain – Saginaw Metal Castings	Saginaw	Mr. Ray Ikka	(989) 757-1473
General Motors Powertrain – Warren Transmission 	Warren	Mr. Asefaw Teclegiorgis	(313) 252-0791
General Oil Company, Inc.	Livonia	Ms. Bonnie Hollander	(734) 266-6500
Genesee Power Station	Flint	Mr. David Thibeault	(810) 785-4144
Genesys Health System	Flint	Mr. Scott W. Cruzen	(810) 742-7700
Gil-Mar Manufacturing Co.	Canton	Mr. Stanley Ray	(734) 459-7986
Grayling Generating Station 	Grayling	Mr. Parish Geers	(989) 348-4575
Great Lakes Contracting	Grand Haven	Mr. Kenneth Osika	(616) 846-8888
Great Lakes Gas Transmission Company 	Troy	Mr. Bruce Bendes	(248) 205-7674
Harry Major Machine & Tool	Clinton Township	Mr. Rob Lester	(810) 493-4028
Haworth, Inc.	Holland	Mr. Jim Kozminski	(616) 393-1533
Hazekamp Meats	Muskegon	Mr. David Hazekamp	(231) 773-6425
Hemlock Semiconductor	Hemlock	Mr. Kevin Lamb	(989) 642-5201
Herman Miller, Inc.	Zeeland	Mr. Willie Beattie	(616) 654-3640
Huron, Inc.	Lexington	Mr. Bob Conely	(810) 359-5344
Inland Waters Pollution Control, Inc.	Detroit	Ms. Susan Johnson	(313) 841-5800
International Foam and Trim	Jackson	Mr. Mike Fancher	(517) 787-3650
Irwin Seating Company	Grand Rapids	Mr. Kevin Brower	(616) 574-7443
Jan's Professional Drycleaners	Clio	Ms. Jan Barlow	(810) 687-7590
Keykert USA	Webberville	Ms. Kathy Gurnee	(517) 521-5286
Knoll Inc. 	Grand Rapids	Ms. Kathy Jo Boerma	(616) 957-7298
Magni Industries, Inc.	Detroit	Mr. Mike Fronczak	(313) 843-7855
Marathon Ashland Petroleum LLC	Detroit	Mr. David Linington	(313) 297-6341

March Coatings - Plant 2 	Brighton	Mr. Mark Tomasik	(810) 229-6464
March Coatings, Inc. 	Brighton	Mr. Mark Tomasik	(810) 229-6464
Marine Pollution Control Corporation	Detroit	Mr. Michael Snyder	(313) 849-2333
Mark IV Automotive 	Big Rapids	Mr. Jamie Pritchard	(231) 796-2691
Matrix System Automotive Finishes, Inc.	Walled Lake	Mr. Kent Zimmermann	(248) 360-8899
Mayco Plastics, Inc.	Sterling Heights	Mr. Chris Miller	(586) 803-6019
McCormick Enterprises, Inc.	Delton	Ms. Tina Boreham	(616) 623-2582
Memorial Healthcare Center	Owosso	Mr. Pier-George Zaroni	(989) 729-4852
Meridian Automotive Systems – Paint Facility	Ionia	Mr. Brian Head	(616) 527-1220
Meridian Automotive Systems – Plant 1	Kentwood	Ms. Layali Schuster	(616) 949-1250
Meridian Automotive Systems – Plant 5	Kentwood	Ms. Layali Schuster	(616) 949-1250
Meridian Automotive Systems – Plant 7	Kentwood	Ms. Layali Schuster	(616) 949-1250
Meridian Automotive Systems – Canton	Canton	Mr. Derrick Register	(734) 394-2576
Meridian Automotive Systems - Detroit	Detroit	Mr. Derrick Register	(313) 931-1400
Meridian Automotive Systems - Ionia	Ionia	Mr. Chad Murphy	(616) 527-1220
Michigan Boating Industries Association	Livonia	Mr. Van W. Snider, Jr.	(734) 261-0123
Michigan Chemical Council	Lansing	Ms. Cynthia Zwick	(517) 372-8898
Michigan Institute of Laundering and Drycleaning	Lansing	Mr. Lou Monticello	(517) 337-2909
Michigan Seat Company	Jackson	Mr. Mike Fancher	(517) 787-3650
Mid-West Instrument	Sterling Heights	Mr. Jim Lueck	(810) 254-6500
MWP Inc. - Pleuco Technologies Division	Holland	Mr. Gary Spear	(616) 772-3711
Ondeo Nalco, Jackson Plant	Jackson	Mr. Matt Bero	(517) 782-8262
Pfizer Global Manufacturing	Holland	Mr. John Voreis	(616) 392-2375
Pfizer Global Research and Development 	Ann Arbor	Ms. Anita Cooney	(734) 622-3780
Pharmacia & Upjohn Company	Kalamazoo	Mr. Jack Balgenorth	(616) 833-4320
Pioneer Foundry Company, Inc.	Jackson	Mr. Bob Lefere	(517) 782-9469

Polar Environmental Service Corporation	Ferndale	Mr. Jamal Haider	(248) 546-6100
RMT, Inc.	Ann Arbor	Ms. Jeannine Myers	(734) 971-7080
Ronningen Research & Development Co.	Vicksburg	Ms. Elizabeth R. Thulin	(616) 649-0520
Sackner Products	Grand Rapids	Mr. Michael M. Pickem	(616) 957-9300
Schefenacker Vision Systems USA, Inc.	Marysville	Ms. Tracey Mellenthin	(810) 388-2434
Siemens Automotive Corporation	Auburn Hills	Mr. Samuel A. Seabright	(248) 253-2655
Solutia, Inc.	Trenton	Ms. Marie M. VanHoeck	(734) 671-4613
SQS, Inc.	Canton	Mr. Gene A. Cieply	(734) 459-3800
Steelcase, Inc.	Grand Rapids	Mr. Steve Kooy	(616) 248-7390
Sunshine Prairie Farm	Delton	Mr. Tom Guthrie	(616) 623-2261
T.E.S. Filer City Station 	Filer City	Mr. Larry Roels	(231) 723-6573
TAC Manufacturing, Inc. 	Jackson	Mr. Todd Bingman	(517) 789-7000
Taplin Environmental Contracting Corporation	Kalamazoo	Mr. Brian W. Borguno	(616) 375-9595
Taylor Building Products	West Branch	Mr. Bruce Kempel	(989) 345-8215
Tesco Engineering	Auburn Hills	Mr. Philip Postma	(248) 836-5153
The Traverse Group	Ann Arbor	Ms. Julie Stinedurf	(734) 747-9301
TriMedia Consultants	Marquette	Ms. Lisa Coombs-Gerou	(906) 228-5125
United States Postal Service, Lansing Branch	Lansing	Ms. Mary Stefanick	(517) 337-8793
Universal Coating, Inc.	Mt. Morris	Ms. Julie Conger	(810) 686-5934
Vico Products Company	Plymouth	Ms. April Klein	(734) 453-3777
Visteon Automotive Systems - Sheldon Road Plant 	Plymouth	Ms. Kathryn Cunningham	(734) 451-9370
W.E.S. Corporation	Okemos	Mr. David Woltz	(517) 347-3668
Wacker Silicones Corporation	Adrian	Mr. Robert O. Sullivan	(517) 264-8361
Wisconsin Electric Power - Presque Isle Plant 	Marquette	Mr. Leslie D. Kowalski	(906) 226-5757
Yamaha Musical Products	Grand Rapids	Mr. Derek Humphries	(616) 575-1320

 - Denotes Clean Corporate Citizen Designation



This report describes the benefits and requirements of the Michigan Business Pollution Prevention Partnership (MBP3) program. For complete information on the MBP3 program including registration, please contact:

The Michigan Business Pollution Prevention Partnership
Environmental Assistance Division
800-662-9278
P.O. Box 30475
Lansing, Michigan 48909

<http://michigan.gov/deq>, then Pollution Prevention – Business Partnerships
E-mail: spencejl@michigan.gov

Printed by authority of 1994 PA 451.

Michigan Department of Environmental Quality 

The Michigan Department of Environmental Quality (MDEQ) will not discriminate against any individual or group on the basis of race, sex, religion, age, national origin, color, marital status, disability, or political beliefs. Questions or concerns should be directed to the MDEQ Office of Personnel Services, P.O. Box 30473, Lansing, MI 48909.