

WISCONSIN BIOFUELS AND ALTERNATIVE FUEL USE REPORT

April 2006 Annual Report



**Department of Administration
Stephen Bablitch, Secretary**

INTRODUCTION

As required by s. 16.045 (5) Wis. Stats. (Attachment 1), the Department of Administration (DOA) is submitting this *Wisconsin Biofuels and Alternative Fuel Use Report*.

Since the passage of s. 16.045 (5), in 1994, state government has increased its purchases of gasoline* blended with ethanol from approximately 235,000 gallons to 1,409,672 gallons in 2006. In 2006, almost 96 percent of the gasoline purchased by the state (including reformulated gasoline using ethanol as the oxygenate) contains a 10 percent blend of ethanol. This is a new record. Previously, the peak year for state purchases of gasoline containing a 10 percent blend of ethanol was 1997 when 91.5 percent of the gasoline purchased by the state contained ethanol.

State government and other fleet operators also purchased minor amounts of propane, compressed natural gas and ethanol (for use as an E-85 fuel) to fuel their alternative fueled vehicles. For the state, ethanol use in gasohol and reformulated gasoline (RFG) has increased from 13.3 million gallons in 1994 to approximately 123 million gallons in 2005 (preliminary estimate).

STATE FLEET GASOHOL ACQUISITION AND DISTRIBUTION

S. 16.045 (5) Wis. Stats., enacted in April 1994, required state agencies, to the extent feasible, to purchase and use gasohol or alternative fuels in the state fleet.

In 2006 of the 1,473,572 gallons of gasoline contracted for by the state, 1,253,972 gallons (85.1 percent) were for gasohol. Also, in southeastern Wisconsin, as required by federal law, the state contracted for 155,700 gallons of reformulated gasoline (10.6 percent) which contained ethanol as the oxygenate. This brings the percentage of gasoline, which contains ethanol, contracted for by the State of Wisconsin in 2006 to 95.7 percent, which is a new record.

* In this report, gasoline refers to leaded, unleaded, reformulated and gasohol. Gasohol refers to a blend of 90 percent conventional (leaded and unleaded but not reformulated) gasoline with 10 percent ethanol.

State gasoline usage by fuel type is shown below.

GASOLINE DELIVERIES CONTRACTED FOR BY THE STATE OF WISCONSIN, 1994-2006						
Year	Gasohol (Gallons)	Unleaded (Gallons)	Regular (Gallons)	RFG* (Gallons)	Total (Gallons)	% With Ethanol
1994	235,000	NA	NA	NA	NA	NA
1995	1,236,015	155,700	30,030	108,000	1,529,745	87.9%
1996	1,371,100	139,800	7,050	108,500	1,626,450	91.0%
1997	1,477,034	144,400	5,600	128,500	1,755,534	91.5%
1998	1,343,050	167,150	5,300	138,000	1,653,500	89.6%
1999	1,246,100	198,990	4,400	136,500	1,585,990	87.2%
2000	1,128,000	182,100	7,900	136,500	1,454,500	86.9%
2001	1,054,600	210,100	7,900	137,500	1,410,100	84.5%
2002	1,102,300	269,900	5,100	164,200	1,541,500	82.2%
2003	1,011,208	270,195	5,800	126,500	1,413,703	80.5%
2004	951,908	377,865	3,500	145,700	1,478,973	74.2%
2005	1,261,150	227,600	0	155,700	1,644,450	86.2%
2006	1,253,972	63,900	0	155,700	1,473,572	95.7%

* RFG is reformulated gasoline. Federal law requires its sale in southeastern Wisconsin. Most Wisconsin RFG contains ethanol.

STATE AGENCY ACTIONS TO ENCOURAGE ALTERNATIVE FUEL USAGE

On March 1, 2006 Governor Doyle issued Executive Order #141 relating to increased utilization of renewable fuels in vehicles owned and operated by the State of Wisconsin (Attachment 2).

The Executive Order requires all state agencies to reduce the use of petroleum-based gasoline in the state's vehicle fleet by 20 percent by 2010 and by 50 percent by 2015, and reduce the use of petroleum-based diesel fuel by those vehicles 10 percent by 2010 and 25 percent by 2015. To do this, vehicles will be filled with ethanol blend gasoline, E-10, E-85, or biodiesel as much as possible.

To help implement the order, the Department of Administration (DOA) will also develop an awareness campaign designed to ensure all flex fuel vehicles in the state's fleet are clearly identified and state employees are aware of where E-85 refueling stations are located.

Governor Doyle also directed DOA and the Department of Agriculture, Trade, and Consumer Protection (DATCP) to look into how the state can attract more E85 pumps, making the use of this fuel even more convenient for state employees and the general public.

DATCP is currently working on devising a plan to efficiently and accurately report information on refueling facilities in the state where alternative fuels are available. The last publication of this information was made available December 2004 and is now outdated. The new publication will be made available to state employees for use when utilizing state vehicles and for their personal use. This information is also provided to the general public. DATCP and DOA aim to publish the next brochure, per the direction of the Executive Order, and anticipate the information will be available by June 30, 2006.

STATE WIDE ALTERNATIVE FUEL USE

For 2001, 2002, 2003, 2004 and 2005 the Wisconsin Department of Revenue's (DOR) estimates of the liquid propane gas (LPG), equivalent gallons of compressed natural gas, and the Department of Administration's estimates of the ethanol sold for motor fuel use in Wisconsin are shown in the table below.

WISCONSIN ALTERNATIVE MOTOR FUEL CONSUMPTION						
(1,000 of Gallons)						
Fuel	2001 Gallons	2002 Gallons	2003 Gallons	2004 Gallons	2005 Gallons	Percent Change 04 to 05
<i>LPG</i>	4,569	3,963	3,815	3,649	3,010	-17.5%
<i>CNG</i>	305	260	257	257	208	-19.1%
<i>Ethanol</i>	85,939	88,224	100,923	102,539	122,955	19.9%

Sources: LPG & CNG, Department of Revenue; Ethanol, Department of Administration

Prior to 1995, ethanol was primarily used to make gasohol (one part ethanol and nine parts gasoline). However, starting January 1, 1995, the federal government mandated that reformulated gasoline (RFG) be sold in six counties in Southeastern Wisconsin (Kenosha, Milwaukee, Ozaukee, Racine, Washington and Waukesha). Reformulated gasoline requires an oxygenate which can be supplied by methyl tertiary butyl ether (MTBE), ethyl tertiary butyl ether (ETBE) or ethanol.

MTBE contains no ethanol. ETBE contains approximately 5.4 percent ethanol. In 1995, ethanol based RFG contained 10 percent ethanol in the winter and 7.4 percent ethanol in the summer (May 1 through September 15). However, starting in 1996, ethanol based RFG could contain 10 percent ethanol throughout the entire year.

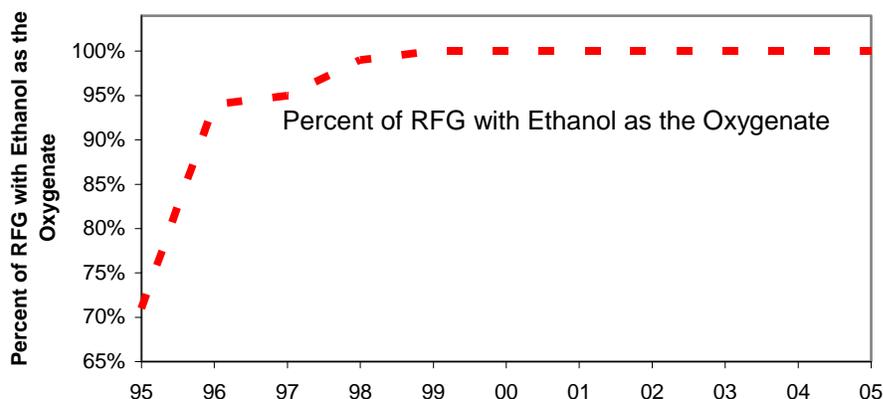
In 1996, in Wisconsin, the RFG ethanol blend was 10 percent for all marketers through July. However, for economic reasons in August and September some of the RFG ethanol blend marketed in Wisconsin was

reduced to 7.7 percent. From October through December, the ethanol blend for *most* RFG marketed in Wisconsin was reduced to 5.7 percent because of the increased cost of ethanol.

In 1997, in Wisconsin, the ethanol blend in most reformulated gasoline continued to be 5.7 percent from January through April. In May 1997, the ethanol blend in most reformulated gasoline sold in Wisconsin increased to 10 percent and has remained at 10 percent.

In 1995, 1996, 1997 and 1998, ethanol supplied the oxygenate for approximately 71 percent, 94 percent, 95 percent and 99 percent, of the reformulated gasoline sold in Wisconsin. Starting in 1999, ethanol has supplied the oxygenate for 100 percent of the reformulated gasoline sold in Wisconsin, refer to the following graph.

**Percent of RFG Sold in Wisconsin
with Ethanol as the Oxygenate, 1995-2005**

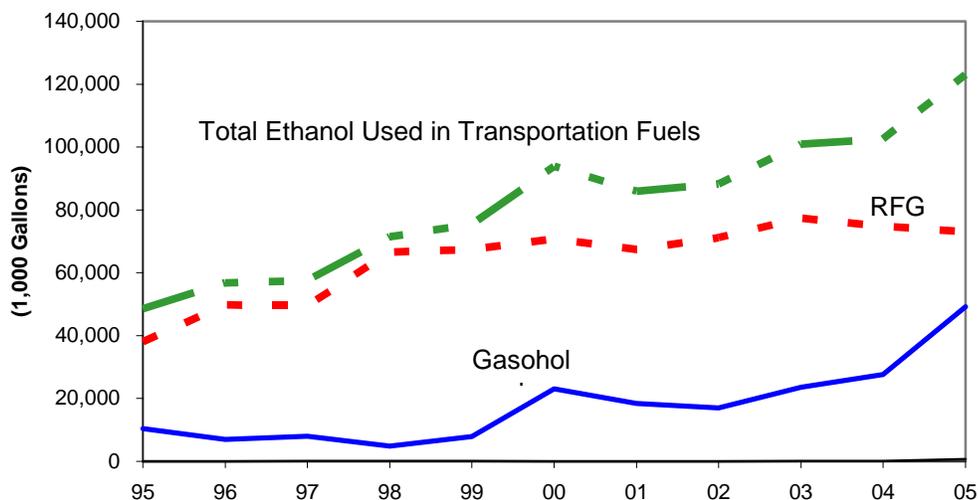


Ethanol is also used in producing ETBE which can be used as an oxygenate in producing RFG. From January 1995 through April 1995, between 22 to 27 million gallons of RFG oxygenated with ETBE were shipped into Wisconsin. In May 1995, Wisconsin use of ETBE was discontinued and the RFG market share shifted to ethanol blends. This shift away from selling reformulated gasoline made with ETBE (or MBTE) in Wisconsin occurred because of the adverse publicity and consumer reaction to ether based reformulated gasoline in Wisconsin.

In 2005, DOA estimates that the amount of ethanol used in making RFG for sale in Wisconsin was approximately 73.1 million gallons. In addition, approximately 49.2 million gallons of ethanol were blended with gasoline for sale as gasohol, with approximately 0.7 million gallons of ethanol used in E-85 fuel. This brings total ethanol used as a motor fuel to approximately 123 million gallons in 2005. This compares with 102.5 million gallons used in 2004. The following graph shows how the

amount of ethanol used in RFG and gasohol has changed over time. The total includes a small amount of ethanol used in producing E-85.

Wisconsin's Ethanol Use by Fuel Type, 1995-2005



Known E-85 users in Wisconsin include State Government, U.S. General Services Administrations (GSA) and U.S. Postal Service. DOA's 2005 purchase of E-85 fuel totaled 11,424 gallons. The E-85 fuel purchased by DOA can also be used to fuel E-85 vehicles operated by the Departments of Natural Resources (DNR), Transportation (DOT) and GSA.

By the end of April 2006 Wisconsin will have a total of 29 public and private E85 refueling stations as compared to 10 at the same time last year. DOA has two E-85 refueling sites, which are located in Madison and Milwaukee. UW-Milwaukee also has an E85 refueling station located on Kenilworth Avenue near the University of Wisconsin Milwaukee. In addition, Wisconsin has 25 E-85 public refueling locations, which DOT, DOA, UW-Milwaukee, UW Eau Claire and GSA use (Attachment 3). As of April 2006, 3 stations were temporarily closed, due to equipment and pricing issues. The estimated statewide consumption of E-85 at the private stations is approximately 786,754 gallons in 2005. This is over a 7-fold increase from 2004 due to an increase in E85 stations, as well as an increase in volume reports from stations.

In February 2005, the University of Wisconsin-Madison began using a B20 blend of 80% ultra-low sulfur diesel and a 20% soybean-based biodiesel blend of fuel in their diesel fleet. In 2005, UW-Madison consumed 48,657 gallons of B20. In 2006, the Environmental

Protection Agency will require the use of ultra low diesel fuel by state and federal fleets. The University of Wisconsin-Madison has been proactive in complying with the requirements ahead of schedule. UW-Milwaukee is also another user of biodiesel fuel. In 2005, 2,933 gallons of a B20 blend was consumed by UW-Milwaukee.

This model year, state government anticipates acquiring 46 E85 flexible fuel passenger vehicles. No CNG or LPG vehicles will be purchased this year. The GSA anticipates purchasing 140 Model Year (MY) 2006 E-85 vehicles. This is almost five times more than GSA purchased during the MY 2005. Additionally the GSA has also decided to add 20 new MY 2006 hybrid vehicles for use in Wisconsin. The GSA anticipates this will allow it to maintain its Wisconsin alternative fuel fleets at 678 vehicles.

There has been an improvement by the fleet managers in reporting of type, quantity and use of fleet vehicles. As a result of more consistent reporting we are able to give more accurate numbers on the current status of the alternative fuel fleet in the chart below. A breakdown of the alternative fuel fleet vehicles according to the state agency operating the vehicle is available in Attachment 4.

State of Wisconsin Fleet Summary
(as of March 23, 2006)

Fuel Type	Sum
Unleaded	3,913
Diesel	731
Ethanol (E-85) Flexible Fuel	1,660
Compressed Natural Gas (CNG)	111
Propane (LPG)	10
Hybrid Electric	4
TOTAL	6,429

The total number of E-85 vehicles currently operated by state government is 1,660, compared to 1,189 last year. The State of Wisconsin now operates 111 CNG vehicles (55 dedicated and 56 bi-fuel). The number of LPG vehicles was decreased by 1, and there are now 10 LPG vehicles (4 dedicated and 6 bi-fuel) in the state. Bi-fuel CNG and LPG vehicles also run on gasoline.

In 2004, s. 16.045 (5) was amended to include the requirement that information on the use of electric hybrids in Wisconsin be included in

this report. Currently, the State of Wisconsin has 4 hybrid vehicles available for state employee use.

UW-Milwaukee's fleet of 83 vehicles includes 70 alternative fueled vehicles. The mix of alternative fueled vehicles consists of 44 CNG vehicles (27 dedicated and 17 bi-fuel), 20 ethanol (E85 FFV) vehicles and 6 diesel vehicles that use biodiesel. UW-Milwaukee plans to convert the remaining 13 vehicles in its fleet to alternative fuels when acceptable replacement models exist. To improve ease of refueling its CNG fleet, UW-Milwaukee installed a CNG refueling station.

In 2005, the Department of Transportation began providing DOA with a breakdown of the vehicles registered in Wisconsin by fuel type. This information is useful in providing a detailed look at the composition of all the vehicles registered in Wisconsin. The information will also give DOA the ability to evaluate the current market and evaluate ways to target these vehicles and increase the consumption of alternative fuels in the state. The information provided below is as of December 31, 2005.

Vehicles Registered in Wisconsin by Fuel Type

Fuel Type	Sum
Unleaded	4,676,900
Diesel	146,406
Ethanol (E-85) Flexible Fuel	109,848
Compressed Natural Gas (CNG)	117
Propane (LPG)	115
Hybrid Electric	5,862
Other *	432,552
TOTAL	5,371,800

*Fuel type left blank, coded as exempt or as a miscellaneous fuel type.

Attachment 5 provides additional information on state actions to encourage the use of alternative fueled vehicles in Wisconsin.

Committee members with questions are encouraged to contact Kimberly Walker, Administrator, Division of Energy (608) 261-6357.

ATTACHMENT 1

Wis. Stat. 16.045 Gasohol, alternative fuels, and hybrid-electric

vehicles. (1) In this section:

(a) “Agency” means an office, department, independent agency, institution of higher education, association, society or other body in state government created or authorized to be created by the constitution or any law, which is entitled to expend moneys appropriated by law, including the legislature and the courts, but not including an authority created in ch. 231, 232, 233, 234, 235, or 237.

(b) “Alternative fuel” means any of the following fuels the use of which the department of natural resources finds would improve air quality as compared to the use of gasoline or petroleum-based diesel fuel:

1. Bio-diesel fuel.
2. Methanol.
3. Ethanol.
4. Natural gas.
5. Propane.
6. Hydrogen.
7. Coal-derived liquid.
8. Electricity.
- 8m. Solar energy.
9. Fuel derived from biological material.
10. Any other fuel except gasohol that the department of natural resources finds to be composed substantially of material other than petroleum, the use of which would yield substantial environmental benefits.

(c) “Bio-diesel fuel” means fuel derived from soybean oil with glycerine extracted from the oil, either in pure form or mixed in any combination with petroleum-based diesel fuel.

(d) “Gasohol” means any motor fuel containing at least 10% alcohol the use of which the department of natural resources finds would improve air quality as compared to the use of gasoline or petroleum-based diesel fuel.

(e) “Hybrid-electric vehicle” means a vehicle that has a chemically fueled internal combustion engine which is capable of operating on gasoline, one or more alternative fuels, or diesel fuel, or by means of a gas turbine, and is also equipped with an electric motor and an energy storage device.

(2) The department shall, whenever feasible, require agencies to store no motor fuel except gasohol or alternative fuel in facilities maintained by the agencies for the storage of fuel for and the

refueling of state-owned or state-leased vehicles. This subsection does not authorize construction or operation of such facilities.

(3) The department shall, by the most economical means feasible, place a copy of the current list of gasohol and alternative fuel refueling facilities received from the department of agriculture, trade and consumer protection under s. 100.265 in each state-leased motor vehicle that is stored on state property for more than 7 days and in each state-owned motor vehicle. The department shall also make reasonable efforts to inform state officers and employees whose responsibilities make them likely to be using motor vehicles in connection with state business of the existence and contents of the list maintained under s. 100.265 and of any revisions thereto. The department may distribute the list or information

relating to the list with salary payments or expense reimbursements to state officers and employees.

(4) The department shall require all state employees to utilize hybrid-electric vehicles or vehicles that operate on gasohol or alternative fuel for all state-owned or state-leased motor vehicles whenever such utilization is feasible. However, the department shall not lease or purchase any hybrid-electric vehicle, or authorize

the lease or purchase of any hybrid-electric vehicle, unless the manufacturer certifies to the department that final assembly of the vehicle occurred in the United States.

(5) The department shall encourage distribution of gasohol and alternative fuels and usage of hybrid-electric vehicles or vehicles that operate on gasohol or alternative fuels by officers and employees who use personal motor vehicles on state business and by residents of this state generally. The department shall report to the appropriate standing committees under s. 13.172 (3) concerning distribution of gasohol and alternative fuels and usage of hybrid-electric vehicles and vehicles that operate on gasohol or alternative fuels in this state, no later than April 30 of each year.

History: 1993 a. 351; 1995 a. 27; 1997 a. 73; 2001 a. 16; 2003 a. 311.

ATTACHMENT 2

Executive Order #141

Relating to Increased Utilization of Renewable Fuels in Vehicles Owned and Operated by the State of Wisconsin

WHEREAS, the United States is now dependent on foreign oil imports, thereby posing a serious threat to the energy security of Wisconsin and our nation; and

WHEREAS, the major oil companies have dramatically increased the price of a tank of gas this year, driving up the cost of operating gasoline fueled vehicles; and

WHEREAS, the increased use of agricultural renewable fuels such as ethanol and biodiesel will reduce our dependence on imported oil, will reduce the vulnerability of the State of Wisconsin and Wisconsin's middle class and working families to the pricing vagaries of the major oil companies, and will create high paying and family supporting jobs in Wisconsin; and

WHEREAS, there are available in ever increasing volumes cleaner-burning, sustainable alternatives to conventional fuels that can be produced domestically; and

WHEREAS, the burning of conventional transportation fuels such as gasoline and diesel by motor vehicles contributes to air pollution, health problems and increased carbon emissions that have been linked to global climate change; and

WHEREAS, there are numerous other important economic development benefits resulting from the use of renewable fuels, including but not limited to strengthening our agricultural and forestry sectors, improving net farm income, improving our rural economies, and creating new renewable fuels industry related jobs; and

WHEREAS, there are currently at least 25 public, government and private renewable fuel refueling facilities in Wisconsin; and

WHEREAS, transportation fuel costs represent a substantial operating expense for state government and Wisconsin taxpayers; and

WHEREAS, Wisconsin state government should "lead by example" in using renewable fuels to the maximum extent feasible so as to encourage individuals, businesses and other levels of government to do the same;

NOW, THEREFORE, I, JIM DOYLE, Governor of the State of Wisconsin, by virtue of the authority vested in me by the Constitution and Laws of the State of Wisconsin, do hereby:

1. Direct the Department of Administration to require, through its fleet management policy, that all state agencies reduce the use of petroleum-based gasoline in state-owned vehicles by twenty percent (20%) by 2010 and by fifty percent (50%) by 2015, and reduce the use of petroleum-based diesel fuel by those vehicles ten percent (10%) by 2010 and twenty five percent (25%) by 2015; and
2. Direct the Department of Administration to develop an awareness plan designed to facilitate usage of renewable fuels in the State's flex fuel vehicle fleet. This program shall ensure:
 1. All flex fuel vehicles in the State's fleet shall be identifiable; and
 2. All state employees driving flex fuel vehicles shall be made aware of the renewable fuel refueling stations in the location of their destination; and
 3. All state employees shall strive to use renewable fuels when operating flex fuel and diesel powered vehicles in the fleet, whenever practical and cost effective; and
3. Direct the Secretaries of the Department of Administration and the Department of Agricultural, Trade and Consumer Protection to actively pursue the establishment of additional renewable fuel refueling facilities at public retail outlets.

IN TESTIMONY WHEREOF, I have hereunto set my hand and caused the Great Seal of the State of Wisconsin to be affixed. Done at the Capitol in the City of Madison this first day of March, in the year two thousand six.

JIM DOYLE
Governor

By the Governor:

DOUGLAS LA FOLLETTE
Secretary of State

ATTACHMENT 3

WISCONSIN



Drivers are encouraged to contact any station they plan to visit to ensure availability, verify location and check on hours of operation

Eau Claire Travel Stop

2232 Otter Rd.
Altoona, WI 54720
(715) 830-1129

Belmont Quick Stop, LLC.

355 Highland Street
Belmont, WI 53510
(608) 553-5521

Renew E85, LLC

W2018 State Road 21
Berlin, WI 54923
(920) 216-1614

Cenex Ampride

203 West Cottage Grove Rd., Box 277
Cottage Grove, WI 53527
(608) 251-9010

Mega Pick 'n Save

2615 N Clairemont Ave.
Eau Claire, WI 54701
(715) 836-6342

**Mega Express
(COMING SOON!)**

5511 HWY 93
Eau Claire, WI 54701
(715) 836-8710 x1149

Kwik Trip

3721 E College Ave
Grand Chute, WI 54915
(608) 793-6433

Kwik Trip

1411 E. Sumner St.
Hartford, WI 53027
(262) 673-7130

Rapid Mart

5720 E. Highway 60
Hartford, WI 53027
(920) 216-1614

Renew E85, LLC

2481 Lineville Rd.
Howard, WI 54313
(920) 216-1614

Stop-N-Go

6202 Schroeder Rd.
Madison, WI 53711
(608) 274-3377

Stop-N-Go

5445 University Ave.
Madison, WI 53705
(608) 238-0200

Angeli's Fuel Express

2301 Roosevelt Road
Marinette, WI 54143
(906) 863-5575

The Store

(COMING SOON!)
1605 W. McMillian
Marshfield, WI 54449
(715) 345-5066

Citgo

2426 N. Farwell Ave.
Milwaukee, WI 53211
(414) 347-1764
*Temporarily unavailable

Citgo

425 E. Capitol Dr.
Milwaukee, WI 53212
(414) 961-2425

Marathon

4137 W. Fond Du Lac Ave.
Milwaukee, WI 53216
(414) 447-9082
*Temporarily unavailable

**Walker's Point Plaza
(COMING SOON!)**

605 S. 1st Street
Milwaukee, WI
(414) 254-8417

Mobil

1215 Milton Ave.
Janesville, WI 53545
(608) 754-4730

Marathon

10501 Brown Deer Rd.
Milwaukee, WI 53224
(414) 586-0851
*Temporarily unavailable

**Badger State Ethanol
Smart Station**

1637 4th Ave. W
Monroe, WI 53566
(608) 329-3900

Kwik Trip

229 Oak Forest Drive
Onalaska, WI 54768
(608) 783-6061

Renew E85, LLC

5724 Green Valley Court
Intersection of US 41 & WI 6
Oshkosh, WI 54904

(920) 216-1614

Stanley Travel Stop/Shell

600 South Broadway Street
Stanley, WI 54768
(715) 644-3511

Shell Travel Mart

124 W. McCoy Blvd.
Tomah, WI 54660
(608) 372-263

Renew E85, LLC

137 Gateway Drive
Waupan, WI 53936
(920) 216-1614

Kwik Trip

(COMING SOON!)
3359 Milton Ave.
(262) 673-7130

COMING SOON!)

337 East Park Avenue
Chippewa Falls, WI 54729
(715) 723-1701

Kwik Trip

(COMING SOON!)
3030 Plover Road
Wisconsin Rapids, WI 54494
(608) 793-6433

Kwik Trip

(COMING SOON!)
261 East Main Street
Hortonville, WI 54944
(608) 793-6433

ATTACHMENT 4**STATE OF WISCONSIN 2006 ALTERNATIVE FUEL VEHICLES**

Department	Number and Vehicle Type
Administration	765 Ethanol (E-85) Flexible Fuel Vehicles 28 CNG Bi-Fuel Vehicles 39 CNG Dedicated 6 LPG Bi-Fuel Vehicles 1 LPG Dedicated 3 Hybrid Vehicles
Corrections	113 Ethanol (E-85) Flexible Fuel Vehicles
Health and Family Services	25 Ethanol (E-85) Flexible Fuel Vehicles
Natural Resources	148 Ethanol (E-85) Flexible Fuel Vehicles
Transportation	307 Ethanol (E-85) Flexible Fuel Vehicles 3 LPG Dedicated
Veterans Affairs	14 Ethanol (E-85) Flexible Fuel Vehicle

UW Campus	Number and Vehicle Type
Colleges (Total for 13 two year campuses)	9 Ethanol (E-85) Flexible Fuel Vehicles
Eau Claire	10 Ethanol (E-85) Flexible Fuel Vehicles
Green Bay	10 Ethanol (E-85) Flexible Fuel Vehicles
LaCrosse	12 Ethanol (E-85) Flexible Fuel Vehicles
Oshkosh	19 Ethanol (E-85) Flexible Fuel Vehicles
Madison	158 Ethanol (E-85) Flexible Fuel Vehicles 1 Hybrid Vehicles
Milwaukee	20 Ethanol (E-85) Flexible Fuel Vehicles 27 CNG Bi-Fuel Vehicles 17 CNG Dedicated
Parkside	7 Ethanol (E-85) Flexible Fuel Vehicles
Platteville	11 Ethanol (E-85) Flexible Fuel Vehicles
River Falls	15 Ethanol (E-85) Flexible Fuel Vehicles
Steven's Point	5 Ethanol (E-85) Flexible Fuel Vehicles
Stout	9 Ethanol (E-85) Flexible Fuel Vehicles
Superior	2 Ethanol (E-85) Flexible Fuel Vehicles
Whitewater	1 Ethanol (E-85) Flexible Fuel Vehicles

TOTAL STATE AFVS BY FUEL

Ethanol (E-85) Flexible Fuel Vehicles	1,660
CNG Vehicles	111
LPG Vehicles	10
Hybrid	4
CUMULATIVE TOTAL	1,785

ATTACHMENT 5

2005 Alternative Fuels Related Legislation, Events and Initiatives in the State of Wisconsin

Legislation

- I. 2005 Wisconsin Act 43 (Assembly Bill 67. / Senate Bill 39.) School transportation bio-diesel fuel cost assistance. Directs the Department of Public Instruction to apply for federal dollars to support biodiesel use by schools districts.
- II. 2005 Wisconsin Act 83 (Assembly Bill 72. / Senate Bill 41.) Definition of bio-diesel fuel and labeling, advertising and promoting of bio-diesel fuels and blends for sale.
- III. Assembly Bill-15 / Senate Bill-15 Relating to ethanol requirements (a blend of E10) in automotive gasoline.
- IV. Assembly Bill 546./Senate Bill-252. Sales and use tax exemption for fuel efficient hybrid motor vehicles.
- V. Assembly Bill-600. Sales and use tax exemption for motor vehicles that use gasoline and ethanol mixtures as fuel.
- VI. Assembly Bill-753. Relating to hybrid-electric motor vehicle use in Car pool vehicle lanes.
- VII. Assembly Bill-809. Income/franchise tax credit for motor vehicles that use gasoline and ethanol mixtures as fuel. To Rural Affairs and Renewable Energy.
- VIII. Assembly Bill-851. Allows a city, town or village to allow persons to operate a neighborhood electric vehicle on local highways.
- IX. Senate Bill-620. Creates an income and franchise tax credit for motor vehicles that use gasoline and ethanol mixtures as fuel and for fuel efficient hybrid motor vehicles. To Energy, Utilities and Information Technologies.

Governor's Initiatives

- I. January 14th 2006 Governor Doyle Announces his administration's Biofuels Initiative with a goal of providing \$2 million in grants for farmers and producers who make use of products produced by their land or animals for energy. As part of this initiative the Administration established a Consortium on Biobased Industry to help develop alternative energy sources, promote conservation and create a new market for farmers. Governor Doyle set the goal that by the year 2010, at least 20 percent of the energy that state government uses will come from renewable sources, and by 2015, at least 10 percent of the energy used by homes and businesses will come from renewable sources.
- II. May 27th, 2005 Governor Doyle issues Executive Order #101 Relating to the Development and Promotion of Biobased Industry to
 - a. Recommend short-term and long-term policy and commercialization strategies for the Governor outlining overall state goals and actions that promote the development and use of

- biobased products and bioenergy in an environmentally sound manner; and
- b. Propose how these goals can best be achieved through federal and state programs, integrated planning and regional cooperation; and
- c. Identify mechanisms that would encourage and support private sector initiatives in biobased product development; and
- c. Advise on policies at the state and federal level that would support development of biobased products and energy and new and expanding markets to support them.

The Biobased Consortium was formed, including representatives from Forward Wisconsin, Virent Energy Systems, Inc., Wisconsin Farmers Union, Wisconsin Farm Bureau Federation, Wisconsin Paper Council, Dairyland Power Cooperative, UW-Madison, Wisconsin Environmental Initiative, Boldt Construction, US Forest Products Lab, Badger State Ethanol, Stora Enso North America, Kraft Foods, University of Wisconsin Biotechnology Center, Bank of Cashton, Sustainable Development Institute and Alliant Energy. The Consortium began their charge in June of 2005 and is expected to have recommendations to the Governor by May 2006.

- III. March 1, 2006 Governor Doyle issued Executive Order #141 Relating to Increased Utilization of Renewable Fuels in Vehicles Owned and Operated by the State of Wisconsin requiring all state agencies to reduce the use of petroleum-based gasoline in the state's vehicle fleet by 20 percent by 2010 and by 50 percent by 2015, and reduce the use of petroleum-based diesel fuel by those vehicles 10 percent by 2010 and 25 percent by 2015. To do this, vehicles will be filled with ethanol blend gasoline, E-10, E-85, or biodiesel as much as possible.

State Agency Initiatives

- I. Department of Administration - State Energy Program Special Projects
 - a. The US Department of Energy awarded the Division of Energy and Utica Energy a grant of \$150,000 to continue to support the development of E85 infrastructure in Wisconsin. With Utica Energy's match included, the total project cost is \$1.25 million.
 - b. The US Department of Energy awarded the Division of Energy and Wisconsin Clean Cities Southeast Area (WCC-SEA) \$20,000 for funding a Clean Cities Coordinator.
- II. Department of Administration - Oil Overcharge
 - a. The Department of Administration, Division of Energy is currently working with the Wisconsin Corn Promotion Board (WCPB) to supply funding for the installation of E85 equipment at retail gas stations throughout Wisconsin. The Ethanol Refueling Project has provided \$100,000 (\$77,000 oil overcharge funding, and \$23,000 from WCPB) to establish 15-20 publicly accessible E85 stations near ethanol plants and one E85 metering system that will be used to blend E85 fuel at a local plant. Awards were made to :

- i. Kwik Trip, awarded \$35,000, installing a minimum of 3 stations
 - ii. Utica Energy, awarded \$35,000, installing a minimum of seven stations
 - iii. Ace Ethanol, awarded \$20,000, installing 4 stations
 - iv. United Wisconsin Grain Producers, awarded \$5,000, installing a E85 metering system at the plant to become a distributor of E85,
 - v. Badger State Ethanol, awarded \$5,000, installed one new station
- b. "Renewable Fuels from the Fryer to the Tank". The Department of Administration, Madison Environmental Group and Culver's partnered together to support the advancement of waste vegetable oil research, development and use at Culver's Franchising Inc. locations throughout Wisconsin.

University Initiatives

- I. February 9th, 2005 UW-Madison announces that its diesel-burning fleet of vehicles will be the first in Wisconsin to fill its tanks with a blend of ultra-low sulfur diesel and a soybean-based biodiesel fuel in the campus's effort to improve air quality. The new fuel blend will lead to a 15 percent reduction in particulate matter (soot). It is also anticipated that the new fuel will result in a 13 percent reduction in hydrocarbons, an 8 percent cut in carbon monoxide and a 16 percent decline in emissions of carbon dioxide, the primary gas responsible for global warming.

Alternative Fuels Events

- I. April 8th, 2005 - Green Vehicles Workshop – Hosted by Wisconsin Clean Cities –Southeast Area and Milwaukee Area Technical College-Milwaukee Campus.
- II. May 23, 2005 – Renewable Fuels from the Fryer to the Fuel Tank Announcement – Announcement of partnership between the Department of Administration, Madison Environmental Group and Culver's Franchising Inc. to educate and encourage franchise owners to utilize their waste vegetable oil in their company vehicles.
- III. July 20th, 2005 - Forward Wisconsin: Reducing Diesel Emissions for the Long Haul- Hosted by Wisconsin Clean Cities –Southeast Area and Milwaukee Area Technical College-South Campus and in conjunction with US EPA, US DOE and Wisconsin DNR
- IV. October 12, 2005 – Beyond a Billion: Recognizing a Tri-Fuel Alternative Fuel Station in Wisconsin. - Hosted by Wisconsin Clean Cities Southeast Area at the Landmark Services Cottage Grove Cooperative recognizing their efforts to provide E85, biodiesel and propane for transportation.

- V. October 13, 2005 – Beyond a Billion - Grand Opening of a Utica Energy Renew E85 Ethanol Station in Oshkosh - Hosted by Wisconsin Clean Cities Southeast Area and Utica Energy. Offered E85 fuel for 85 cents to flexible fuel vehicle owners.
- VI. October 13, 2005 – Beyond a Billion - Transit Express Compressed Natural Gas Use in Milwaukee - Hosted by Wisconsin Clean Cities Southeast Area and Transit express recognizing their commitment to promote and use compressed natural gas in their shuttle fleet.
- VII. October 24th , 2005 – E85 grand Opening Event- Announcement of a new E85 station located in Monroe Wisconsin built by Badger State Ethanol
- VIII. November 11, 2005 - E85 Grand Opening Event - Announcement of a new E85 station located in at the Stanley Travel Stop in Stanley, Wisconsin built by ACE Ethanol.
- IX. December 5th, 2005 - Groundbreaking Ceremony for Anamax Biodiesel Production Plant – Announcement of new biodiesel production Facility in DeForest Wisconsin. Biodiesel plant will be producing 20 million gallons of biodiesel from Soy/Waste Grease and they anticipate production by spring/summer 2006.
- X. December 21st, 2005 - E85 Grand Opening Event - Announcement of a new E85 station located in Grand Chute, Wisconsin built by Kwik Trip.

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