



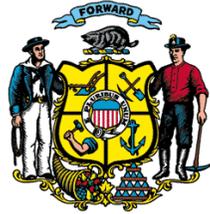
Wisconsin

# Biofuels and Alternative Fuels Use Report

2007 Annual Report

Wisconsin Office of Energy Independence  
Achieving 25 x 25

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Wisconsin Office of Energy Independence  
17 West Main Street, Suite 429  
Madison, WI 53702

***Cover Photos (from top):***

Second -- Flexible Fuel E85 Chevy Tahoe, donated by General Motors and the Wisconsin Corn Promotion Board to the Alice in Dairyland Program, refueling at the Cenex E85 station located in Cottage Grove.

Fourth -- Soybean photo provided by the Wisconsin Soybean Association.

Fifth -- Milwaukee Interstate Traffic photo provided by <http://www.interstate-guide.com>.

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## 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), state government has increased its purchases of gasoline\* blended with ethanol from approximately 235,000 gallons in 1994 to 1,391,402 gallons contracted for 2007. In 2007, almost 95 percent of the gasoline purchased by the state contains a 10 percent blend of ethanol, including reformulated gasoline using ethanol as the oxygenate. This is slightly below the record set last year of 95.7 percent. 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 E85 fuel for their alternative fueled vehicles. For Wisconsin in total, ethanol use in E10 and reformulated gasoline (RFG) has increased from 13.3 million gallons in 1994 to approximately 130.4 million gallons in 2006 (preliminary estimate).

## State Fleet E10 Acquisition and Distribution

S. 16.045 (5) Wis. Stats., enacted in April 1994 required state agencies, to the extent feasible, to purchase and use E10 or alternative fuels in the state fleet.

In 2007, of the 1,466,302 gallons of gasoline contracted for by the state, 1,236,702 gallons (84.3 percent) were for E10. In southeastern Wisconsin, as required by federal law, the state contracted for 154,700 gallons of reformulated gasoline (10.6 percent) which contains ethanol as the oxygenate. This brings the percentage of gasoline, which contains ethanol, contracted for by the State of Wisconsin in 2007 to 94.9 percent. State gasoline usage by fuel type is shown below.

GASOLINE DELIVERIES CONTRACTED FOR BY THE STATE OF WISCONSIN, 1994-2007						
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%
2007	1,236,702	74,900	0	154,700	1,466,302	94.9%

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

\* In this report, gasoline refers to leaded, unleaded, reformulated and E10. E10 refers to a blend of 90 percent conventional (leaded and unleaded but not reformulated) gasoline with 10 percent ethanol. In previous reports, E10 was referred to as gasohol.

## State Agency Actions to Encourage Alternative Fuel Use

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, E10, E85, or biodiesel as much as possible.

Governor Doyle also directed DOA and the Department of Agriculture, Trade, and Consumer Protection (DATCP) to increase the number of E85 pumps in Wisconsin, making the use of this fuel convenient for state employees and the general public.

To help implement the order, DATCP and DOA developed an awareness campaign designed to ensure all flex fuel vehicles in the state's fleet are clearly identified and state employees are aware of E85 and biodiesel refueling station locations. DATCP implemented an E85 and biodiesel station reporting system that has allowed the state to better track the location of E85 and biodiesel retail fuel locations.

To assist state employees and fleet operators, an E85 station brochure was published (Attachment 3) and E85 stickers (Attachment 4) are available to post on each E85 fleet vehicle identifying it as capable of using the fuel. A list of biodiesel stations (Attachment 5) was also formulated to ensure that consumers and fleet operators are aware of their refueling options. These items will be distributed to fleet operators in early May 2007. Both lists are available to the public on the Promoting Our Wisconsin Energy Resources (POWER) web site located at <http://power.wisconsin.gov>.

## Statewide Alternative Fuel Use

The 2002 through 2006 Wisconsin Department of Revenue (DOR) estimates for liquid propane gas (LPG), equivalent gallons of compressed natural gas, and the Department of Administration estimates of ethanol sold for motor fuel use in Wisconsin are shown in the table below.

WISCONSIN ALTERNATIVE MOTOR FUEL CONSUMPTION						
(1,000 of Gallons)						
Fuel	2002 Gallons	2003 Gallons	2004 Gallons	2005 Gallons	2006 Gallons	Percent Change 05 to 06
<i>LPG</i>	3,963	3,815	3,649	3,010	3,215	5.6%
<i>CNG</i>	260	257	257	208	215	2.7%
<i>Ethanol</i>	88,224	100,923	102,539	122,955	130,414	7.3%

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

Prior to 1995, ethanol was primarily used to make E10 (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.

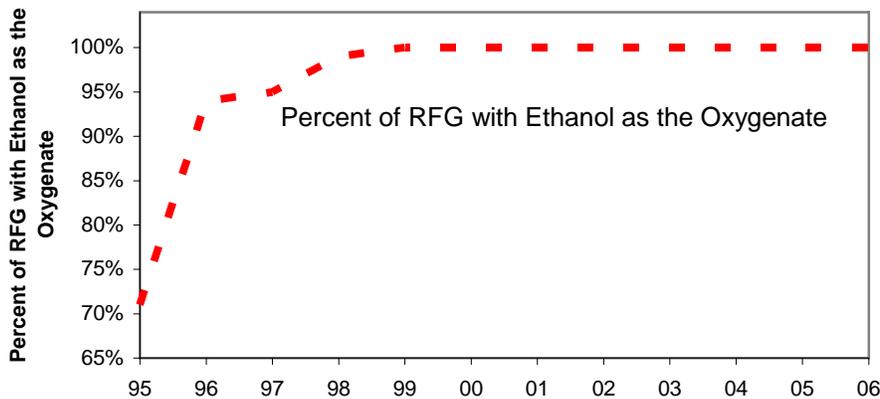
Reformulated gasoline requires an oxygenate which can be supplied by methyl tertiary butyl ether (MTBE), ethyl tertiary butyl ether (ETBE) or ethanol. MTBE contains no ethanol. ETBE contains approximately 5.4 percent ethanol. In 1995, ethanol based RFG contained 10 percent ethanol in the winter and 7.4 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 Wisconsin, in 1996, 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 respectively. Starting in 1999, ethanol has supplied 100 percent of the oxygenate in reformulated gasoline sold in Wisconsin.

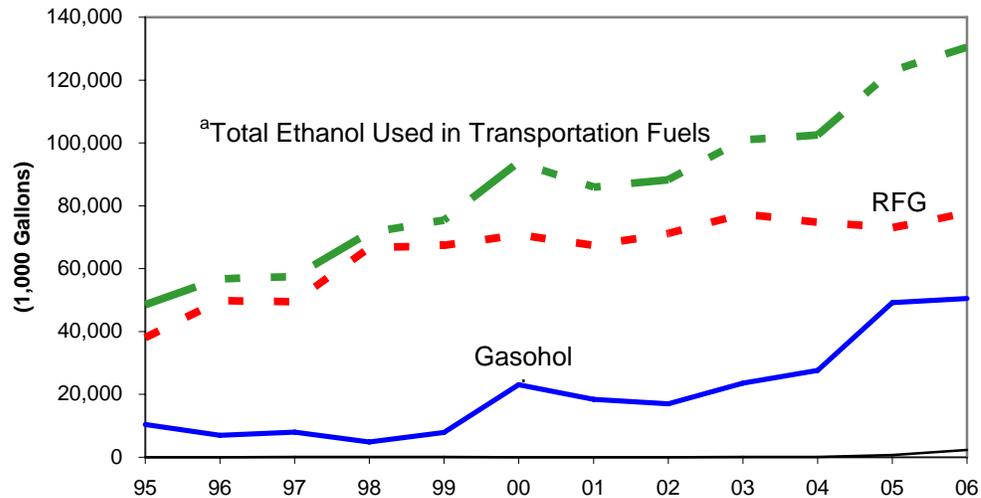
**Percent of RFG Sold in Wisconsin  
with Ethanol as the Oxygenate, 1995-2006**



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

In 2006, DOA estimates that the amount of ethanol used in making RFG for sale in Wisconsin was approximately 77.6 million gallons. In addition, approximately 50.5 million gallons of ethanol were blended with gasoline for sale as E10, with approximately 2.3 million gallons of ethanol used in E85 fuel. This brings total ethanol used as a motor fuel to approximately 130.4 million gallons in 2006. This compares with 123 million gallons used in 2005. The following graph shows the change in volume of ethanol used in RFG and E10 over the past eleven years. The total also includes a small amount of ethanol used in producing E85.

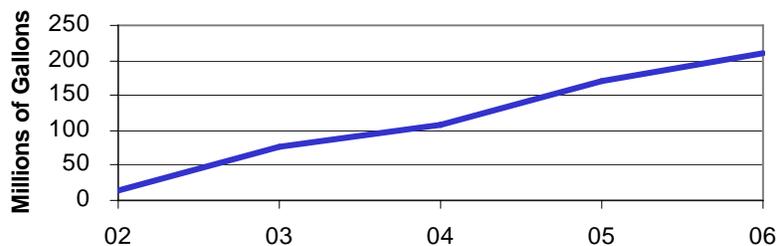
## Wisconsin's Ethanol Use by Fuel Type, 1995-2006



### Wisconsin Ethanol Production

Ethanol production in Wisconsin increased from 171.8 million gallons in 2005 to 210.4 million gallons in 2006, an increase of over 22 percent. The following graph shows how ethanol production in Wisconsin has increased since 2002.

### Wisconsin Ethanol Production (Millions of Gallons)



### E85 Use

E85 is a vehicle fuel blend of 85 percent ethanol and 15 percent gasoline. The major E85 users in Wisconsin include State Government, U.S. General Services Administrations (GSA) and the U.S. Postal Service. DOA's bulk purchase of E85 fuel for its vehicle fleet totaled 13,943 gallons in 2006 compared to 11,424 in 2005. The bulk E85 fuel purchased by DOA is stored at its fleet refueling facilities in Madison and Milwaukee. These E85 refueling facilities can also be used to fuel E85 vehicles operated by other state agencies and the GSA.

During 2006, state government, including eight UW campuses, used 18,018 gallons of E85. This includes bulk purchases of E85 fuel by DOA (13,943 gallons) and conventional, public gasoline station purchases by state agency and UW employees (4,075 gallons). Please note: state government's E85 purchases at gasoline stations are tracked through the use of state credit cards.

Wisconsin has 60 E85 refueling facilities serving the public, compared to 27 last year. An additional 14 stations are scheduled to come online over the next six months. These E85 facilities are primarily gasoline stations. Statewide consumption of E85 at refueling facilities serving the public is estimated at 2.7 million gallons in 2006, compared to 0.8 million gallons in 2005. This is an increase of over 230 percent and is due to a greater number of refueling facilities selling E85 to the public and increased sales volumes at previously existing facilities.

### Biodiesel Use

Starting in June 2006, the Environmental Protection Agency mandated that 80 percent of on-road diesel delivered by refiners and importers was ultra-low sulfur diesel. The University of Wisconsin (UW)-Madison and UW-Milwaukee began using ultra-low sulfur diesel fuel prior to the mandate.

In February 2005, UW-Madison began using a B20 blend of biodiesel, 80% ultra-low sulfur diesel and 20% soybean-based diesel. This B20 blend qualifies as an ultra-low sulfur diesel. The UW-Madison used 48,657 gallons of this biodiesel blend in 2005.

In 2006, UW-Madison consumed 45,019 gallons of B20. Their 2006 biodiesel use would have been higher; however, by mistake, a vendor supplied them with a shipment of regular diesel instead of the biodiesel they had ordered.

UW-Milwaukee also began using biodiesel fuel in 2005 and used 2,933 gallons of B20. In 2006, UW-Milwaukee consumed 2,000 gallons of B20. In late 2006 the Department of Natural Resources began purchasing biodiesel fuel for their fleet vehicles.

In 2006, state government and the UW system purchased in total 52,770 gallons of biodiesel. This consisted of UW-Madison's bulk purchase of 48,657 gallons of B20 for their vehicle fleet and state agency and UW purchases at public biodiesel refueling facilities of 4,113 gallons. State government and UW biodiesel purchases at public refueling facilities are tracked through the use of state credit cards.

### Alternative Fuel Vehicles

This model year, state government anticipates acquiring 46 E85 flexible fuel passenger vehicles. No CNG or LPG vehicles will be purchased this year. GSA anticipates purchasing 180 Model Year (MY) 2007 E85 vehicles. Additionally, the GSA added 3 new MY 2007 hybrid pickups to their fleet for use in Wisconsin. The GSA anticipates this will allow it to maintain its Wisconsin fleets at approximately 734 alternative-fuel vehicles.

The following table shows the number of state vehicles by fuel type. A breakdown of the alternative fuel fleet vehicles according to state agency is shown in Attachment 6.

**State of Wisconsin Fleet Summary**  
(As of March 20, 2007)

Fuel Type	Sum	Percentage of Fleet
Unleaded	3,973	63%
Diesel	653	10%
Ethanol (E85) Flexible Fuel	1,606	25%
Compressed Natural Gas (CNG)	65	1%
Propane (LPG)	12	<.5%
Hybrid Electric	4	<.5%
<b>TOTAL</b>	<b>6,313</b>	<b>100%</b>

The total number of E85 vehicles currently operated by state government is 1,606. (In 2005, the state operated 1,259 E85 vehicles.) The State of Wisconsin now operates 65 CNG vehicles, 27 dedicated and 38 bi-fuel. There are now 12 LPG vehicles, 4 dedicated and 8 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 87 vehicles includes 69 alternative fueled vehicles. The mix of alternative fueled vehicles consists of 44 CNG vehicles (27 dedicated and 17 bi-fuel), 19 ethanol vehicles (E85 FFV), and 6 biodiesel vehicles. UW-Milwaukee plans to convert the remaining 18 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 DOT began providing DOA/DATCP 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 vehicles registered in Wisconsin, analyzing trends in alternative fueled vehicle purchases, and determining the Wisconsin market for alternative transportation fuel.

Attachment 7 provides additional information on state actions to encourage the use of alternative fueled vehicles in Wisconsin.

**Vehicles Registered in Wisconsin by Fuel Type**  
(As of January 1, 2007)

Fuel Type	2005	2006
Unleaded	4,676,900	4,675,381
Diesel	146,406	159,327
Electric	8	7
Ethanol (E85) Flexible Fuel	109,848	128,563
Compressed Natural Gas (CNG)	117	119
Propane (LPG)	115	95
Hybrid Electric	5,862	9,891
Methanol	1	1
Other *	432,543	510,670
<b>TOTAL</b>	<b>5,371,800</b>	<b>5,484,054</b>

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

## 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:

1. Biodiesel 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) “Biodiesel fuel” means fuel derived from soybean oil with glycerin 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 4



**ATTACHMENT 5**

**Wisconsin Biodiesel Retail Locations**

Update 04/26/07

<b>Business Name</b>	<b>Address</b>	<b>City</b>	<b>Zip</b>	<b>Phone</b>	<b>Blend</b>	<b>Notes</b>
Cenex Express Pump 24	105 N. Mechanic St.	Albany	53502	(608) 897-3070	B5	24/7 pumps
New Horizons Cenex Convenience Store	303 W. Exchange St.	Blue River	53518	(608) 537 2751	B5	Business Hours: 5am - 10pm, 24/7 pumps
New Horizons Cenex Convenience Store	401 Elm St.	Boscobel	53085	(608) 375-4801	B5	Business Hours: 4am - 11pm, 24/7 pumps
Cenex Express Pump 24	1105 W. 4th Ave.	Brodhead	53520	(608) 897-3070	B5	Business Hours: 7am - 6pm, 24/7 pumps
Camp Douglas BP Travel Center	215 Hwy 12 & 16	Camp Douglas	54618	(608) 427-3365	B5	Open 24/7
Landmark Cenex & Convenience Store	501 Park St.	Columbus	53925	(920) 623-3260	B5	Business Hours: 5am - 10pm, 24/7 pumps
Landmark Cenex & Convenience Store	203 W. Cottage Grove Rd.	Cottage Grove	53527	(608) 839-8222	B5	Business Hours: 5am - 10pm, 24/7 pumps
Progressive Farmers	1221 Grant St.	De Pere	54115	(920) 336-6449	B5	Business Hours: 7am-7pm, 24/7 pumps
Landmark Cenex & Convenience Store	9 John Lindemann Dr.	Evansville	53536		B5	24/7 pumps
New Horizons Cenex	720 Lincoln Ave.	Fennimore	53809	(608) 822-2045	B5	Business Hours: 7am - 6pm, 24/7 pumps
New Horizons Cenex Convenience Store	728 Hwy 131	Gays Mills	54631	(608) 735-4308	B5	Business Hours: 6am - 8pm, 24/7 pumps
Zzip Stop	217 W. Main St.	LaFarge	54639	(608) 625-2203	B20-B50	Business Hours: 6am - 10pm, 24/7 pumps
Lyndon Station BP	470 Cty Hwy HH, Exit 79/I90-94	Lyndon Station	53944	(608) 666-3771	B5	Open 24/7
PrairieFire BioFuels Cooperative	1894 E. Washington Ave.	Madison	53704	(608) 441-5454	B99.9	Business Hours: Mon, Wed, Fri 3pm-7pm, Sat 10am-4pm. Also by Appt.
Landmark Cenex & Convenience Store	510 W. Main St.	Marshall	53559	(608) 655-3813	B5	Business Hours: 5am - 10pm, 24/7 pumps
The Store	1505 W. McMillian	Marshfield	54449	(715) 486-1904	B5	Business Hours: 5am-12am
Cenex Express Pump 24	925 E. Broadway	Monona	53716	(800) 236-3276	B5	24/7 pumps
Smart Station	1637 4th Ave. W.	Monroe	53566	(608) 329-3900	B5/B20	Unmanned fuel station, 24/7 pumps, Seasonal Blends
Blanchardville Coop Oil Assn.	1401 Hwy 69 S.	New Glarus	53516	(608) 527-2112	B5	24/7 pumps, offered April 1–October 31
New Horizons Cenex Convenience Store	12143 Hwy 35	Patch Grove	53817	(608) 994-2756	B5	Business Hours: 7am - 6pm, 24/7 pumps
Mid-County Cooperative	660 Seward St.	Shawano	54166	(920) 255-2119	B99.9	Business Hours: 8am-5pm, Offered April 1–October 31
E.H. Wolf & Sons, Inc.	414 Kettle Moraine Drive S.	Slinger	53086	(800) 236-9653	B2	Unmanned fuel station, 24/7 pumps
Cenex Express Pump 24	401 Marshview Dr.	Sun Prairie	53590	(800) 236-3276	B5	24/7 pumps
I90 Cenex	341 E. Jefferson St.	West Salem	54669	(608) 786-1108	B5	Offered April 1-October 31

**ATTACHMENT 6**

**STATE OF WISCONSIN 2007 ALTERNATIVE FUEL VEHICLES**

<b>Department</b>	<b>Number and Vehicle Type</b>
Administration	723 Ethanol (E85) Flexible Fuel 37 CNG Bi-Fuel 27 CNG Dedicated 1 LPG Bi-Fuel 5 LPG Dedicated 3 Hybrid Electric
Corrections	95 Ethanol (E85) Flexible Fuel
Health and Family Services	23 Ethanol (E85) Flexible Fuel
Natural Resources	147 Ethanol (E85) Flexible Fuel
Transportation	319 Ethanol (E85) Flexible Fuel 3 LPG Bi-Fuel 3 LPG Dedicated
Veterans Affairs	14 Ethanol (E85) Flexible Fuel

<b>UW Campus</b>	<b>Number and Vehicle Type</b>
Colleges (Total for 13 two year campuses)	9 Ethanol (E85) Flexible Fuel
Eau Claire	10 Ethanol (E85) Flexible Fuel
Green Bay	10 Ethanol (E85) Flexible Fuel
LaCrosse	12 Ethanol (E85) Flexible Fuel
Oshkosh	18 Ethanol (E85) Flexible Fuel
Madison	168 Ethanol (E85) Flexible Fuel 1 CNG Bi-Fuel 1 Hybrid Electric
Milwaukee	19 Ethanol (E85) Flexible Fuel 27 CNG Bi-Fuel 17 CNG Dedicated
Parkside	7 Ethanol (E85) Flexible Fuel
Platteville	12 Ethanol (E85) Flexible Fuel
River Falls	20 Ethanol (E85) Flexible Fuel
Steven's Point	6 Ethanol (E85) Flexible Fuel
Stout	9 Ethanol (E85) Flexible Fuel
Superior	2 Ethanol (E85) Flexible Fuel
Whitewater	2 Ethanol (E85) Flexible Fuel

**TOTAL STATE AFVS BY FUEL**

Ethanol (E85) Flexible Fuel Vehicles	1,606
CNG Vehicles	65
LPG Vehicles	12
<u>Hybrid</u>	<u>4</u>
<b>CUMULATIVE TOTAL</b>	<b>1,687</b>

## ATTACHMENT 7

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

#### 2007 Proposed Legislation

- I. [ASSEMBLY BILL 85](#): relating to: creating an income and franchise tax credit for motor vehicles that use gasoline and ethanol mixtures as fuel.
- II. [ASSEMBLY BILL 174](#): relating to: an income and franchise tax credit for the sales and use taxes paid on the purchase of fuel efficient hybrid motor vehicles.
- III. [ASSEMBLY BILL 171](#): relating to: an individual income tax credit for the sales and use tax paid to purchase corn used for fuel for residential use.
- IV. [SENATE BILL 90](#): relating to: creating an income and franchise tax credit for motor vehicles that use gasoline and ethanol mixtures as fuel and for fuel efficient hybrid motor vehicles.

#### 2006 Governor's Initiatives

- I. January 14<sup>th</sup> 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. 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, E10, E85, or biodiesel as much as possible.
- III. July 1, 2006 Governor Jim Doyle, joined by University of Wisconsin System President Kevin Reilly and other industry and environmental leaders, signed Wisconsin's "Declaration of Energy Independence" – setting broad, ambitious goals for the state to become the nation's leader in the drive toward energy independence. The Governor also announced a comprehensive effort to achieve those goals, including grant funding, incentives for research, support for ethanol and other biofuels.

#### 2006 State Agency Initiatives Update

- 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. In 2006 three stations installations were completed. New E85 stations are now located in Howard, Wautoma and Slinger. Seven more stations will be installed under this program.

- 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, installed three stations in Hartford, Grand Chute and Janesville;
  - ii. Utica Energy, awarded \$35,000, installed five stations in Kewaunee, Oshkosh, Waupun, Cedar Grove and Oostburg - they will complete two more stations by the end of 2007;
  - iii. Ace Ethanol, awarded \$20,000, installed two stations in Stanley and Eau Claire;
  - iv. United Wisconsin Grain Producers, awarded \$5,000, installed an E85 metering system at the plant to become a distributor of E85;
  - v. Badger State Ethanol, awarded \$5,000, and installed one new station in Monroe.
- III. In 2006, The Department of Natural Resources fleet committed to the increased use of biodiesel in their fleet.

### Alternative Fuels Events and Presentations

State employees have made over 55 presentations on biofuels to over 2200 Wisconsin citizens. The following table describes these presentations, the date and location and the audience.

Event Title	Description	Dates/Location	Attendance/Audience
Wisconsin Ethanol Producers Association Meeting	Update on E85 activities	Feb 15, 2006 Madison	15 Ethanol producers, industry partners
Wisconsin Ethanol Producers Association Meeting	Update on E85 activities	Mar 15, 2006 Madison	15 Ethanol producers, industry partners
Keep Greater Milwaukee Beautiful	Biodiesel presentation	Apr 4, 2006 Milwaukee	20 City and state government, citizens, energy business sector
Hessen Delegation	Updates on biofuels activities in the state	Apr 6, 2006 Madison	10 Governmental representatives from Hessen Germany
The Olbrich Garden Club	Alternative fuels related to ethanol and biodiesel (agriculture)	Apr 10, 2006 Madison	12 Garden club members, interested citizens
League of Women Voters Milwaukee County	Biodiesel & Ethanol	Apr 24, 2006 Milwaukee	10 League members
Wisconsin Ethanol Producers Association Meeting	Update on E85 activities	May 17, 2006 Madison	15 Ethanol producers, industry partners
UWGP Ethanol Plant Tour	Ethanol Production	Jun 13, 2006 Friesland	4 Media groups
Federation of Cooperatives Industry Workgroup	Current activities in the state related to biodiesel and E85	Jun 15, 2006 Wisconsin Rapids	15 Cooperative Managers
Wisconsin Corn Promotion Board	Current activities in the state related to E85,	Jun 16 2006 Wisconsin Dells	10 Board Members

<b>Event Title</b>	<b>Description</b>	<b>Dates/Location</b>	<b>Attendance/Audience</b>
	discussion of partnership opportunities		
International Fuel Ethanol Workshop and Trade Show	Annual ethanol production and technical convention	Jun 19-21, 2006	1500 registered (assume 500 viewed display)
WTCS-Workshop on Alternative Fuels	Alternative fuels-ideas/exercises to help students grasp significance of alt. fuels	Jun 27, 2006 Middleton, WI	35 Secondary and Post Secondary educators
Wisconsin Ethanol Producers Association Meeting	Update on E85 activities	Jun 28, 2006 Madison	30 Ethanol producers, industry partners
Guster – Biodiesel Promotion	Attendance at event	Jul 8, 2006 Milwaukee	15 Biodiesel industry partners
Farm Technology Days	Staffing at ethanol and biodiesel display	Jul 11-13, 2006 All day	250 Farm Tech day attendees
Wisconsin Agriculture and Life Sciences Alumni Association	Biodiesel in Wisconsin and the US	Jul 12, 2006	30 UW Alumni, some with biofuels industry connections
Wisconsin Ethanol Producers Association Meeting	Update on E85 activities	Jul 19, 2006 Madison	20 Ethanol producers, industry partners
E85 Grand Opening – Kwik Trip	Support Speech	Jul 27, 2006 Wisconsin Rapids	25 Kwik Trip employees, ethanol partners
Energy Independence Event – Kwik Trip	Support Speech	Jul 27, 2006 Janesville	5 Kwik Trip employees, ethanol
Wednesday Night at the Lab	Current activities in the state related to biodiesel and E85	Aug 2, 2006 Madison	30 UW Alumni
Wisconsin State Fair	Staff for E85 vehicle display	Aug 2-10, 2006 Milwaukee	250 State Fair Attendees
Wisconsin Technical College Biodiesel Reactor Ribbon Cutting	Dedication of new technology/Mobil biodiesel apparatus created by students	Aug 7, 2006 Madison, WI	25 Biodiesel industry, environmental orgs, legislators
Wisconsin Ethanol Producers Association Meeting	Update on E85 activities	Aug 16, 2006 Madison	25 Ethanol producers, industry partners
ServcoFS	Current activities in the state related to biodiesel and e85.	Aug 17, 2006 Antigo	12 Auto Technicians/ Cooperative Employees
Division of Agricultural Development International Staff	Current activities in the state related to biodiesel and E85	Aug 22, 2006 Madison	4 DATCP International Staff
E85 Grand Opening – Kwik Trip	E85 Support Speech	Aug 26, 2006 Mosinee	25 Kwik Trip employees, legislators, E85 stakeholders
WOMT Radio	Ethanol discussion	Sep 1, 2006 Manitowoc	Average Listening audience
Girl Scout Power Clinic	E85 and FFVs	Sep 6, 2006 Mt Horeb	15 Girls Scouts and parents
North Prairie Energy – Biodiesel Pep-Rally	support of new biodiesel production facility	Sep 12, 2006 Evansville	(400) Industry, farmers, potential investors
Farm Center Staff	Current activities in the	Sep 16, 2006	5 Farm Center staff

<b>Event Title</b>	<b>Description</b>	<b>Dates/Location</b>	<b>Attendance/Audience</b>
	state related to biodiesel and E85	Madison	
Wisconsin Bioindustry Alliance	Update on E85 activities	Sep 20, 2006 Madison	30 Ethanol and biodiesel industry, environmental orgs
RENEW Ethanol Plant Groundbreaking	Ethanol support speech	Oct 3, 2006 Jefferson	50 Ethanol industry stakeholders
EPA Region 3 Ethanol Workshop	Wisconsin's perspective on the transition from MTBE to ethanol	Oct 4, 2006 Hagerstown, MD	70 Underground storage tank regulators, other state agency regulators
AFV Odyssey Event	E85/Alternative Fuels	Oct 12, 2006 Milwaukee	75 Count employees, AFV stakeholders
Cenex Biofuels Presentation	Biofuels Activities	Oct 18, 2006 Menomonie	25 received presentation, cooperative managers
E85 Grand Opening Wausau R-Store	E85 Support Speech	Oct 18, 2006 Wausau	25 Ethanol stakeholders, legislators, r-store employees
E85 Grand Opening – Washington Avenue Mobil	E85 Support Speech	Oct 24 2006 Racine	20 Ethanol stakeholders, legislators, local officials
Wisconsin BioIndustry Alliance	Update on E85/Biodiesel activities	Oct 25, 2006	25 Ethanol producers, industry partners
2006 Fall Southwest Regional Maintenance Conference	Biofuels activities and updates to county officials	Oct 26, 2006 Spring Green	70 County Highway Commissioners
Discover WI	A 30 minute show on E85 with a Wisconsin focus	Oct 27, 2006 Madison	Wisconsin Viewers
E85 Fleet Managers Workshop	E85 Updates and state activities	Oct 30, 2006 Madison	25 State and Fleet Managers
NBC 15 Biodiesel Interview	Biodiesel Facts	Nov 6, 2006 Deforest	NBC 15 viewers
Running on Fumes – Documentary	documentary on biofuels with a Wisconsin focus	Ongoing	unknown
Clark County Biofuels Workshop	Initiative, grants, and possible regulations in biofuels	Nov 14, 2006 Loyal	50 On-Farm producers, Biodiesel Business start up groups
Wisconsin BioIndustry Alliance	Update on E85/Biodiesel activities	Oct 25, 2006 Madison	25 Ethanol producers, industry partners
WDOT 2006 Freight Railroad Conference	Bio-fuels Panel Discussion - State position on ethanol and rail issues	Nov 16, 2006 Madison	100 DOT, railroad, and federal agency representatives
Vernon County Biofuels Workshop	Initiative, grants, and regulations for biodiesel production	Dec 7, 2006 Hillsboro	50 On-Farm producers, Biodiesel Business start up groups
How to Build a Biomass	Biofuels	Dec 7, 2006	50 On-Farm producers,

<b>Event Title</b>	<b>Description</b>	<b>Dates/Location</b>	<b>Attendance/Audience</b>
Business in Richland County		Richland Center	Biodiesel Business start up groups
Buffalo County Biofuels Workshop	Initiative, grants, and regulations for biodiesel production	Dec 8, 2006 Waumandee	50 On-Farm producers, Biodiesel Business start up groups
Spring Harbor Middle School – 7 <sup>th</sup> Grade Alternative Energy Presentation	Summary of Alternative Energy – Fuels, wind and farm power	Dec 11, 2006 Madison	25 7 <sup>th</sup> grade social studies students
December Fleet Transportation Directors Meeting	E85 update and potential initiatives	Dec 14, 2006 Madison	15 State Fleet Transportation Directors
Wisconsin BioIndustry Alliance	Update on E85/Biodiesel activities	Dec 20, 2006 Madison	30 Bioindustry Stakeholders