

Biodiesel: On the farm, on the water, at home



From the farm fuel tank to the waterways to fair midways to home heating oil systems, biodiesel blends are finding a place in American life.

More than 250 million gallons of the fuel, which is made primarily from soybean oil, is sold annually in the United States. And that number is

growing, as more people realize how easy it is to switch to biodiesel blends and enjoy cleaner emissions and the benefits of a domestically produced, renewable fuel.

Biodiesel is typically mixed with petroleum diesel to form a blended fuel, which is called "Bxx," where the number following the "B" designates the percentage of pure biodiesel in the finished fuel.

From B2 (to enhance lubricity and cetane) to B5 (the blend of choice for home heating oil) to B20 (for the cleanest emissions), there is a biodiesel blend for everyone.



Left, the Indian River Marina in Delaware sells B5 at its dock pumps. Above left, the Delaware State Fair midway was powered by B20 biodiesel generators.

Making the switch: Cumberland County, Pa.

All of the Cumberland County, Pa., Transportation Department buses are now using biodiesel blends, thanks to an agreement between the county and John W. Gleim, Jr., Excavating of Mechanicsburg, Pa.

The switch makes Cumberland the first Pennsylvania county to fuel its transportation department with the cleaner-burning fuel.

As of Sept. 17, Gleim Excavating, a site developer which fuels their fleet with biodiesel, began sharing its fuel facilities with the county.

Keystone BioFuels, Inc., manufactures biodiesel at its Shiremanstown, Pa., plant, and supplies Gleim with fuel. Race Miner of Keystone BioFuels said, "Biodiesel in an environmentally friendly, renewable fuel. It can be used in any application where conventional diesel fuel or heating oil is used."



Pa. Secy. of Agriculture Dennis Wolff congratulates Cumberland County and John W. Gleim Excavating on their agreement to share refueling facilities.

Biodiesel: Made in the U.S.A

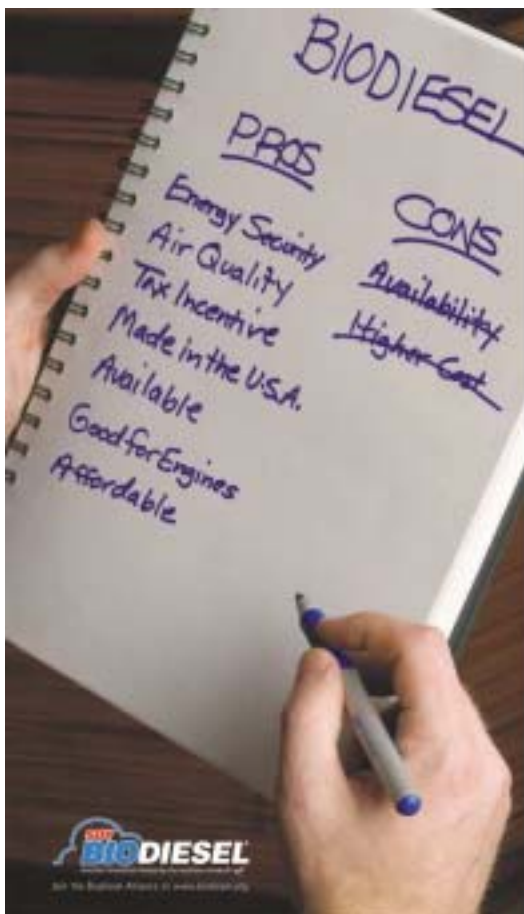
Nationwide, the biodiesel industry has the capacity to produce 1.85 billion gallons of fuel, although actual biodiesel production is currently estimated at about 250 million gallons. That production includes biodiesel plants located in Delaware, Maryland, Pennsylvania, New Jersey, New York and Virginia, where much of the biodiesel is made from locally-grown soybean oil.

In addition to the significant benefits that biodiesel offers to increase our domestic refining capacity and overall energy supply, biodiesel production actually benefits our food supply, according to studies by the U.S. government.

Biodiesel does much more than just utilize surplus ag commodities on the market. It adds multiple layers of value to agricultural economics in a way that enhances our food supply. Greater use of fats and oils for biodiesel production increases the value that farmers receive for their crops, while making protein meal less expensive. That means domestic livestock feed becomes less expensive than it otherwise would be, and more competitive in international meal markets for food and feed. Not only does this allow farmers to more profitably supply global food markets, it may have the effect of increasing ag processing in the United States.



Marty Ross, left, explains how biodiesel is made during a tour of Mid-Atlantic Biodiesel in Clayton, Del.



The reasons for switching to soy biodiesel are stacking up.

It's the fuel made from U.S. soybeans, so it reduces our dependence on foreign oil. And, a federal tax incentive makes biodiesel even more affordable.

Renewable soy biodiesel reduces emissions and increases fuel lubricity. So, choose the fuel that's good for our country, your engine and the environment. Choose soy biodiesel.

Find out more!

Delaware Soybean Board
www.desoybeans.org

Maryland Soybean Board
www.mdsoy.org

Pennsylvania Soybean Promotion Board
Northeast Region Soybean Board
www.pasoybean.org

New Jersey Soybean Board

Fill 'er up: How to find biodiesel

The National Biodiesel Board recommends taking a few precautions when making the switch to biodiesel blends:

- Make sure you buy your fuel from a reputable source.
- Buy biodiesel fuel that is already blended if possible.
- Never buy from someone making fuel in their garage or backyard.
- Biodiesel is a cleaning agent, which means petroleum deposits may end up in the fuel filter until the system is clean. Stick to your regular maintenance schedule, unless your vehicle feels sluggish when accelerating. This is a symptom of a plugged filter and should be checked immediately.
- As with petroleum diesel, wipe up any drips with soapy rag and dispose of the rag properly.

The following list of fuel suppliers who have been reported to carry biodiesel blends and/or Bioheat is being provided as a convenience to readers. Every effort has been made to ensure accuracy and inclusion. None of the soybean boards assumes any liability for the accuracy of the list. It is recommended that you call ahead to any distributor/retailer shown to ensure product availability, hours, and terms of sale.

Delaware

Peninsula Oil & Propane
Seaford DE
302-629-3001
800-782-1090
ALL BLENDS

Carl King
Camden, DE
888-227-5546

Pep-Up
Bryan Pepper
(302) 856-2555

Maryland

Bare Truck Center
Retail - Rts. 140 & 97
Westminster, MD
(410) 840-0666

C&M
Lanham, MD
(301) 674-3459

Canton Biofuels
Baltimore MD
Mark Szczawinski
443-255-5092
ALL BLENDS

Cropper Oil & Gas
Berlin MD
James Warren
jwarren@cropperoil.com
410-641-2251
ALL BLENDS

HC McComas Fuel Co.
Baltimore MD 21216
James McComas
410-669-5000
ALL BLENDS

Hillside QuickServe
Centreville, MD
(410) 758-2270

LS Fuel Co.
Frederick, MD
Rick Agoris
(301) 834-9701
Rosemont Service Ctr.
Brunswick Citgo
Mt. Pleasant Citgo

Mid-Eastern Oil Co.
Salisbury, MD
(410) 749-4212

Taylor Oil Co.
Baltimore MD
Sean Downey

410-636-9000
908-884-3813
ALL BLENDS

Taylor Oil Co., Inc.
Salisbury, MD
(410) 749-2151

Taylorville Shell
2605 W. Liberty Road
Taylorville, MD
(410) 635-8901

Tevis Oil Inc
Wesminster MD 21157
John Hoffman
410-848-4433
Stanley H Tevis III –
info@tevisoil.com
ALL BLENDS

Tri-Gas & Oil
Federalsburg MD 21632
Seth R Powell
800-638-7802
spowell@trigas-oil.com
B2 & UP

Westway
Baltimore MD 21230
John Mitchell
410-539-5950
ALL BLENDS

New Jersey

J W Pierson Co
East Orange NJ 07017
George Scoles
973-673-5000
B20 BLEND

Skyland Energy Service
Rarian NJ 08869
Edward A Miller-
emiller@skylandenergy.com

Taylor Oil Co Inc
Black Horse Pike
Williamstown NJ
Bob Dilullo
856262-3133
ALL BLENDS
Somerville NJ 08876
Frank Bloom
908-725-7737
ALL BLENDS

TransMontaigne
Carteret NJ
Danny Sells
303-860-5379
ALL BLENDS

W B Steward & Sons
Woodbury Heights NJ
Donald W Steward

Woodruff Energy
Bridgetown NJ
bobsr@woodruffenergy.com
856-455-1111
All Blends

New York

Abbott & Mills Inc
238 Gardnertown Road
Newburgh, NY 12550
Ralph L. Mills
rim@abbottandmills.com

Al's Oil Service Inc.
Amityville, NY
James Galling
spikedogv@aol.com
Retailer

Rapid Oil Service
Amityville, NY 11701
James Gallina

Bangston General Oil
Plainview, NY
John Griffin
jgriffin@generalutilities.com
Bioheat

BioEnergy of America
Bridgewater, NY 08807
Michael J Losch
mosch@bioenergyofamerica.com
Bioheat

BioEnergy of America
Bridgewater, NY 08807
Michael J Losch
mosch@bioenergyofamerica.com

Blue Diamond Fuel Oil
Brooklyn, NY 11232
Michael Prascia
BDMAP@aol.com
Bioheat

Burt's Reliable Inc.
Southold, NY 11971
John Romonelli

Castle Oil Corporation
Harrison, NY 10528
Paul Conley
pconley@castleoil.com
Bioheat

Clickable Oil Co., Inc
Lanchmart, NY 10538
Guy Pipolo
guy.pipolo@clickableoil.com

Consumers Energy
Group Inc.
Brooklyn, NY 11237
Anthony Losquadro
tony@consumers-
energy.com
Bioheat

Dutchess Oil & Propane
Millerton, NY
Robert Podris
dutchessoil@taconic.net
Bioheat

E.T. Lawson & Son Inc
Hampton, NY
Donald Allen
dallen@etlawson.com
Bioheat

Energy Conversation
Group
College Point, NY
Allison Heaney
skaggswalsh@aol.com

General Utilities Inc. &
Bangston General Oil
Plainview, NY
John Griffin
jgriffin@generalutilities.com
Bioheat

JR Fuel Oil Inc. D/B/A
Hart Petroleum
Deer Park, NY
Raymond A. Hart
hartpetroleum@yahoo.com
Bioheat

Mountain View Oil Co.
Voorheesville, NY
Steve Tracey
mtnview@nycnp.rr.com

MVC Heating Corp D/
B/A Bell Fuel Oil
Brooklyn, NY 11219
Michael V. Coppola
Bioheat

New Hyde Park Oil
Terminal
New Hyde Park, NY
Raymond A. Hart
nhpterminal@yahoo.com
Bioheat

New York Oil Heating
Association, Inc
New York, NY 10122
John Maniscalco
Bioheat

Rapid Oil Service Amityville, NY 11701 James Galling spikedogv@aolcom	Bumgardner & Flasher Oil Co. Mount Union, PA 814-542-4213	Hanly Oil, Inc. Collingdale, PA 610-461-0900	Moyer Plumbing & Heating Co. Kutztown, PA Steven Moyer Moyerph@aol.com 610-683-7364 B10-100 BLENDS	Stoudnour Petroleum Saxton, PA Thomas Stoudnour 814-635-2961
Rucci Oil Company Staten Island, NY Roy A. Rucci	C S Myers State College, PA Steve Hamilton 814-238-3081 B5 BLEND	Heisey Oil Company Mount Joy, PA 717-892-2000	Naughton Energy Corp Pocono Pines, PA Sean Naughton 570-646-0422 ALL BLENDS	Stover Fuel Oil Inc Hershey, PA Mike Stover 717-534-1903
Taylor Oil Dover Plains, NY Kevin M. Taylor oilman1414@msn.com	Christoff Mitchell Petroleum Inc Philipsburg PA Rusty Christoff 814-342-3620 B3 BLEND	Hummelstown Fuel Oil Hummelstown PA 717-566-0422	Newell Fuel Service Dallas, PA Sherri Newell newell@epix.net Bioheat Agreement	Swenson Fuels New Bloomfield, PA 717-582-2949
Tragar Oil Dennis Traina 1432 Wantagh Ave New York, NY oilguy@trager.com	Countryside Fuel LLC Womelsdorf PA Nevin Dieffenbach 610-589-5840 B3 BLEND	Jerome H. Rhoads, Inc. Lancaster, PA 717-397-5277 www.rhoadsenergy.com	Nittany Oil Co State College, PA Brian Yocum 814-237-4859	Taylor Oil Co Inc Eddyston, PA Bob Phillips 610-876-1783 908-884-3813
Whiting Oil Corp. North Hampton, NY Richard Whiting whitingenergy@verizon.net	Deiter Bros Bethlehem, PA Jim Deiter Jdeiter@Dbrothers.com	K E Weaver Lititz PA Ken & Shane Weaver 717-626-7169 shane@weaverpetroleum.com	Oehlert Bros. Inc. Royersford, PA Steve Oehlert info@theenergyexperts.com Bioheat Agreement	Talley Petroleum Enterprises, Inc. Grantville, PA 717-469-0338
Pennsylvania				
ABC Fuel Oil Inc Harrisburg, PA Scott Wolford 717-545-4758	Deaven Fuel Oil Co Hershey, PA Bill & Sharon Bikle 717-566-9363	Kerver's Heating & Cooling Greenville, PA (215) 679-4389	Peggys Fuel Oil Hummelstown, PA Peggy Schrom 717-566-3418	TLC Fuels, Inc. Jersey Shore, PA 570-753-5722
Aero Energy New Oxford, PA Thompson Washburn 717-624-4311	Drescher Fuel Oil Inc Bethel, PA Doug Drescher 717-933-4368	Keystone BioFuels Inc Shiremanstown, PA 717-761-3511	Reed Oil Co., Inc. New Castle, PA 800-922-5454	The Energy Cooperative Philadelphia PA Emily Bockian Lansburg 215-413-2122
Affordable Fuels Inc Sunbury, Pa. Giles Whitcom 570-286-8600 B5 BLEND	Earl Martin, Inc. East Earl, PA 717-354-4061	Lancaster Fuels Inc Lancaster, PA 717-672-1989 ALL BLENDS	Rotz Oil Chambersburg, PA Lynn Rotz 717-264-8174 ALL BLENDS	United Oil Company Pittsburgh PA Charles Cross 412-231-1270
Allegheny BioSolutions Pittsburgh, PA Gust G Sarris ALL BLENDS	Ednis Oil Service York, PA bursaw@aol.com	Leffler Energy Mount Joy, PA Wendy Zimmerman 717-653-3426	Self Heating & Cooling Horsham, PA Robert Self Jr. self@self-hc.com Bioheat Agreement	Vincent R. Boltz Inc Lebanon, PA Robert Boltz 717-272-4881
Beck Fuels Inc Turbotville PA Douglas Whitmoyer 570-538-1833	Export Fuel Co Inc. Export, PA Richard Morchesky 724-468-4185	Leighow Oil Co Inc Danville PA John Leighow 570-275-3901	Snedeker Energy LLC Lewistown, PA Jan G Snedeker jan@snedoil.com 717-248-2665	Werner Fuels Inc Paxinos, PA 17860 Donald Werner 570-286-5089
Bernville Quality Fuels Reading PA Kenneth Schlegel 610-372-2709 www.bernvillequalityfuels.com B5 BLEND	Farm & Home Oil Teleford, PA Ken Longacre rlongacre@fhoil.com	Mid-Atlantic Cooperative Solutions DBA\Aero Energy New Oxford, PA Thompson T. Washburn twashburn@aeroenergy.com	State Petroleum Distributors Olyphant, PA 570-307-4060 www.statepd.com	West Shore Oil Co. Marysville, PA Brian Walters 717-957-2121 ALL BLENDS
Biodiesel of Pennsylvania White Deer PA Michael Kalin 570-538-1041 B100 BLEND	H.B. McClure Co. Harrisburg, PA Jeff Seaman 717-232-4328 B3 BLEND	Midway Fuel Stop Shermans Dale, PA 717-582-2028	Woolcock Oil Co. Millville, PA 570-458-5822	Worley & Obetz Inc Manheim, PA 717-665-6891 B100 BLEND
	HC Rineer & Sons Inc Strasburg, PA Howard Rineer 717-687-7347 B5 BLEND			

Visit the National Biodiesel Board website: www.biodiesel.org
to locate more distributors or add to their list.

Making waves: Biodiesel is great in boats

In a special ceremony May 9, 2005, Delaware Gov. Ruth Ann Minner announced the introduction of a soy biodiesel fuel blend at the Indian River Marina.

Located at the Indian River Inlet on Route 1, north of Bethany Beach, the Indian River Marina was the first marina in the Mid-Atlantic region to offer soy biodiesel fuel to government and commercial marine fleets, as well as private boat owners. The marina is part of Delaware Seashore State Park, managed by the Delaware Department of Natural Resources and Environmental Control.

Today, tens of thousands of gallons of B5 later, the marina looks forward to many more boating seasons with the environmentally friendly fuel.

Biodiesel is an obvious candidate for use in marine applications. Independent tests have found that pure biodiesel (B100) is non-toxic, readily biodegradable and essentially free of sulfur and aromatics.

Biodiesel is easy on boaters. Ves-

sel operators report a noticeable change in exhaust odor. The reduction in smell and change of odor are more palatable with engine workers. In fact, it's been compared to the smell of French fries. Biodiesel users also report having no eye irritation, compared to petroleum diesel exhaust.

Biodiesel is biodegradable. In tests performed by the University of Idaho, biodiesel in an aqueous solution after 28 days was 95 percent degraded. Diesel fuel was only 40 percent degraded. In a second study done in an aquatic environment, various biodiesel products were 85.5-88.5 percent degraded in 28 days, which is the same rate as sugar (dextrose). Diesel degradation was 26.24 percent.

Biodiesel helps speed diesel degradation when used in blends with petroleum diesel fuel. Biodiesel degrades about four times faster than petroleum diesel fuel. Also, when blended with biodiesel, the degradation rate of petroleum diesel

tripled when compared to diesel alone, according to a 1995 University of Idaho test.

For research vessels and consumers using commercial vessels, biodiesel offers a more environmentally-friendly alternative to regular diesel, especially in sensitive or protected waterway areas.

Biodiesel blends are safer, too. Biodiesel has a higher flash point - a minimum of 200 degrees versus about 125 degrees Fahrenheit for regular #2 diesel. Biodiesel also offers low-pressure storage at ambient temperatures, handles like diesel and is safer to transport.

Biodiesel has higher lubricity. Biodiesel blended at a 20 percent rate with petroleum diesel has a lower wear scar than traditional fuel. At the 20 percent blend level, biodiesel shows improved lubricity with low sulfur petroleum diesel containing high or low aromatic levels. Start-up, power, range and cold-weather performance characteristics are similar to diesel.

Find it: Biodiesel stations now mapped for truckers

Truckers can now use their laptops or any computer to find truck-accessible biodiesel fueling sites along their planned routes.

The National Biodiesel Board (NBB) and ProMiles have announced the availability of biodiesel locations in ProMiles XF, the commercial vehicle/truck routing and mileage software for professional drivers and fleets.

"I've been a ProMiles user for years and I rely on it for all of my routing," said Tony Hamilton, company driver, Dixie Midwest Express, Alabama. "Having biodiesel locations available helps me to use my fuel of choice and incorporate it into

my planning instead of going out of my way to search for it when on the road."

The NBB, ProMiles, the National Renewable Energy Laboratory (NREL), and the Oil Price Information Service (OPIS) are working together to produce a continuously updated and accurate list of truck-accessible biodiesel locations to be included in mapping software. This first set of locations is now incorporated into ProMiles software and available for truckers.

ProMiles XF software is available on CD and features address-to-address truck routing. Truck accessible fueling locations are clearly marked

for pre-route planning or on-the-road searches, without the need for Internet access.

Now, truck accessible fueling locations that carry biodiesel can be found, along with information including the blend, such as B20 (20% biodiesel and 80% petro-diesel), hours of operation, and more. Utilizing OPIS IDs to identify the fueling locations ensures accuracy. The first release of software includes a subset of truck accessible biodiesel locations out of the nearly 600 that are identified on the NBB's trucking Web site, Biotrucker.com. The NBB will continue to add more locations as OPIS IDs are assigned.

On the road: Fleets choose biodiesel

Biodiesel offers fleet operators a safer, cleaner alternative to petroleum diesel.

Biodiesel is a cost effective tool when complying with federal regulations. Federal, state and alternative fuel provider fleets who must comply with the Energy Policy Act (EPAAct) and Executive Orders can use biodiesel to meet up to 50 percent of their light duty alternative fueled vehicle purchase requirements with biodiesel.

Fleets must purchase and use the equivalent of 450 gallons of pure biodiesel in a minimum of a 20% blend to earn one AFV credit.

Biodiesel operates in conventional engines. Biodiesel blends operate in diesel engines, from light to heavy-duty, just like petroleum diesel. B20 works in any diesel engine with few or no modifications to the engine or the fuel system, and provides similar horsepower, torque, and mileage as diesel.

Biodiesel does not require special storage. In fact, in its pure form or in blends, biodiesel can be stored wherever petroleum diesel is stored, except in concrete-lined tanks. Acceptable storage tank materials include aluminum, steel, fluorinated polyethylene, fluorinated polypropylene and Teflon.

The fuel should be stored in a clean, dry, dark environment. At higher blend levels, biodiesel may deteriorate natural rubber or polyurethane foam materials.

Biodiesel also has a higher flash point, handles like diesel and is safe to transport. Users should be sure to verify compatibility with materials exposed to neat biodiesel. Blends are compatible with a broad range of materials.

Biodiesel costs rank well with other alternatives available to fleets.

Compared to other alternative fuels, biodiesel doesn't require any special vehicles or special changes to refueling or garages. It also doesn't require any retraining of mechanics.

Given the other advantages of biodiesel, an emission management system with biodiesel is a least-cost alternative for fleets.

A study by Booz-Allen & Hamilton, Inc., found fleets using a 20 percent biodiesel blend would experience lower total annual costs than other alternative fuels.

Similarly, results reported by the University of Georgia indicate biodiesel-powered buses are com-



With help from the soybean checkoff, this biodiesel pump at the Citgo near the Pentagon in Arlington, Va., was opened. It is operated by the Navy Exchange but is public access.

petitive with other alternatively fueled buses, even if biodiesel prices as high as \$3 per gallon.

On the farm: Biodiesel helps farmers

Nearly half of farmers nationwide use biodiesel blends on their farm. Biodiesel provides an opportunity for farmers to create demand for the crops they grow through on-farm use. Farmers' commitment to biodiesel is reflected in their investment in the product through soybean checkoff dollars.

The soybean checkoff is a national program which is farmer-funded through an assessment at the first point of sale of their soybeans.

Under the soybean checkoff, one-half of one percent of the net market value of the soybeans is "checked off" for research, marketing and education. Soybean checkoff dollars provide a lot of support toward the research and development of biodiesel, and today they continue to support marketing of the fuel.

The soybean industry has encouraged all farmers to ask their fuel distributors to carry biodiesel in at least a two percent blend (B2). Building demand at a grassroots level is critical to the addition of biodiesel to terminals on a large national scale.

Although biodiesel is compatible with existing diesel technology, including diesel tanks and other infrastructure, some petroleum distributors may choose to have separate tanks for biodiesel. Adding those tanks now to meet farmer demand will help ensure that the infrastructure is in place to meet increased demand from the general public.

Soybean demand is key to increasing soybean prices. Several studies have quantified the economic and social benefits of widespread commercialization of biodiesel. The benefits of using biodiesel are shown to accrue to farmers, local communities, and the nation as a whole.

Biodiesel use benefits farmers. Biodiesel is a high-quality product to use in farm equipment. Even low blends of biodiesel like B2 and B5 offer exceptional lubricity, thus slowing engine wear and tear. Plus, it is a cleaner-burning fuel that is friendlier to the user and the environment.

Medford Township: 10 years of cleaner air

A decade later, biodiesel blends are still making the grade in New Jersey

Medford, New Jersey School District began using B20 in 1997. According to Joe Biluck, Director of Operations and Technology, the fuel has performed well even in temperatures as low as eleven degrees below zero.

“Biodiesel offers the best option to increase our reliance on domestic, renewable fuels while producing significant results in terms of emission reduction,” said Biluck. “Biodiesel’s primary attraction is its ease of integration coupled with the fact it is a technology that is not capital intensive and can be applied to older units as well as today’s vehicles.”

When the last school bell rings in Medford, NJ, many of the kids who take the school bus home ride in buses fueled by biodiesel.

“It’s been absolutely fantastic,”

said Joe Biluck, Jr., director of operations and technology for the district. “We’ve had no down time as a result of this fuel. We’ve seen no drop in miles per gallon, which means the engines aren’t working any harder.”

Biodiesel has given the school district year-round dependability.

“We’ve never had a fuel system gel up on us,” Biluck said. “We’ve run down to temperatures of 11 degrees below zero and haven’t experienced any problems.”

Biluck says the kids seem to notice a positive difference in the fumes, too.

“We transport a fair amount of physically and mentally disabled students,” he said.

“One driver who drives a bus running on biodiesel told me she’s really noticed a difference in the fumes

her bus gives out compared to those just running on diesel. She said her kids weren’t struggling to breathe when she was unloading them on the lifts. The tailpipes happen to be right there so you can see these kids’ reactions to the diesel fumes - they just don’t like it. And the biodiesel vehicles have a significantly less obnoxious smell to them.”

In Warwick, R.I., the school district has used soy biodiesel in its buses and heating boilers, and extended biodiesel into the curriculum. Their program was modeled after the curriculum developed by the Northeast Sustainable Energy Association (www.nesea.org). The National Energy Education Development project (www.need.org) also provides a biodiesel-based curriculum for middle and secondary school students.

“Biodiesel offers the best option to increase our reliance on domestic, renewable fuels while producing significant results in terms of emission reduction ...”

Students, drivers, schools love biodiesel blends



Above, a biodiesel-powered school bus in Maryland competes in the state’s annual safety competition. Biodiesel blends provide similar performance with cleaner emissions, so the fuel reduces the amount of fine particulates in schoolyard air. Fine particulates have been implicated in asthma and bronchitis.

School buses are one of the largest mass transit programs in the United States. Every school day, some 440,000 yellow school buses transport more than 24 million children to and from schools and school-related activities. The vast majority of the school buses are powered by heavy-duty diesel engines and consume conventional #2 diesel fuel.

Anyone who has ever had to sit in traffic behind a diesel-fueled bus will understand concerns about children who ride buses to and from school each day.

Pollution from diesel vehicles has health implications for everyone, especially children. The use of biodiesel can reduce that threat. Because it works in any diesel engine with few or no modifications, biodiesel offers schools a relatively inexpensive option for an immediate solution to air quality concerns. As a result, several thousand school buses in the United States now are running on blends of biodiesel and reporting success.

Do something nice for your engine.



Hard-working diesel engines deserve a little pampering. So treat yours to soy biodiesel. For about the same price you're paying now, a 2 percent blend, called B2, can significantly reduce engine wear without sacrificing horsepower, torque or fuel consumption.

Show your engine a little appreciation. Find out more at biodiesel.org, and visit BQ-9000.org for a list of certified suppliers.

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Soy biodiesel. Another innovation from soybean farmers and their checkoff. Find out more!

Delaware Soybean Board
www.desoybeans.org

Maryland Soybean Board
www.mdsoy.org

New Jersey Soybean Board

Pennsylvania Soybean Board
Northeast Region Soybean Board
www.pasoybean.org