

## Biodiesel and the Diesel Vehicle Market: Primed for Growth

In the last year, the biodiesel industry has achieved major milestones that will expand biodiesel's role in the nation's fuel supply. Production of biodiesel, a domestically produced renewable alternative to diesel fuel that can be used in any diesel engine, topped 450 million gallons in 2007. Dozens of new biodiesel plants began production. Certification of biodiesel companies through the BQ-9000 fuel quality assurance program grew three-fold. Several automakers announced their approval of blends of 20 percent biodiesel (B20) or higher. A blended fuel specification for B6 – B20 came one step closer to passing, opening the door for even greater automaker approval. Capping off the year of progress, the recently passed Energy Bill contained an expanded Renewable Fuels Standard that sets a renewable requirement in the diesel fuel pool. Biodiesel and other renewable biomass-based diesel fuels will meet that requirement, expanding the diversity of the nation's fuel supply.

The National Biodiesel Board (NBB) has set a goal of replacing the equivalent of 5 percent of the nation's on-road diesel fuel with biodiesel by 2015. That amount is roughly equal to the amount of diesel fuel currently produced from crude oil imported from Iraq, or about ¼ of the diesel imported from the Persian Gulf.

According to the [Alliance of Automobile Manufacturers](#), there are now more than 4.8 million diesel cars, pickups and SUVs registered in the United States.

Most analysts expect continued growth in the diesel market. Researchers at J.D. Power and Associates predict that diesel sales will approximately triple in the next 10 years, accounting for more than 10 percent of U.S. vehicle sales by 2015 – up from 3.6 percent in 2005.

Fueling this rapid growth is the fact that diesel vehicles are now much cleaner and incredibly fuel efficient, typically getting 20 to 40 percent more miles to the gallon than a comparable gasoline engine. **So far in 2008, 12 auto manufacturers have announced or introduced at least 13 diesel models to the U.S. market** and unveiled four concept cars with a diesel powertrain. Thus, the growing resurgence of clean diesel technology in the U.S., coupled with the additional environmental and economic benefits of biodiesel, are giving American consumers more options to "drive green" than ever before!

**Check out the list below for a full host of Diesel Vehicles currently available in the U.S., as well as a sign of things to come.**

**For more information on biodiesel and clean diesel technology, visit [www.biodiesel.org](http://www.biodiesel.org) or [www.dieselforum.org](http://www.dieselforum.org)**

- o Information was current at the time of this publication in January 2008
- o Vehicle specifications obtained from information available on manufacturers' websites and product literature – follow links to their official company sites for more details
- o Note: Vehicles referenced as available in 42 states exclude the states of: California, Connecticut, Maine, Massachusetts, New York, Pennsylvania, Rhode Island and Vermont, where more stringent emissions standards apply

## 2008 DIESEL VEHICLES FOR SALE IN THE U.S.

### Cars, Trucks and SUVs

Fuel economy information from the U.S. Environmental Protection Agency and can be found at [fuelconomy.gov](http://fuelconomy.gov). Additional information on Powertrain, Torque and Horsepower ratings has been supplied by vehicle manufacturers.

### 2008 Jeep Grand Cherokee CRD



[View the official site](#)

#### Diesel Model

Powertrain - 3.0L V6  
Turbo Diesel  
Maximum Torque - 376  
lbs/ft @ 1600-2800 rpm  
Maximum Horsepower -  
215 hp @ 3800 rpm  
Fuel Economy (mpg)  
City - 18 / Highway - 23  
Highway Range - 450 mi.  
Available in 42 states

Diesel now available in  
Laredo, Limited &  
Overland models, 4x2  
and 4x4 options

Approved for B5  
Biodiesel and receives B5  
factory fill from the  
manufacturer

#### Gas Model

Powertrain - 3.7L V6  
Maximum Torque - 235  
lbs/ft @ 4000 rpm  
Maximum Horsepower -  
210 hp @ 5200 rpm  
Fuel Economy (mpg)  
City - 15  
Highway - 20  
Highway Range - 316.5  
miles (city)/422 miles  
(highway)

### 2008 Mercedes-Benz E320 BLUETEC Sedan



[View the official site](#)

#### Diesel Model

Powertrain - 3.0L 24-  
valve V6  
Maximum Torque - 400  
lbs/ft @ 1600-2400 rpm  
Maximum Horsepower -  
210 hp @ 3800 rpm  
Fuel Economy (mpg)  
City - 23 / Highway - 32  
Available in 42 states

Approved for B5  
Biodiesel

#### Gas Model (E350)

Powertrain - 3.5L 24-  
valve V6  
Maximum Torque - 258  
lbs/ft @ 2400-5000 rpm  
Maximum Horsepower -  
268 hp @ 6000 rpm  
Fuel Economy (mpg)  
City - 17  
Highway - 24

## 2008 Mercedes-Benz GL320 CDI



[View the official site](#)

### Diesel Model

Powertrain - 3.0L 24-valve V6  
Maximum Torque - 398 lbs/ft @ 1600-2800 rpm  
Maximum Horsepower - 215 hp @ 3800 rpm  
Fuel Economy (mpg)  
City - 18 / Highway - 24

Available in 42 states

Approved for B5 Biodiesel

### Gas Model (GL450)

Powertrain - 4.6L 32-valve V8  
Maximum Torque - 339 lbs/ft @ 2700-5000 rpm  
Maximum Horsepower - 335 hp @ 6000 rpm  
Fuel Economy (mpg)  
City - 13 / Highway - 18

## 2008 Mercedes-Benz ML320 CDI



[View the official site](#)

### Diesel Model

Powertrain - 3.0L 24-valve V6  
Maximum Torque - 398 lbs/ft @ 1600-2400 rpm  
Maximum Horsepower - 215 hp @ 4000 rpm  
Fuel Economy (mpg)  
City - 18 / Highway - 24  
Available in 42 states

Approved for B5 Biodiesel

### Gas Model (ML350)

Powertrain - 3.5L 24-valve V6  
Maximum Torque - 258 lbs/ft @ 2400-5000 rpm  
Maximum Horsepower - 268 hp @ 5000 rpm  
Fuel Economy (mpg)  
City - 15  
Highway - 20

## 2008 Mercedes-Benz R320 CDI



[View the official site](#)

### Diesel Model

Powertrain - 3.0L 24-valve V6  
Maximum Torque - 398 lbs/ft @ 1600-2400 rpm  
Maximum Horsepower - 215 hp @ 4000 rpm  
Fuel Economy (mpg)  
City - 18 / Highway - 24  
Available in 42 states

Approved for B5 Biodiesel

### Gas Model (R350)

Powertrain - 3.5L 24-valve V6  
Maximum Torque - 258 lbs/ft @ 2400-5000 rpm  
Maximum Horsepower - 268 hp @ 6000 rpm  
Fuel Economy (mpg)  
City - 15  
Highway - 19

## 2008 Volkswagen Touareg 2 V10 TDI Twinturbo



[View the official site](#)

### **Diesel Model**

Powertrain - 5.0L V10  
Maximum Torque - 553  
lbs/ft @ 2000 rpm  
Maximum Horsepower -  
310 hp @ 3750 rpm  
Fuel Economy (mpg)  
City - 15 / Highway - 20  
Highway Range - 581 mi  
Available in 42 states

Approved for B5  
Biodiesel

### **Gas Model**

Powertrain - 3.6L VR6  
Maximum Torque - 265  
lbs/ft @ 2500-5000 rpm  
Maximum Horsepower -  
280 hp @ 6200 rpm  
Fuel Economy (mpg)  
City - 14  
Highway - 19

## Heavy-Duty Trucks, Pickups and SUVs

The U.S. EPA does not rate vehicles with a gross vehicle weight over 8500 lbs. Click [here](#) to read the official EPA test requirements. Information on Powertrain, Torque and Horsepower has been provided by vehicle manufacturers.

## 2008 Chevy Silverado 2500HD / 3500HD



[View the official site](#)

### **Diesel Model**

Powertrain - Duramax  
6.6L Turbo Diesel V8  
Maximum Torque -  
660/895 lbs/ft @ 1600  
rpm  
Maximum Horsepower -  
365 hp @ 3200 rpm  
Fuel Economy (mpg) -  
City - 15 / Highway - 20  
Available in all 50 states

Approved for B5 Biodiesel  
with B20 capability as a  
Special Equipment Option  
for Fleets

### **Gas Model**

Powertrain - Vortec 6.0L  
V8 (Gas)  
Maximum Torque - 373  
/506 lbs/ft @ 4400 rpm  
Maximum Horsepower -  
353 hp @ 5400 rpm  
Fuel Economy (mpg)  
City - 15  
Highway - 20

*Mileage data provided by Intellichoice.com. This mileage is listed for the 2008 GMC Sierra 2500 HD Extended Cab SLT 2WD Long Bed configuration.*

## 2008 Dodge Ram 2500/3500 Regular/Quad Cab



[View the official site](#)

### **Diesel Model**

Powertrain - 6.7L  
Cummins Turbo Diesel  
Maximum Torque - 650  
lbs/ft @ 1600 rpm  
Maximum Horsepower -  
325 hp @ 2900 rpm  
Fuel Economy (mpg)  
City - 12 / Highway - 17  
Available in all 50 states

Approved for use of B20  
Biodiesel by approved  
fleets; receives B5  
factory fill

### **Gas Model**

Powertrain - 5.7L V8  
Maximum Torque - 375  
lbs/ft @ 4200 rpm  
Maximum Horsepower -  
345 hp @ 5200 rpm  
Fuel Economy (mpg)  
City - 13  
Highway - 19

*Mileage data provided by Intellichoice.com. This mileage is listed for the 2008 Dodge Ram 2500 Mega Cab Laramie 2WD configuration of the Ram.*

## 2008 Ford Super Duty F250



[View the official site](#)

### **Diesel Model**

Powertrain - 6.4L  
PowerStroke V8 Turbo  
Diesel  
Maximum Torque - 650  
lbs/ft @ 2000 rpm  
Maximum Horsepower -  
350 hp @ 3000 rpm  
Fuel Economy (mpg)  
City - 12 / Highway - 16

Approved for B5  
Biodiesel

### **Gas Model**

5.4L Triton V8  
Maximum Torque - 365  
lbs/ft @ 3750 rpm  
Maximum Horsepower -  
300 hp @ 5000 rpm  
Fuel Economy (mpg)  
City - 13  
Highway - 17

*Mileage data provided by Intellichoice.com. This mileage is listed for the 2008 Ford Super Duty F250 Regular Cab XL 4WD configuration.*

## 2008 GMC Sierra 2500/3500 HD



[View the official site](#)

### **Diesel Model**

Powertrain - Duramax  
6.6L Turbo Diesel V8  
Maximum Torque - 660  
lbs/ft @ 1600 rpm  
Maximum Horsepower -  
365 hp @ 3200 rpm  
Fuel Economy (mpg)  
City - 13 / Highway - 18  
Available in all 50 states

Approved for B5  
Biodiesel with B20  
capability as a Special  
Equipment Option for  
Fleets

### **Gas Model**

Powertrain - Vortec 6.0L  
V8 (Gas)  
Maximum Torque - 373  
lbs/ft @ 4000 rpm  
Maximum Horsepower -  
353 hp @ 5400 rpm  
Fuel Economy (mpg)  
City - 13  
Highway - 18

*Mileage data provided by Intellichoice.com.  
This mileage is listed for the 2008 GMC Sierra  
2500 HD Extended Cab SLT 2WD Long Bed  
configuration.*

## Other Diesel Vehicles -

## 2008 Chevrolet Express 2500 Work Van



[View the official site](#)

### **Diesel Model**

Powertrain - 6.6L V8  
Duramax Turbo-Diesel  
Maximum Torque - 460  
lbs/ft @ 1600 rpm  
Maximum Horsepower -  
250 hp @ 3200 rpm  
Fuel Economy (mpg)  
City - 12 /Highway - 16  
Available in all 50 states

Approved for B5  
Biodiesel

### **Gas Model**

Powertrain - 6.0L V8  
(Gas)  
Maximum Torque - 360  
lbs/ft @ 4000 rpm  
Maximum Horsepower -  
300 hp @ 4400 rpm  
Fuel Economy (mpg)  
City - 12  
Highway - 16

*Mileage data provided by Intellichoice.com.  
This mileage is listed for the 2008 Chevrolet  
Express 2500.*

## 2008 Dodge Sprinter Van



[View the official site](#)

### Diesel Model

Powertrain - 3.0L V6 CRD  
Turbodiesel  
Maximum Torque - 280  
lbs/ft @ 1200-2400 rpm  
Maximum Horsepower -  
154 hp @ 4000 rpm  
Fuel Economy (mpg)  
City - Not available  
Highway - Not available  
Available in all 50 states

Approved for B5  
Biodiesel

### Gas Model

Powertrain - 3.5L V6  
Maximum Torque - 250  
lbs/ft @ 2500-5000 rpm  
Maximum Horsepower -  
254 HP @ 5900 rpm  
Fuel Economy - Not  
Available

## 2008 Ford E-Series Full Size E350 Van



[View the official site](#)

### Diesel Model

Powertrain - 6.0L  
PowerStroke 32-valve V8  
Maximum Torque - 440  
lbs/ft @ 2000 rpm  
Maximum Horsepower -  
235 hp @ 3300 rpm  
Fuel Economy (mpg)  
City - 14 / Highway - 19

Approved for B5 Biodiesel

### Gas Model

Powertrain - 4.6L Triton  
SOHC SEFI 16-valve V8  
Maximum Torque - 286  
lbs/ft @ 3500 rpm  
Maximum Horsepower - 225  
hp @ 4800 rpm  
Fuel Economy (mpg)  
City - 14  
Highway - 19

*Mileage data provided by Intellichoice.com. This mileage is listed for the 2008 Ford E150 Super Duty XL Passenger Wagon.*

## 2008 GMC Savana 2500/3500 Cargo Van



[View the official site](#)

### Diesel Model

Powertrain - Duramax  
6.6L Turbo Diesel  
Maximum Torque - 460  
lbs/ft @ 1600 rpm  
Maximum Horsepower -  
250 hp @ 3200  
Fuel Economy (mpg)  
City - 12 / Highway - 16  
Available in all 50 states

Approved for B5 Biodiesel

### Gas Model

Powertrain - Vortec 6.0L V8  
Maximum Torque - 360  
cu/ft @ 4000 rpm  
Maximum Horsepower -  
300 hp @ 4400 rpm  
Fuel Economy (mpg)  
City - 12  
Highway - 16

*Mileage data provided by Intellichoice.com. This mileage is listed for the 2008 GMC Savana 2500 Cargo Van Extended.*

## New Diesel Vehicles Coming Soon:

### Acura



Working in tandem with HONDA, Acura is reportedly considering a diesel version of the MDX sport utility vehicle for the U.S. market.

Read the [news story](#) here.

### Audi



**A4 Sedan**  
Arriving 2009

Read AUDI's [official announcement](#) about the diesel technology used in both the company's planned U.S. offerings.




### Audi



**Q7 SUV**  
Arriving 2009

[Click here](#) to view additional information about the Q7's American debut



<p><b>BMW</b></p>	
	<p>BMW Group debuted these two new models equipped with the BMW Advanced Diesel with BluePerformance at the 2008 North American International Auto Show in Detroit. Click <a href="#">here</a> to read more.</p>
<p><b>BMW X5 xDrive 35d</b> <b>Arriving Fall 2008</b></p>	
 <p><b>BMW 335d</b> <b>Arriving Fall 2008</b></p>	
<p><b>Chrysler</b></p> 	<p>Building on existing success with other models, Chrysler is planning to use new engines from Cummins in light-duty Dodge pickup trucks and Jeep vehicles. Click <a href="#">here</a> to read more. The company may also be considering a <b>diesel minivan</b> for the American market.</p>
<p><b>Ford</b></p>  <p><b>F-150 Light Truck</b> <b>Arriving 2010</b></p>	<p>Ford is aiming to develop the first light-duty diesel truck for the U.S. market. The engine is expected to be a 3.6L V8. Read the <i>Automotive News</i> <a href="#">report</a> to learn more.</p>

**General Motors**



**HUMMER H2 SUV  
Arriving 2010**

GM is expected to offer a new V8 turbo diesel with a 30% gain in fuel economy over the gasoline version. Read the [Automotive News article](#) to learn more.

**General Motors**



**Cadillac CTS Sedan  
Arriving 2010**

The V6 diesel engine that powers the CTS provides over 400 ft-lb of torque, outperforming even a V8 gasoline engine. Read more in [Diesel Power magazine](#).

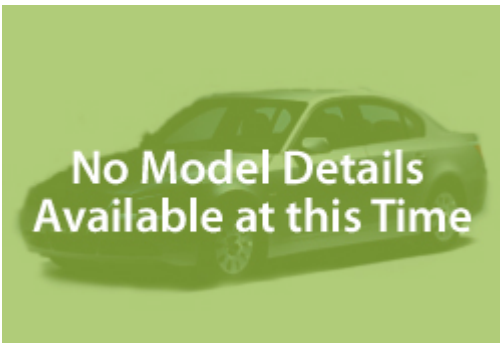
**General Motors**



**Saturn Aura Sedan  
Arriving 2010**

A video posting on GM blog <http://fastlane.gmblogs.com> confirmed a diesel offering for the Saturn Aura. A diesel-hybrid version of the engine was shown at the Frankfurt Auto Show. The GM blog also features more "green initiatives" announced at the 2008 North American International Auto Show in Detroit.

**Honda**



Honda is currently developing a strategy for diesel offerings in the U.S. expected to arrive in 2009-2010. The company is already engineering a four-cylinder engine designed to meet Tier 2 Bin 5 emissions standards. [Read more](#) about Honda's U.S. diesel plans.

## Hyundai



**Veracruz SUV**  
Arriving 2009 or 2010

A diesel powertrain system is being developed for the recently-introduced Veracruz SUV. Read the [CNN story](#) to learn more.

## Mazda



10/18/07

Mazda Motor showcased a variety of advanced powertrain systems and new safety technologies at the [2007 Tokyo Auto Show](#).

Its display featured a next-generation gasoline direct-injection four-cylinder engine, a next-generation "clean diesel" engine and a next-generation Renesis rotary engine, as well as a new Smart Idle Stop System.

Source: Edmunds.com

## Nissan



**Titan Light Truck**  
Arriving by 2009

Nissan is developing the Titan pickup truck with a diesel engine in order to provide more options for heavy-duty users as well as greater fuel efficiency. Read the related [AutoWeek story](#).

## Nissan



**Maxima Sedan  
Arriving 2010**

Nissan is co-developing a 50-state emissions compliant diesel engine with Renault. The [company's announcement](#) stressed diesel's potential to reduce emissions from several models offered by the company.

[Click here to read more](#)

## Volkswagen







**VW Jetta Sedan  
Arriving summer 2008**

[Read more](#) about the emissions reduction technology used in the diesel Jetta, or read the new Edmunds.com [profile](#) on the vehicle.



**VW Jetta SportWagen  
Arriving late 2008**

With a 2.0L 4 cylinder clean diesel engine, the Jetta SportWagen is expected to add utility and practicality to the Jetta series, along with greater fuel efficiency. Read more about the product debut [here](#).

<b>Volkswagen</b>	
	<p>Billed as a smaller version of the Volkswagen Touareg, the Tiguan is equipped with an all-new "Clean TDI" diesel powertrain system. Read Volkswagen's <a href="#">announcement</a> for more information.</p>
<p style="text-align: center;"><b>VW Tiguan CUV Arriving 2009</b></p>	
<b>Volkswagen</b>	
	<p>The Passat is expected to use a unique combination of new engine technology and selective catalytic reduction to make it the "cleanest TDI ever." Read more about <a href="#">Volkswagen's plans</a> for increasing their diesel offerings in the U.S.</p>
<p style="text-align: center;"><b>VW Passat Sedan Arriving 2009</b></p>	
<b>Volvo</b>	<p>4/10/2007</p>
	<p>A decision has been made to not bring diesel or flex-fuel variants of the S40 and V50 to the States, according to Volvo spokesman Dan Johnston. Johnston said Volvo will offer a single engine choice here, the 2.5-liter inline-5 that has been tweaked to make 227 horsepower. Johnston said the torque number will also "move up a bit." The specific torque number is not yet available. The 2007 2.5-liter inline-5 delivers 236 pound-feet of torque. The 2008 2.5-liter inline-5 will be mated to a choice of a six-speed manual or six-speed automatic transmission. <b>Source:</b> Edmunds.com</p>
<b>Toyota Sequoia</b>	
	<p>Toyota will offer the Tundra pickup truck and the Sequoia SUV with a clean-diesel V8 engine soon. <a href="#">Click here to read more.</a></p>

## Toyota Tundra



Toyota will offer the Tundra pickup truck and the Sequoia SUV with a clean-diesel V8 engine soon.

[Click here to read more.](#)