

HYBRID-ELECTRIC VEHICLES

It's no accident the most fuel-efficient vehicles in some classes for the 2006 model year are hybrid-electric vehicles (HEVs). Hybrids combine the best features of the internal combustion engine with an electric motor and can significantly improve fuel economy without sacrificing performance or driving range. HEVs may also be configured to provide increased performance or provide electrical power to auxiliary loads such as power tools.

HEVs are primarily propelled by an internal combustion engine (ICE), just like conventional vehicles. However, they also convert energy normally wasted during coasting and braking into electricity, which is stored in a battery until needed by the electric motor. The electric motor assists the engine when accelerating or hill climbing and at low speeds where internal combustion

engines are least efficient. Unlike all-electric vehicles, HEVs now being offered do not need to be plugged into an external source of electricity to be recharged; conventional gasoline and regenerative braking provide all the energy the vehicle needs.

Potential buyers should also be aware that the federal government is currently offering tax incentives for HEVs. Some states also offer incentives. Additional information on HEVs, including tax incentives, can be found at www.fueleconomy.gov.

Annual fuel cost is estimated assuming 15,000 miles of travel each year (55% city and 45% highway) and a gasoline fuel cost of \$2.20 per gallon (regular unleaded).

	Trans Type / Speeds	Eng Size / Cylinders	MPG City / Hwy	Annual Fuel Cost	Battery Size / Type
TWO SEATERS					
HONDA					
Insight	AV	1.0/3	..57/56	..... \$591	... 144 V, Ni-MH
.....	M5	1.0/3	..60/66	..... \$525	... 144 V, Ni-MH
COMPACT CARS					
HONDA					
Civic Hybrid	AV	1.3/4	..49/51	..... \$660	... 158 V, Ni-MH
MIDSIZE CARS					
HONDA					
Accord Hybrid	A-5	3.0/6	..25/34	..... \$1,178	... 144 V, Ni-MH
TOYOTA					
Prius	AV	1.5/4	..60/51	..... \$601	... 202 V, Ni-MH
STANDARD PICKUP TRUCKS 2WD					
CHEVROLET					
C15 Silverado Hybrid 2WD	A-4	5.3/8	..18/21	..... \$1,736	... 42V, Lead-acid
GMC					
C15 Sierra Hybrid 2WD	A-4	5.3/8	..18/21	..... \$1,736	... 42V, Lead-acid
STANDARD PICKUP TRUCKS 4WD					
CHEVROLET					
K15 Silverado Hybrid 4WD	A-4	5.3/8	..17/19	..... \$1,835	... 42V, Lead-acid
GMC					
K15 Sierra Hybrid 4WD	A-4	5.3/8	..17/19	..... \$1,835	... 42V, Lead-acid

	Trans Type / Speeds	Eng Size / Cylinders	MPG City / Hwy	Annual Fuel Cost	Battery Size / Type
SPORT UTILITY VEHICLES 2WD					
FORD					
Escape Hybrid 2WD	AV	2.3/4	..36/31	..... \$1,000	... 330 V, Ni-MH
LEXUS					
RX 400h 2WD	AV	3.3/6	..33/28	..... \$1,099	... 288 V, Ni-MH
TOYOTA					
Highlander Hybrid 2WD	AV	3.3/6	..33/28	..... \$1,099	... 288 V, Ni-MH
SPORT UTILITY VEHICLES 4WD					
FORD					
Escape Hybrid 4WD	AV	2.3/4	..33/29	..... \$1,066	... 330 V, Ni-MH
LEXUS					
RX 400h 4WD	AV	3.3/6	..31/27	..... \$1,138	... 288 V, Ni-MH
MAZDA					
Tribute Hybrid 4WD	AV	2.3/4	..33/29	..... \$1,066	... 330 V, Ni-MH
MERCURY					
Mariner Hybrid 4WD	AV	2.3/4	..33/29	..... \$1,066	... 330 V, Ni-MH
TOYOTA					
Highlander Hybrid 4WD	AV	3.3/6	..31/27	..... \$1,138	... 288 V, Ni-MH

COMPRESSED NATURAL GAS VEHICLES

This section supplies the driving range and fuel economy values for vehicles that operate on compressed natural gas (CNG). CNG fuel is normally dispensed in "equivalent gallons," where one equivalent gallon is equal to 121.5 cubic feet of CNG. Therefore, the fuel economy values are shown in miles per gallon-equivalent. Annual fuel cost estimates are based on an average fuel price of \$1.25 per gasoline equivalent gallon of CNG.

The driving range is shown in miles and represents the distance the vehicle can travel on a full tank (or tanks) of fuel during combined city and highway driving (55% city and 45% highway).

At the time of printing there were no data available for compressed natural gas vehicles. Please check the Fuel Economy Guide's web site (www.fueleconomy.gov) for updates.

ETHANOL FLEXIBLE-FUEL VEHICLES

This section contains the fuel economy and driving range values for ethanol flexible-fuel passenger cars and light trucks. These vehicles are designed to operate on gasoline, E85 (a mixture of 85% ethanol and 15% gasoline), or any mixture of the two fuels. Annual fuel cost is estimated assuming 15,000 miles of travel each year (55% city and 45% highway) and an average fuel cost of \$2.00 per gallon for E85, \$2.20 per gallon for regular unleaded gasoline, and \$2.40 per gallon for premium unleaded gasoline.

Fuel economy and driving range values are shown for both gasoline and E85. When operating your FFV on mixtures of gasoline and E85, such as when alternating between using these fuels, your driving range and fuel economy values will be somewhere between those listed for the two fuels, depending on the actual percentage of gasoline and E85 in the tank.

	Trans Type / Speeds	Eng Size / Cylinders	MPG City / Hwy	Annual Fuel Cost	Fuel	Range (miles)
MIDSIZE CARS						
CHEVROLET						
Monte Carlo	A-4	3.5/6 ..	16/24	\$1,578 ...	E85	330
			21/31	\$1,320 ...	Gas	430
CHRYSLER						
Sebring 4-door	A-4	2.7/6 ..	15/20	\$1,764 ...	E85	270
			21/28	\$1,376 ...	Gas	390
Sebring 4-door (2-Mode)	A-4	2.7/6 ..	15/20	\$1,764 ...	E85	270
			21/28	\$1,376 ...	Gas	390
DODGE						
Stratus 4-door	A-4	2.7/6 ..	15/20	\$1,764 ...	E85	270
			21/28	\$1,376 ...	Gas	390
Stratus 4-door (2-Mode)	A-4	2.7/6 ..	15/20	\$1,764 ...	E85	270
			21/28	\$1,376 ...	Gas	390
LARGE CARS						
CHEVROLET						
Impala	A-4	3.5/6 ..	16/23	\$1,578 ...	E85	330
			21/31	\$1,376 ...	Gas	410
FORD						
Crown Victoria	A-4	4.6/8 ..	12/18	\$2,142 ...	E85	280
			17/25	\$1,650 ...	Gas	370
Taurus	A-4	3.0/6 ..	15/20	\$1,764 ...	E85	300
			19/27	\$1,502 ...	Gas	400
LINCOLN						
Town Car	A-4	4.6/8 ..	12/18	\$2,142 ...	E85	280
			17/25	\$1,650 ...	Gas	370
MERCURY						
Grand Marquis	A-4	4.6/8 ..	12/18	\$2,142 ...	E85	280
			17/25	\$1,650 ...	Gas	370
STANDARD PICKUP TRUCKS 2WD						
CHEVROLET						
C1500 Silverado 2WD	A-4	5.3/8 ..	12/16	\$2,142 ...	E85	310/480
			16/20	\$1,835 ...	Gas	420/610
DODGE						
Ram 1500 Pickup 2WD	A-5	4.7/8 ..	9/11	\$3,000 ...	E85	260
			12/15	\$2,538 ...	Gas	340
FORD						
F-150 Pickup 2WD FFV	A-4	5.4/8 ..	11/14	\$2,499 ...	E85	310
			14/19	\$2,062 ...	Gas	420
GMC						
C1500 Sierra 2WD	A-4	5.3/8 ..	12/16	\$2,142 ...	E85	310/480
			16/20	\$1,835 ...	Gas	420/610
NISSAN						
Titan 2WD	A-5	5.6/8 ..	10/14	\$2,499 ...	E85	310/330
			14/19	\$2,062 ...	Gas	420/450
STANDARD PICKUP TRUCKS 4WD						
CHEVROLET						
K1500 Silverado 4WD	A-4	5.3/8 ..	11/14	\$2,307 ...	E85	310/440
			15/19	\$2,062 ...	Gas	420/580

	Trans Type / Speeds	Eng Size / Cylinders	MPG City / Hwy	Annual Fuel Cost	Fuel	Range (miles)
DODGE						
Ram 1500 Pickup 4WD	A-5	4.7/8 ..	9/11	\$3,000 ...	E85	260
			12/15	\$2,538 ...	Gas	340
FORD						
F-150 Pickup 4WD FFV	A-4	5.4/8 ..	10/13	\$2,727 ...	E85	290
			14/18	\$2,201 ...	Gas	390
GMC						
K1500 Sierra 4WD	A-4	5.3/8 ..	11/14	\$2,307 ...	E85	310/440
			15/19	\$2,062 ...	Gas	420/580
NISSAN						
Titan 4WD	A-5	5.6/8 ..	10/13	\$2,727 ...	E85	310/330
			14/18	\$2,201 ...	Gas	420/450
MINIVANS 2WD						
DODGE						
Caravan 2WD	A-4	3.3/6 ..	13/17	\$2,142 ...	E85	280
			19/26	\$1,571 ...	Gas	420
SPORT UTILITY VEHICLES 2WD						
CHEVROLET						
C1500 Avalanche 2WD	A-4	5.3/8 ..	11/14	\$2,499 ...	E85	310/480
			14/19	\$2,062 ...	Gas	420/610
C1500 Suburban 2WD	A-4	5.3/8 ..	11/14	\$2,499 ...	E85	310/480
			14/19	\$2,062 ...	Gas	420/610
C1500 Tahoe 2WD	A-4	5.3/8 ..	11/15	\$2,307 ...	E85	310/480
			15/20	\$1,940 ...	Gas	420/610
DODGE						
Durango 2WD	A-5	4.7/8 ..	9/11	\$3,000 ...	E85	260
			12/15	\$2,538 ...	Gas	340
GMC						
C1500 Yukon 2WD	A-4	5.3/8 ..	11/15	\$2,307 ...	E85	310/480
			15/20	\$1,940 ...	Gas	420/610
C1500 Yukon XL 2WD	A-4	5.3/8 ..	11/14	\$2,499 ...	E85	310/480
			14/19	\$2,062 ...	Gas	420/610
SPORT UTILITY VEHICLES 4WD						
CHEVROLET						
K1500 Avalanche 4WD	A-4	5.3/8 ..	11/14	\$2,499 ...	E85	310/440
			14/18	\$2,062 ...	Gas	420/580
K1500 Suburban 4WD	A-4	5.3/8 ..	11/14	\$2,499 ...	E85	310/440
			14/18	\$2,062 ...	Gas	420/580
K1500 Tahoe 4WD	A-4	5.3/8 ..	11/14	\$2,499 ...	E85	310/440
			14/18	\$2,062 ...	Gas	420/580
DODGE						
Durango 4WD	A-5	4.7/8 ..	9/11	\$3,000 ...	E85	260
			12/15	\$2,538 ...	Gas	340
GMC						
K1500 Yukon 4WD	A-4	5.3/8 ..	11/14	\$2,499 ...	E85	310/440
			14/18	\$2,062 ...	Gas	420/580
K1500 Yukon XL 4WD	A-4	5.3/8 ..	11/14	\$2,499 ...	E85	310/440
			14/18	\$2,062 ...	Gas	420/580

FUEL CELL VEHICLES

Fuel cell vehicles (FCVs) may not reach the mass market for a decade or more, but a limited number will be available for sale or lease in 2005-06 to demonstration fleets in areas with a readily accessible hydrogen supply. FCVs are propelled by electric motors powered by fuel cells, which produce electricity from the chemical energy of hydrogen. Fuel cell technology is more efficient than internal combustion engines and environmentally cleaner—the only byproduct of a hydrogen fuel cell is water. However, many challenges must be overcome before FCVs are mass-marketed and sold at local dealerships. For more information about FCVs, visit www.fueleconomy.gov and the Hydrogen, Fuel Cells & Infrastructure Technologies Program Web site at www.eere.energy.gov/hydrogenandfuelcells/.

Motor	Energy Storage Device	Fuel	Miles per Kilogram (City/Hwy)	Range (miles)	
SUBCOMPACT CARS					
HONDA					
FCX	80 kW DC Brushless	Ultra Capacitor, 9.2 Farad	Hydrogen	62/51	210
MERCEDES-BENZ					
F-Cell	65 kW Induction	200 V Ni-MH Battery	Hydrogen	57-58	100
COMPACT CARS					
FORD					
Focus FWD	65 kW AC Induction	216 V Ni-MH	Hydrogen	48/53	200

kw = kilowatts; DC = direct current; AC = alternating current

DIESEL VEHICLES

Diesel-powered vehicles typically get 30-35% more miles per gallon than comparable vehicles powered by gasoline. Diesel engines are inherently more energy efficient, and diesel fuel contains 10% more energy per gallon than gasoline. In addition, new advances in diesel engine technology have improved performance, reduced engine noise and fuel odor, and decreased emissions of harmful air pollutants. New low-sulfur diesel fuels available beginning in 2006 will help reduce emissions from these vehicles even more.

Annual fuel costs below are estimated assuming 15,000 miles of travel each year (55% city and 45% highway) and a diesel fuel cost of \$2.05 per gallon.

	Trans Type / Speeds	Eng Size / Cylinders	MPG City / Hwy	Annual Fuel Cost	Notes / Abbreviations
SUBCOMPACT CARS					
VOLKSWAGEN					
New Beetle	M-5	1.9/4	37/44	\$769	T
	A-S6	1.9/4	35/42	\$809	T
COMPACT CARS					
VOLKSWAGEN					
Golf	M-5	1.9/4	37/44	\$769	T
	A-S5	1.9/4	33/44	\$830	T
Jetta	M-5	1.9/4	36/41	\$809	T
	A-S6	1.9/4	35/42	\$809	T

	Trans Type / Speeds	Eng Size / Cylinders	MPG City / Hwy	Annual Fuel Cost	Notes / Abbreviations
MIDSIZE CARS					
MERCEDES-BENZ					
E320 CDI	A-5	3.2/6	27/37	\$1,024	T
SPORT UTILITY VEHICLES 4WD					
JEEP					
Liberty/Cherokee 4WD	A-5	2.8/4	22/26	\$1,338	