

## The Toyota Prius Plug-in HEV

*A plug-in hybrid electric car in NREL's advanced technology vehicle fleet*



### Highlights

NREL's advanced vehicle fleet features promising technologies to increase efficiency and reduce emissions—all without sacrificing safety or comfort. The fleet serves as a technology showcase, helping visitors learn about innovative vehicles that are available today or are in development. Vehicles in the fleet are representative of current, advanced, prototype, and emerging technologies.

Toyota Prius Plug-in HEV	
Curb Weight	3278 lb
Length	175.5 in.
Width	68.7 in.
Height	58.7 in.
Peak Motor Power	80 hp
Motor Location	Front
Engine Power	98 hp
Electric Range	13 mi
Seating	5 people
Payload	26.1 ft <sup>3</sup>
Electric Top Speed	60 mph
U.S. Debut	2012 yr
Battery Capacity	5.2 kWh
Battery Voltage	345.6 V
Battery Warranty	8 yr or 100,000 mi
Charging Standards	J1772 (Level 1 & 2)
Transmission	CVT
Drive	Rear
Drag Coefficient	0.25
Wheel Sizes	15 or 17 in.

Toyota Prius plug-in hybrid electric vehicle.  
Photo from Atlantic County Utilities Authority, NREL/PIX 18311

The Toyota Prius plug-in hybrid electric vehicle at the U.S. Department of Energy's National Renewable Energy Laboratory (NREL) is part of a worldwide 600-vehicle demonstration project. In partnership with the University of Colorado, NREL uses the vehicle for grid-integration studies and demonstrating plug-in vehicle synergies with renewable energy.

Plug-in electric vehicles—including all-electric vehicles and plug-in hybrid electric vehicles—provide a new opportunity to reduce oil consumption by drawing on power from the electric grid. To maximize the benefits, the emerging vehicle-charging infrastructure must provide access to clean electricity generated from renewable sources.

Toyota will begin selling the plug-in version of its popular Prius in 2012.

#### References:

[www.toyota.com/prius-hybrid/specs.html](http://www.toyota.com/prius-hybrid/specs.html)

### Contacts

Mike Simpson  
Vehicle Systems Engineer  
303.275.3209  
[Mike.Simpson@NREL.gov](mailto:Mike.Simpson@NREL.gov)

Learn more about NREL's advanced technology vehicle fleet:  
[www.nrel.gov/vehiclesandfuels/project\\_advanced\\_technology.html](http://www.nrel.gov/vehiclesandfuels/project_advanced_technology.html)

### National Renewable Energy Laboratory

1617 Cole Boulevard, Golden, Colorado 80401  
303-275-3000 • [www.nrel.gov](http://www.nrel.gov)

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