PNM Electric Vehicle (EV) Fact Sheet

Driving toward a clean energy future.
Partnering for a clean energy economy.

PLUG-IN ELECTRIC VEHICLES

Plug-in hybrid electric vehicles (PHEVs) and all-electric vehicles (EVs)—also called electric drive vehicles collectively—use electricity either as their primary fuel source or to improve the efficiency of conventional vehicle designs.

PLUG-IN HYBRID ELECTRIC VEHICLES

PHEVs are powered by an internal combustion engine that can run on conventional or alternative fuel and an electric motor that uses energy stored in a battery. The vehicle can be plugged into an electric power source to charge the battery. Some types of PHEVs are also called extended range electric vehicles (EREVs).

ALL-ELECTRIC VEHICLES

EVs use a battery to store the electric energy that powers the motor. EV batteries are charged by plugging the vehicle into an electric outlet. EVs are sometimes referred to as battery electric vehicles (BEVs).

CHARGING:

- Level 1 provides charging through a standard 110/120V outlet and provides 2-5 miles of range per 1 hour of charging.
- Level 2 provides charging through a 220/240V outlet similar to one used for clothes dryers and provides 10-20 miles of range per 1 hour of charging.
- Level 3 (DC fast charging) requires a 3 phase input and EV must be equipped with DC fast charge capability. Provides 50-70 miles of range per 20 minutes of charging.

FUEL ECONOMY

PHEVs and EVs can reduce fuel costs dramatically because of the low cost of electricity relative to conventional fuel. Because they rely in whole or part on electric power, their fuel economy is measured differently than in conventional vehicles. Miles per gallon of gasoline equivalent (mpge) and kilowatt-hours (kWh) per 100 miles are common metrics. Depending on how they're driven, today's light-duty EVs (or PHEVs in electric mode) can exceed 100 mpge and can drive 100 miles consuming only 25-40 kWh. Assuming an average rate of 11 cents/kWh this equals $4.40 for every 100 miles driven.

RANGE:

Most Americans drive around 35 miles a day. According to the manufacturers, EVs such as the Nissan Leaf and BMW i3 can have an average range of greater than 80 miles.

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EMISSIONS

Plug-in electric vehicles can have significant emissions benefits over conventional vehicles. All electric vehicles produce zero tailpipe emissions, and PHEVs produce no tailpipe emissions when in all-electric mode.

COSTS

Although fuel costs for electric vehicles are generally lower than for similar conventional vehicles, purchase prices can be significantly higher. However, prices are likely to decrease as production volumes increase and initial costs can be offset by fuel cost savings and a federal tax credit.

TAX CREDITS AND INCENTIVES

- Plug-in hybrids and all-electric vehicles qualify for a $2,500 to $7,500 federal tax credit.
- There is also a 30% tax credit that applies to the installation of Electric Vehicle Charging Equipment.
- A 10% tax credit up to $2,500 is also available for electric motorcycles.

PLUG-IN AND CHARGE FOR FREE

PNM, Nissan USA and local businesses teamed up to offer **FREE DC fast charging stations in five locations.**

- The chargers are compatible with all-electric vehicles such as the BMW i3, Chevrolet Spark EV, Kia Soul EV, Mitsubishi i-MiEV, Nissan Leaf and Volkswagon E-Golf that are equipped with DC (direct current) fast charge capability.
- To activate the charger, download the Greenlots.com app, pre-register with Greenlots.com to receive an RFID card or call 855-900-Plug (7584) when you are ready to charge.

plug in here

Santa Fe

❑ San Isidro Shopping Plaza, 3462 Zafarano Drive

Albuquerque

❑ Winrock Mall, 2100 Louisiana Blvd. NE, near Dave and Buster's
❑ Firehouse Subs, Montgomery Plaza, 4411 San Mateo Bld. NE
❑ Freddy's Frozen Custard & Steakburgers, Corrales Center, 10701 Corrales Rd. NW
❑ O'Neill's Pub, 4310 Central Avenue SE.

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