

PNM Transportation Electrification Program

ALARIC J. BABEJ

ALARIC.BABEJ@PNM.COM



Talk to us.















SEPTEMBER 30, 2022

ELECTRIC VEHICLES (EV)

TYPES AND DEFINITIONS

Type	Definition
ICE	Internal Combustion Engine
Hybrid	ICE that charges electric system
PHEV	Plug-In Hybrid Electric Vehicle
BEV	Battery Electric Vehicle

	CONVENTIONAL	HYBRID	PLUG-IN HYBRID	ALL -ELECTRIC
Sources of Energy				
Consumption				
Emissions				
Examples		Toyota Prius (C, V) Ford C-Max, Fusion Hybrid Hyundai Sonata Hybrid Volkswagen Jetta Hybrid Lexus RX 450h Infinity Q70 Hybrid	Ford C-Max, Fusion Energi Honda Accord PHV Chevy Volt Toyota Prius PHV Cadillac ELR Porsche Panamera S E-Hybrid	Nissan Leaf Tesla Model S BMW i3 Mitsubishi iMIEV Chevrolet Spark EV

CHARGING INFRASTRUCTURE

TYPES AND DEFINITIONS

KNOW YOUR EV CHARGING STATIONS

AC Level One

**VOLTAGE**

120v 1-Phase AC

AMPS

12–16 Amps

CHARGING LOADS

1.4 to 1.9 kW

CHARGE TIME FOR VEHICLE

3–5 Miles of Range Per Hour

AC Level Two

**VOLTAGE**

208V or 240V 1-Phase AC

AMPS

12–80 Amps (Typ. 32 Amps)

CHARGING LOADS

2.5 to 19.2 kW (Typ. 7 kW)

CHARGE TIME FOR VEHICLE

10–20 Miles of Range Per Hour

DC Fast Charge

**VOLTAGE**

208V or 480V 3-Phase AC

AMPS

<125 Amps (Typ. 60 Amps)

CHARGING LOADS

<90 kW (Typ. 50 kW)

CHARGE TIME FOR VEHICLE

80% Charge in 20–30 Minutes

N. America

Japan

All Markets
except EU

AC



J1772 (Type 1)



J1772 (Type 1)

DC



CCS1



CHAdeMO

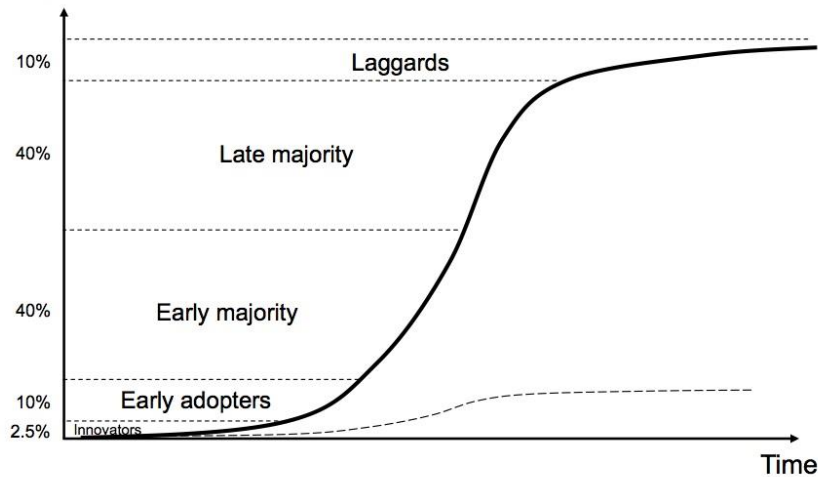


Tesla

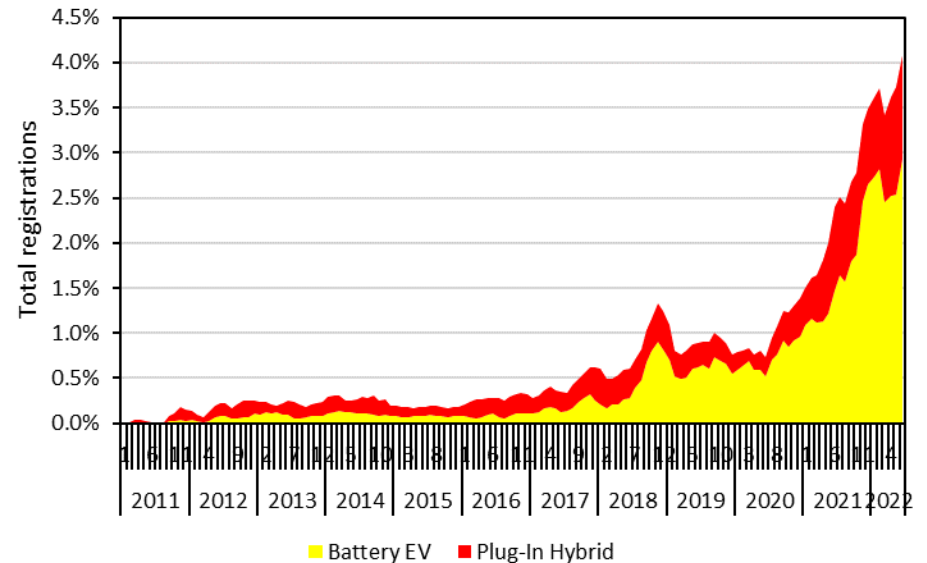
EV ADOPTION

MARKET SHARE FOLLOWS S-CURVE

Penetration of Target Market



Monthly market share - New Mexico



TRANSPORTATION ELECTRIFICATION PROGRAM (TEP)

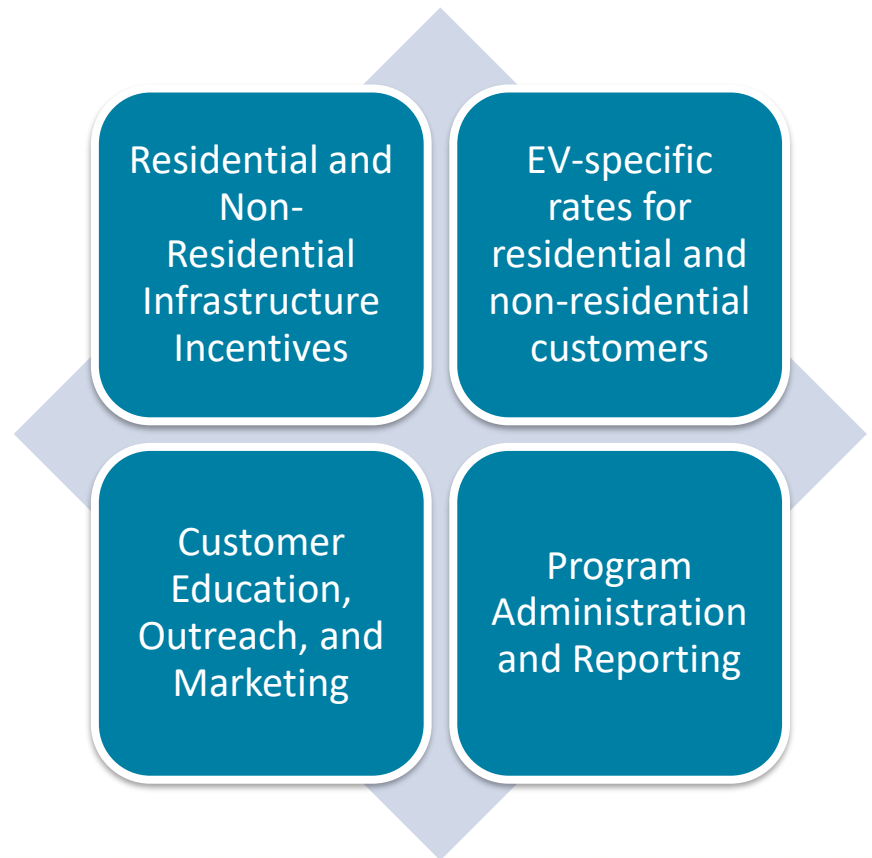
INAUGURAL PROGRAM THROUGH HB521

Designed to increase adoption of EVs

- HB521 enables ongoing TEP programs
- Designed to serve 7800 EVs by end of 2023

Budget:

- Target budget of approx. \$9M, total allowable budget of approx. \$11M
- Over 25% for low- to moderate-income customers



GET INVOLVED

ROAD WARRIORS



Learn More:

- www.pnm.com/ev
- Join the PNM EV Community
- Ask us questions at ev@pnm.com

[This Photo](#) by Unknown Author is licensed under [CC BY-SA-NC](#)



Talk to us.

