

## LUMA's Role

It is important to note that LUMA's role is not to purchase, own and/or operate charging infrastructure in the near-term. This is the responsibility of the service providers who specialize in Electric Vehicle Supply Equipment installation and operation, and of the Puerto Rico government agencies who have access to funding for deploying it.

LUMA's role is to support and facilitate these market actors in ongoing infrastructure deployment projects while working to improve grid resiliency and reliability and repair critical grid infrastructure needed to support the growth of EV adoption.

Additionally, LUMA works collaboratively with local stakeholders and entities to help facilitate the interconnection of EV infrastructure by streamlining processes and serving as a trusted advisor to help Puerto Rico reach our shared goal - a more reliable, more resilient, and cleaner energy future.

To learn more about our clean energy progress, visit [www.progresodelumapr.com](http://www.progresodelumapr.com)



Scan this code with your mobile phone to participate in the Electric Vehicle survey.



### Contact Us

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[www.lumapr.com](http://www.lumapr.com)



# ELECTRIC VEHICLES

*Driving the acceleration of clean energy in Puerto Rico.*



## What is an Electric Vehicle?




Electric vehicles, often referred to as EVs, are automobiles powered by electricity instead of gasoline or diesel. They use electric motors to generate power, which comes from rechargeable batteries. These batteries are charged by plugging the vehicle into an electrical outlet or a charging station. There are two main types of EVs:

**Battery Electric Vehicles (BEVs):** are powered solely by electric energy stored in the battery. They don't have an internal combustion engine and produce zero tailpipe emissions.

**Plug-in Hybrid Electric Vehicle (PHEV);** are powered by a combination of battery power and a gasoline engine that is typically used as a backup.

## Charging Types

Electric vehicle chargers come in three types of levels: Level 1, Level 2, and Direct Current (DC) Fast Charging. Level 1 and Level 2 chargers are most common in homes, public places like shopping malls and workplaces. On the other hand, fast charging chargers are usually located along roads and highways and are more suitable for long trips.

	 Level 1	 Level 2	 DC Fast Charge
Voltage	120 V AC	208 – 240 V AC	208 – 480 V AC
Range	2 – 5 miles per hour	10 – 20 miles per hour	180 – 240 miles per hour
Charging Time from Empty	40 - 50 hours	4 – 10 hours	20 minutes – 1 hour
Location	Home	Home, Workplace, and Public	Public

Source: <https://www.transportation.gov/rural/ev/toolkit/ev-basics/charging-speeds>

While LUMA does not build, operate, or maintain EV Charging stations, we will continue to improve the electrical grid to support the expansion of charging networks.

## Benefits of Electric Vehicles

**Save Money:** EVs are more energy efficient and have a lower operating cost than traditional vehicles. Additionally, electric vehicles do not require oil changes, resulting in reduced maintenance costs.

**No More Gas Stations:** Charge your car at home overnight or at work if your employer offers workplace charging.

**Performance:** Electric motors provide instant torque, resulting in quick acceleration and responsive performance.

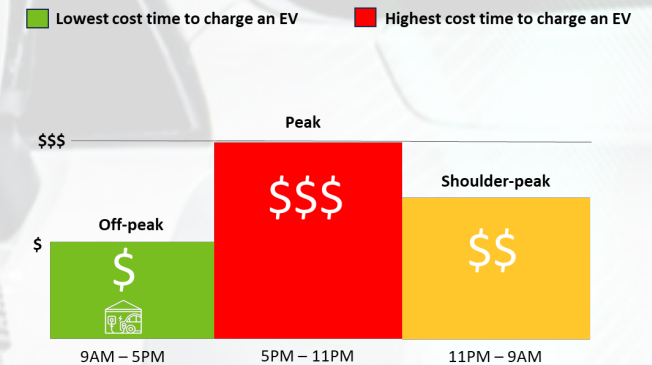
**Benefits to the Environment:** EVs produce zero tailpipe emissions, reducing air pollution and greenhouse gas emissions that contribute to climate change.

**Quiet and Smooth Operation:** EVs are quieter and offer smoother acceleration compared to traditional vehicles contributing to reducing noise pollution in urban areas.

**Incentives:** Customers may also receive incentives for owning an EV. Currently, the Puerto Rico Department of Treasury grants a refund on some taxes paid on electric or hybrid vehicles. Learn more at: <https://hacienda.pr.gov/publicaciones/determinacion-administrativa-num-11-08>

## Time of Use Rate (TOU)

LUMA is working to soon offer a Time of Use (TOU) residential rate, where energy charges vary based on the time of the day. By using this special rate, you may be able to save money by paying a less expensive rate for charging your vehicle.



If you own an electric vehicle and have an interest to enroll in this special tariff once launched, feel free to contact us at: [EV@lumapr.com](mailto:EV@lumapr.com) with your name and vehicle model and we will contact you once the program is ready for enrollment.

## Where Can I Charge on the Road?

In Puerto Rico there are charging stations around the Island where you can charge your vehicle. To locate the stations, you can use the [PlugShare.com](https://www.plugshare.com) app. This is a free online tool that will help you plan your trip and locate available charging stations in Puerto Rico.

