



TEXAS EV

March 29, 2025
EV Charging Station Workshop









What can you power with an electric vehicle?



Nissan Leaf
Starting Price \$29,280
Minimum range: 149 miles



Hyundai Kona Electric
Starting Price \$34,325
Minimum range: 200 miles



Chevrolet Equinox EV
Starting Price \$34,995
Minimum range: 207 miles



Used EV Options



\$3,500 ~~\$4,500~~

2013 Nissan leaf SL Hatchback 4D

San Antonio, TX

101K miles



\$6,500 ~~\$9,000~~

2012 Nissan leaf SL

San Antonio, TX

48K miles



\$3,999

2013 Nissan leaf

San Antonio, TX

81K miles · Dealership

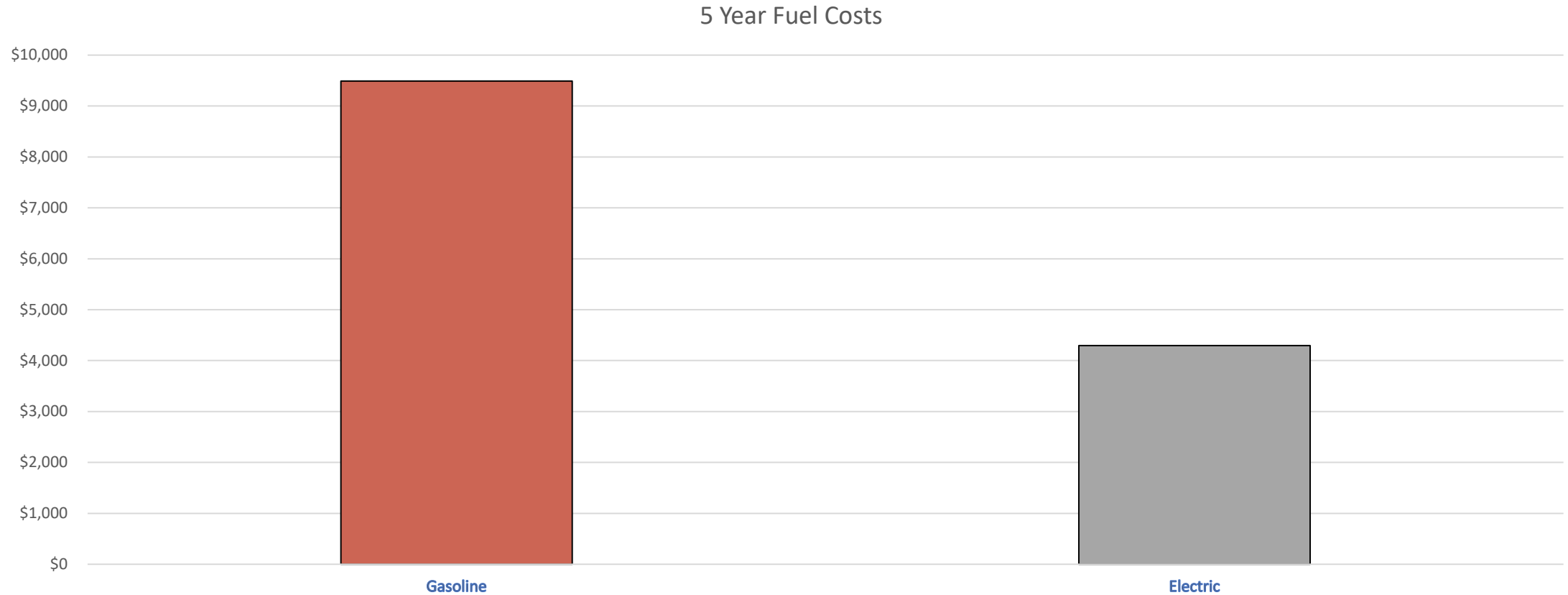
Electric Vehicle Sales are Growing

- 361,422 electric vehicles registered in TX today. (TXDOT data)
- Auto Manufacturer All Electric Goals
 - GMC all electric by 2035
 - Acura and Honda to stop making gas cars by 2040
 - Buick, Cadillac, Lexus, Land Rover, Mercedes, and Volvo by 2030
 - Ford and BMW 50% of all models by 2030
 - Chevrolet and GM by 2035

Pros and Cons

- Charging takes longer than gassing up a car.
- Charging at home saves time by not having to stop at gas stations.
- Battery replacement is expensive.
- Battery technology is improving every year. (range, lifespan, price)
- Cost savings can be achieved by charging at home. Savings diminish when you use a public charging station.
- EV maintenance costs are lower.

Fuel Costs Over 5 Years



*15,000 miles driven per year = \$5,195 savings in 5 years.

Levels of EV Charging



Level 1

VOLTAGE

120V 1-Phase AC

AMPS

12-16 Amps

CHARGING LOADS

1.4 to 1.9 KW

CHARGING TIME

3-5 Miles of Range Per Hour

PRICE PER MILE

2¢-6¢ per mile



Level 2

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)

CHARGING TIME

10-20 Miles of Range Per Hour

PRICE PER MILE

2¢-6¢ per mile



Level 3 (DC Fast Charge)

VOLTAGE

208V or 480V 3-Phase AC

AMPS

<125 Amps (Typ. 60 Amps)

CHARGING LOADS

<90 KW (Typ. 50 KW)

CHARGING TIME

80% Charge in 20-30 Minutes

PRICE PER MILE

12¢-25¢ per mile

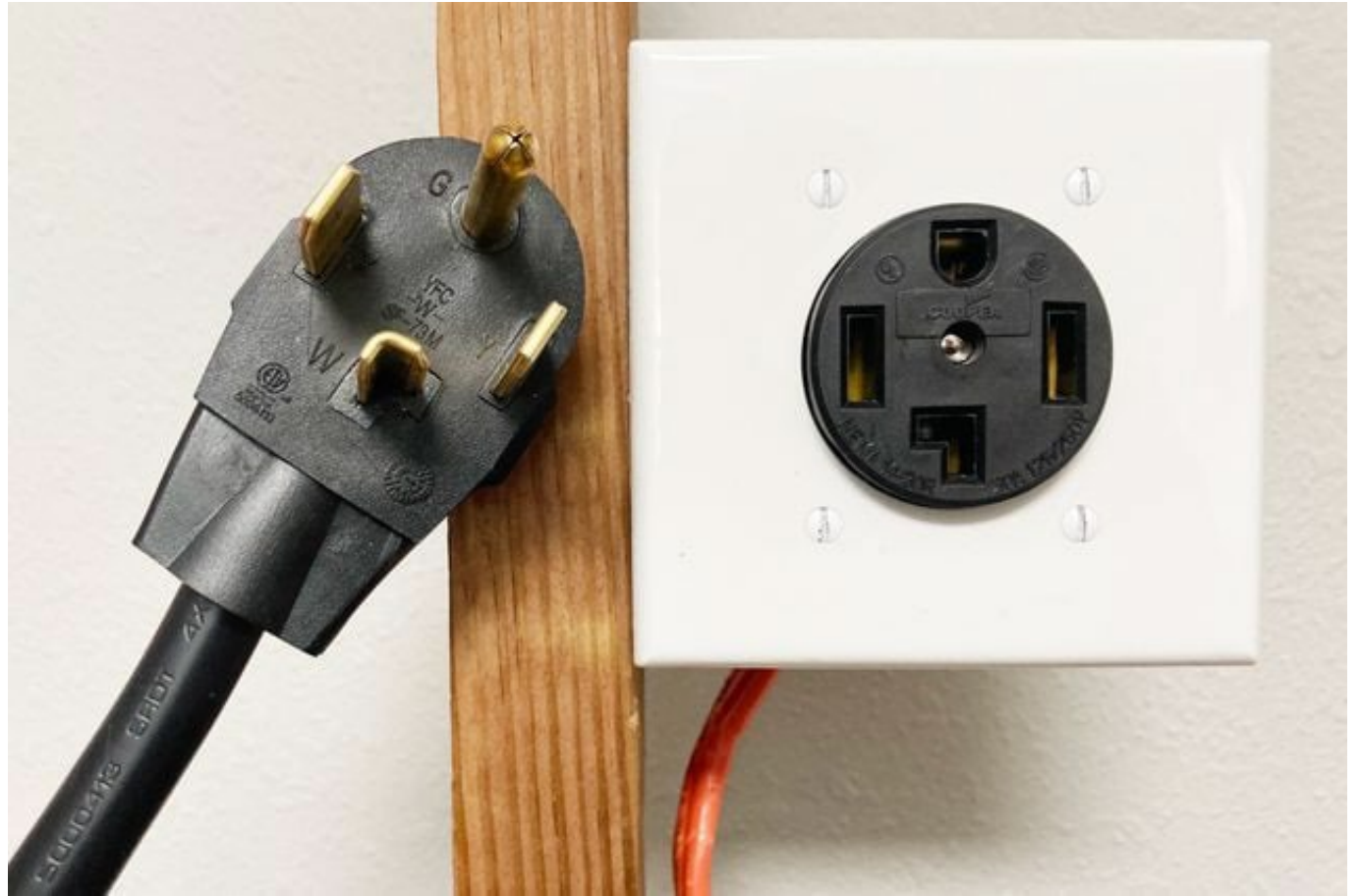
Level 1 charger

Adds 3 – 5 miles of range per hour



Level 2 charger

- Adds 10 - 20 miles of range per hour
- Outlet required in all new homes in San Antonio



Level 3 charger

Adds 150 - 300 miles of range per hour





Home charging incentives

- Allow CPS Energy to adjust your charging during 4 pm and 10 pm
- One-time \$250 bill credit
- \$5 off every monthly bill as long as you stay enrolled
- OR
- Don't charge your vehicle between 4 pm and 10 pm
- Allowed 2 cheat days per month
- One-time \$125 bill credit
- \$10 off every monthly bill as long as you stay enrolled