

EVs Help Meet Anchorage's GHG goals

- + ICE = 9,300 lbs CO₂/year (from tailpipe)
- + BEV = 2,600 lbs CO₂/year (from power plant)
- Reduction of 6,700 lbs CO2/vehicle/year (3 metric tons)72% CO2 reduction!

Assumptions:

When charged by Chugach generation mix EPA Average efficiency vehicles of 21.9 mpg and 2.9 mi/kWh Driving 10,000 miles per year

ICE: Internal Combustion Engine BEV: Battery Electric Vehicle







Fuel Cost

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+Internal combustion engine vehicle
21.9 MPG
$2.65/gallon
12.1¢/mile
10,000 miles per year = $1,210
+Electric vehicle
2.9 miles/Kilowatt-Hour (kWh)
20.4¢/kWh
7.0¢/mile
10,000 miles per year = $704
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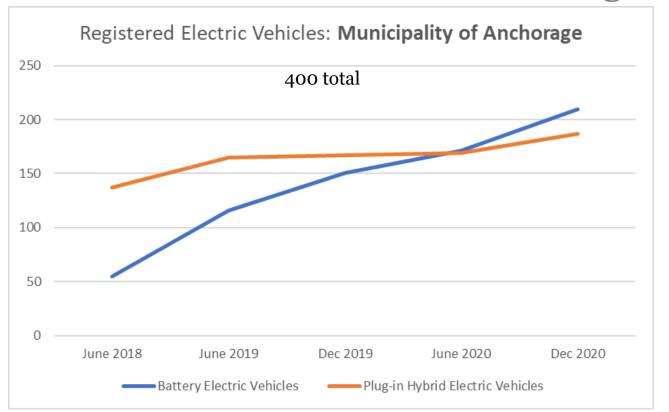


Hyundai Ioniq 5 (expected 2021)

42% Cost Reduction

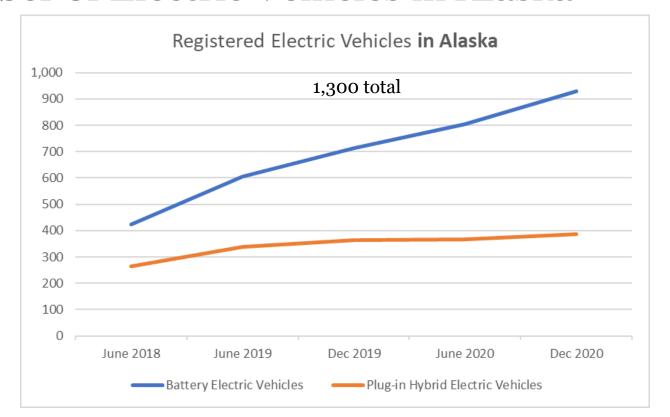


Number of Electric Vehicles in Anchorage





Number of Electric Vehicles in Alaska



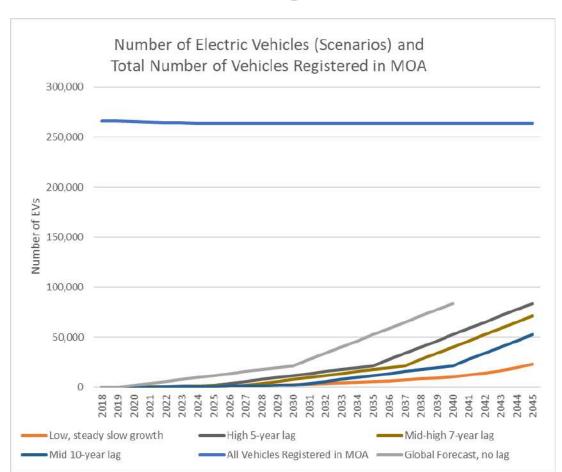


Future Electric Vehicles in Anchorage

- +Electric vehicles currently represent 0.15% of all passenger vehicles and pickups in Anchorage
- + Using Bloomberg projections of EV sales with 10-year lag for Alaska:

50,000 EVs in MOA in 2045

<u>x 3 metric</u> tons saved per vehicle 150,000 metric tons CO2 per year



Chugach Electric EV Programs

- **+**EV Residential
- **+**EV Commercial Charging
- **+**EV Workplace Charging (for employees)
- **+**EV Hotel Charging
- **+**EV Fleet Charging
- **+**EV Rental Test Drives
- **+**EV Lease (for transportation network drivers)
- **+**EV Charging Research (fully subscribed)



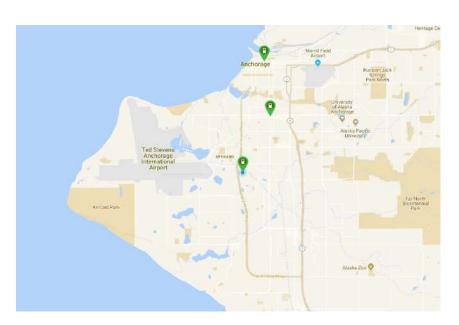
www.chugachelectric.com



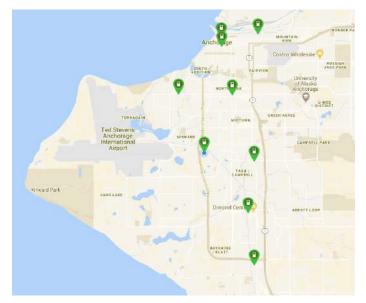
WE'RE GROWING

Public Charging Stations (PlugShare.com)

+November 2018



+February 2021





Resources

- +Chugach Electric EV web page: chugachelectric.com/energy-solutions/electric-vehicles
- +List of EVs on the market: forthmobility.org/showcase/ev-models
- +List of EVs coming soon: caranddriver.com/news/g29994375/future-electric-cars-trucks
- +Charging Station Map: www.plugshare.com



Volkswagen ID.4 (expected 2021)

Call To Action

- If you have not driven an EV yet, find one to drive.
 - Rent one when traveling
 - Rent locally through Chugach's test drive program (when rentals become available)
 - Test drive a vehicle (locally or while traveling)
- If your workplace has a vehicle or fleet, consider adding an EV
- EV owners: Apply for a \$200 credit from Chugach for home EV charging (includes PHEVs)



Tesla rental in California



