Commission Vehicles

Planning for the future.
The Commission currently has 5 late model gasoline engine vehicles:

- Dodge Dakota Pickup
- Ford Ranger Pickup
- Toyota Prius
- Jeep Wrangler (2 door)
- Jeep Wrangler (4 door)

The Commission is not part of the State Vehicle Fleet.
What the vehicles are used for:

• Field Work – Science & Regulatory Programs
• Facility Maintenance
• In-Person Meetings
• Mail pickup/supply pickup
• Outreach
FY23 Recommendations

- Sell Toyota Prius
- Purchase 2 new field vehicles (SUVs or Pickups) for use by Science and Regulatory Programs staff
Electric Vehicle (EV) or HYBRID

Points to consider:

• Installation of Charging Station at the Commission.
• How are all Electric Vehicles going to be charging?
• Location of Charging Stations while in the Field.
• What level Charging Station is needed or available?
• How long will it take to charge when in the field?
• What if staff need to take an Electric Vehicle home?
• What’s available on State Contract?
• Vehicle ground clearance for Field Use.
• What if State Contract doesn’t meet the Commission’s needs?
### Installation of Charging Station at the Commission.

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<th><strong>Pros:</strong></th>
<th><strong>Cons:</strong></th>
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<td>- Great for the Environment.</td>
<td>- Daily responsibility for charging Commission vehicles</td>
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<td>- Grants are available to offset a small portion of the cost.</td>
<td>- Consequences if vehicles aren’t fully charged</td>
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<td>- Included in the Commission’s FY22 Budget.</td>
<td>- Monitoring and establishing priorities for use of Charging Station (Commission or public vehicles)</td>
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<td>- Provides service to the visiting public.</td>
<td>- Payment structure/mechanism</td>
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Charging Levels:

**Level 1**: These charging stations provide charging through 120 volt (V) AC dedicated circuit breakers. Based on battery type and vehicle, Level 1 charging adds about 2 to 5 miles of range to a plug-in electric vehicle (PEV) per hour.

**Level 2**: These charging stations provide charging through 240V or 208V AC dedicated circuits of 20 to 100 amps, depending on the charging station requirements. Based on the battery type, charger configuration, and circuit capacity, Level 2 charging adds about 10 to 20 miles of range to a PEV per hour of charging time.

**DC Fast Charging**: These charging stations provide charging through a 480V or 208V AC dedicated circuit. DCFC enable rapid charging and is often located along heavy traffic corridors and at public charging locations. Based on battery type and vehicle, DCFC can add about 60-80 miles of range to a PEV in 20 minutes of charging time.
Can staff take an Electric Vehicle home?

Staff often need to take Commission vehicles home in the evening in order to go directly to site inspections or field work the next morning.

- The Commission cannot pay to install a charging station at an employee’s residence.
- The Commission cannot assume the liability of any possible electrical issues stemming from use of a charging outlet at an employee’s residence.
What’s available on State Contract and it’s ground clearance for Field use.

**Electric Vehicles:**
- 2022 Nissan Leaf
  Ground Clearance: 5 inches
- 2022 Chevrolet Bolt
  Ground Clearance: 5 inches
- 2021 Ford Mustang Mach E
  Ground Clearance: 5 inches

**HYBRIDS:**
- 2022 Ford Escape SE Hybrid
  Ground Clearance: 7.3 inches
- 2021 Toyota Highlander Hybrid
  Ground Clearance: 8 inches
What if State Contract doesn’t meet the Commission’s needs?

- Survey the Staff
- Create an RFQ (Request for Quote) that includes the specific needs of a future Commission Vehicle.

2022 Jeep Sahara 4xe
Ground Clearance: 9.7 inches