



## Juneau Commission on Sustainability

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### CBJ Electric Vehicle Parking and Charging Scenarios

#### Do Nothing-

#### Do Something-

#### Do More-

#### Do A Lot-

**Purpose.** The Juneau Commission on Sustainability (JCOS) will host and conduct two (2) Sustainability Sessions to present information and listen to the public on June 19<sup>th</sup> and July 17<sup>th</sup> to gain public input for a CBJ Assembly recommendation.

**Background.** JCOS was tasked by the CBJ Public Works Committee to review options and offer a recommendation. Juneau is a leading Electric Vehicle City in North America with roughly 300 Electric Vehicles in 2018 with one or two new EV's each week. Four years ago, Juneau had a half dozen EV's. Local new and used car dealers are ordering and stocking electric vehicles while service and support operations have increased in Juneau.

Juneau boasts five CBJ public Level 2 chargers (240 volt) at several locations and one high voltage (480 volt) Level 3 (located at the Downtown Transit Center). Juneau also has four private and three State of Alaska, open to the public chargers, for a total of 14 EV charging stations in Juneau. More private charging stations are coming. A recent National Renewable Energy Laboratory study concluded that EV communities (like Juneau) should have a Level 2 charger every 3 miles and roughly one Level 3 charger for every 200 Electric Vehicles.

#### Potential Scenarios leading to a Recommendation to the CBJ Assembly.

**Scenario 1- Do Nothing. No Ordinance.** Recommend that No ordinance is necessary, needed or required at this time. Perhaps, there are not enough CBJ owned chargers to economically justify a permit program as many Juneau chargers are non-CBJ/private but are free and open to the public. There might not be enough electric vehicles in Juneau to require a CBJ ordinance/program. Revisit the issue in the future.

**Scenario 2- Do Something. Adopt Current Draft Ordinance.** Recommend that the draft Ordinance be adopted. The Ordinance covers CBJ costs with a \$50 EV permit annually. Would only cover CBJ charging locations even if private money paid for chargers and installs. May or may not resolve CBJ parking and charging issues.

**Scenario 3- Do More. Craft and Adopt modified Ordinance.** Design ordinance in alignment with the Juneau Climate Action Plan, Juneau Renewable Energy and existing CBJ resolutions and from public comments to meet current parking and charging demand.

**Scenario 4- Do A lot. Craft a modified Ordinance and a Plan.** Based on public comments, prepare Juneau for the impending EV Transformation with a "Go Forward EV charging Plan" to expand additional charging locations in Juneau and to establish parking and charging protocols consistent with the public input to meet current demand and to plan for growing electric vehicle transportation in Juneau.

