

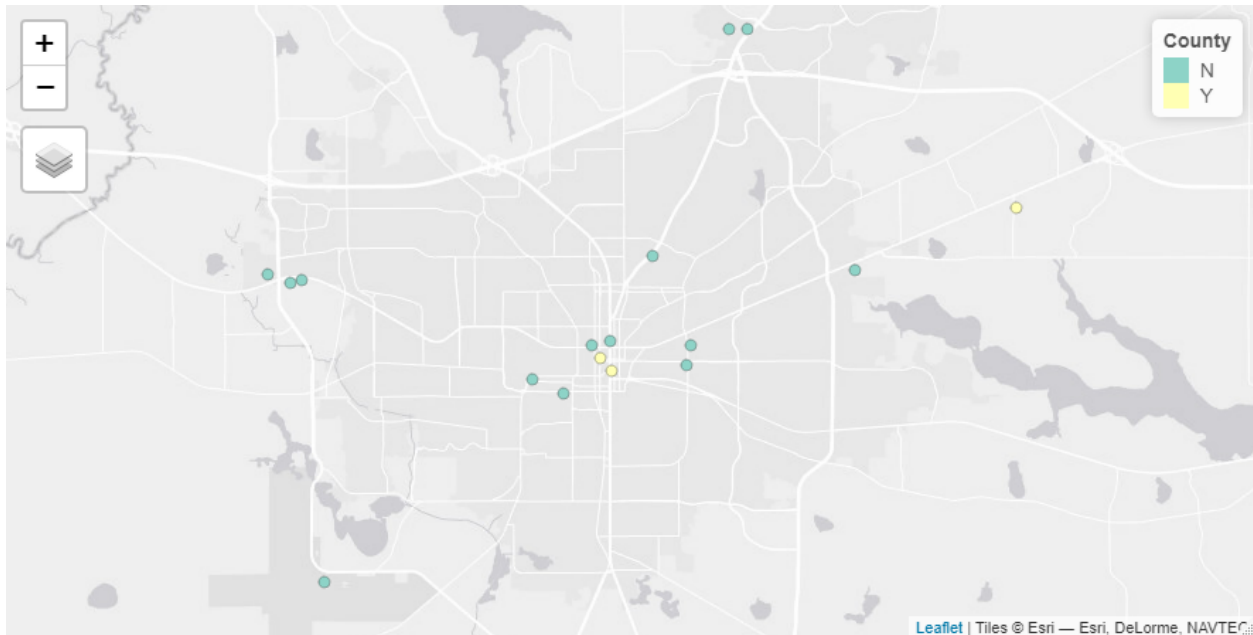
Justification to Install more EV Charging Stations on County Property

The Leon County Board of County Commissioners approved the Integrated Sustainability Action Plan on April 23, 2019, which directed the Office of Sustainability to expand the installation of electric vehicle (EV) charging stations on County property.

Background

The map below shows the current locations of the 17 existing EV charging stations in Leon County, three of which are located on County property.

Map of Existing Charging Infrastructure in Leon County



In June 2018, an EV charging station was installed at the Leon County Courthouse (for employee use), Leroy Collins Library, and the Eastside Branch Library. The following section summarizes their environmental impact, community feedback, and usage since installment.

	Leroy Collins Library	Courthouse	Eastside Branch Library
Hours used since installation	814	1206	95
Fuel Displacement (gal) since installation	715	618	86
CO ₂ Offset (lb) since installation	13,862	11,982	1,661

Testimonies from users about the EV Charging Station at the Leroy Collins Library*

- Bmxracer50: “Nice library. Short walk to nice park and some food options.”
- Mac: “Great location in downtown and is open 24/7.”

Testimonies from users about the EV Charging Station at the Eastside Branch Library*

- Thomas: “Excellent spot on east side of Tallahassee.”
- Lawmanmoon: “Reserved EV parking with one charger. Beautiful library with adjacent park and walking path.”

Site Suitability Analysis

Public EV Charging Stations

According to research from the U.S. Department of Energy, the priority locations to install EV charging stations, for public use, include areas with concentrations of retail, recreation, and public services. To determine the optimal sites for the next public EV charging station, a site suitability model was constructed. Eligible sites were defined as those with the following characteristics.

1. Located at a County-owned facility building or park.
2. The nearest amenity is less than 1 mile away.
3. The nearest EV charging station is greater than 2 miles away.

From the [model](#), there are 8 eligible sites: Celebration Parcel, Bradfordville Community Center, NE Branch Library, Okeehoopkee Prairie Park, North Florida Fairgrounds, Gene Cox Stadium, J.R. Alford Greenway and the UF/IFAS Agricultural Center.

Employee-use EV Charging Stations

After home, workplaces are the second most common location for EV charging. To determine the optimal sites for the next private EV charging station, the site suitability model was modified to consider the following characteristics.

1. Located at a County-owned facility building.
2. The facility building has/will have at least one employee with an EV. (based on [survey](#))

From the [model](#), there are 7 eligible sites: Government Annex Complex, Courthouse, Renaissance Center, Leroy Collins Library, UF/IFAS Agricultural Center, Public Safety Complex and ORS.

Ranked Options

Public-Use

1. Bradfordville Community Center
2. UF/IFAS Agricultural Center
3. NE Branch Library
4. Okeehoopkee Prairie Park
5. Celebration Parcel (future park)

Employee-Use

1. Renaissance Center
2. Public Safety Complex
3. Leroy Collins Library
4. Courthouse
5. UF/IFAS Agricultural Center
6. ORS
7. Government Annex Complex

Recommendations

For public-use: The Bradfordville Community Center should be the next site to have an EV charging station because of its proximity to the multitude of commercial establishments along Bannerman and Thomasville Road.

For employee-use: The Renaissance Center should be the next site to have an EV charging station because there are employees that are currently unable to charge their EVs on site.