

FALL 2019 REPORT CARD ON EV READINESS IN FLORIDA BY COUNTY

How is Your Florida County or City Doing?



This 2019 EV CHARGING STATION Report Card shows how well cities and counties in Florida are doing in providing charging infrastructure to support the transition to electric vehicles (EVs). Research shows the lack of efficient charging stations can be a barrier to EV purchase. According to the EPA, the transportation sector of our economy is now the largest source of carbon dioxide pollution in the United States. That is why the League of Women Voters of Florida adopted the electrification of transportation as part of their State Program for Action. League members will be using this report card to educate fellow citizens and public officials about the public health benefits of electrifying transportation and the urgent need for charging infrastructure, thus promoting cleaner air and water, and a more promising future for our state which is on the frontlines of climate change as a low lying peninsula in the Atlantic Ocean.

How Do Electric Vehicle Charging Stations Help Counties And Cities?

EVs help reduce local air pollution, particulate matter, and greenhouse gas emissions from the transportation sector, all of which directly contributes to respiratory illnesses and other public health impacts. EV charging infrastructure also:

- Provides a competitive advantage by encouraging cleaner vehicles and saving consumers thousands of dollars in gas and maintenance.
- Provides access for city fleet vehicles as cities transition to low maintenance EVs.
- Drives economic development and job creation in cities.
- Cities who own their utilities can sell more kWh for charging EVs. They can also provide incentives for customers to charge at night when their usage is much lower.

County And City Rankings For EV Charging Locations

COUNTY RANKINGS

*This report card ranks and grades all Florida counties with listed charging locations in the DOE database. Rankings are based on number of listed locations per 10,000 residents. Grades are assigned to counties only, and are based on percentile placement as discussed below. ***This report also ranks the top cities with 10 or more listed charging locations.*

RANK	COUNTIES*	CHARGING LOCATIONS PER 10,000	GRADE***
1	Monroe	4.06	A
2	Franklin	2.50	A
3	Walton	1.48	A
4	Nassau	1.45	A
5	Orange	1.33	A
6	Okeechobee	1.22	A
7	Pinellas	1.01	A
8	Sarasota	1.01	A
9	Saint Johns	0.88	B
10	MiamiDade	0.85	B
11	Collier	0.84	B

RANK	TOP CITIES WITH 10 OR MORE CHARGING LOCATIONS**	CHARGING LOCATIONS PER 10,000
1	Naples	13.8
2	St. Augustine	10.7
3	Sarasota	7.0
4	Winter Park	6.3
5	Key West	6.1
6	Orlando	5.1
7	Aventura	4.0
8	Panama City	3.2
9	Miami	3.2
10	Coral Gables	3.2
11	West Palm Beach	3.1

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RANK	COUNTIES*	CHARGING LOCATIONS PER 10,000	GRADE***
12	Duval	0.81	B
13	Brevard	0.77	B
14	Palm Beach	0.75	B
15	Santa Rosa	0.74	C
16	Columbia	0.72	C
17	Osceola	0.71	C
18	Okaloosa	0.71	C
19	Alachua	0.68	C
20	Highlands	0.68	C
21	Bay	0.66	D
22	Volusia	0.64	D
23	Hillsborough	0.62	D
24	Broward	0.62	D
25	Seminole	0.58	D
26	Manatee	0.58	D
27	Martin	0.58	D
28	Leon	0.51	F
29	Citrus	0.48	F
30	Flagler	0.47	F
31	Indian River	0.46	F
32	Taylor	0.45	F
33	Putnam	0.41	F
34	Washington	0.40	F
35	Jackson	0.40	F
36	Hardee	0.37	F
37	Saint Lucie	0.36	F
38	Bradford	0.36	F
39	Charlotte	0.34	F
40	Sumter	0.32	F
41	De Soto	0.28	F
42	Marion	0.25	F
43	Polk	0.25	F
44	Lake	0.23	F
45	Pasco	0.23	F
46	Suwannee	0.22	F
47	Escambia	0.16	F
48	Clay	0.09	F

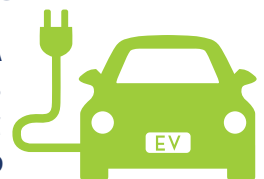
RANK	TOP CITIES WITH 10 OR MORE CHARGING LOCATIONS**	CHARGING LOCATIONS PER 10,000
12	Miami Beach	2.9
13	Bradenton	2.7
14	Kissimmee	2.5
15	Fort Lauderdale	2.4
16	Fort Myers	2.2
17	Daytona Beach	2.1
18	Boca Raton	2.0
19	Doral	1.9
20	Melbourne	1.8
21	Tampa	1.8
22	Delray Beach	1.8
23	Clearwater	1.5
24	Gainesville	1.4
25	Largo	1.2
26	Hollywood	1.0
27	Jacksonville	0.8
28	Tallahassee	0.8
29	St. Petersburg	0.6

*19 Unlisted counties had no listed charging location

** Cities with 10 or more charging locations

***Grades based on percentiles below:

PERCENTILES	CHARGING LOCATIONS	GRADE
90th	1.01	A
80th	0.75	B
70th	0.67	C
60th	0.55	D
50th	0.40	F



Sources: The Office of Economic and Demographic Research 2018 Estimates; U.S. Department of Energy's Alternative Fuels Data Center Station Locator (<https://afdc.energy.gov/stations/#/find/nearest>) {Accessed 7/12/2019}

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What's in it for Me?



1. Saves Me Money

- EV buyers save \$10,000 over 10 years versus a gas powered vehicle even at current purchase prices.
- Maintenance costs are lower with an EV because there are fewer parts.
- Most EVs qualify for up to a \$7,500 Federal Tax Credit.

2. Saves Me Time

- Driving electric means you never have to go to a gas station (you can fuel up at home!) or need an oil change.
- Powering them is convenient. You can use any traditional 120V plug to charge most EVs or install 240V charging equipment to make charging quicker.
- You can also charge your EV at public charging stations that are found on apps like PlugShare.

3. Improves My Ride

- High performance: Electric vehicles have instant acceleration (torque), allowing them to reach incredible speeds in seconds.
- The quickest production car in the world is electric. The Tesla SP100D has a 0-to-60 mph time of 2.28 seconds.
- Electric vehicles must meet the Federal Motor Vehicle Safety Standards and undergo the same rigorous safety testing as conventional vehicles sold in the United States.
- No noise: With no internal combustion engine, electric vehicles are significantly quieter than gas- or diesel-powered vehicles.

4. Protects My Family's Health

- No pollution: According to the EPA, EVs have no tailpipe and produce no pollution at the vehicle level. Additionally, they don't take gasoline or require oil changes, so oil is never leaking from the cars, and they reduce the need for offshore oil drilling and the oil spills that result.

- According to the EPA, the transportation sector is now the largest source of carbon dioxide pollution the U.S.
- The lifetime emissions of EVs are less than 50% of a traditional car, even when emissions from manufacturing are considered.
- When EVs are powered by renewable sources their emissions are near zero.

5. Protects Our Coasts

- Electric cars reduce our nation's dependence on foreign oil.
- No oil or gas means no oil spills on our coasts.
- 20-45 million electric vehicles could offset any gasoline extracted from the currently protected areas of the Atlantic, Pacific, and Eastern Gulf of Mexico combined!

6. Other Great Points:

- Range: A study conducted by MIT found that 87% of drivers could switch to an EV and have their daily travel needs met without adjusting their commute or driving time even if they cannot charge during the day.
- There are more than 40 models of all-electric or plug-in hybrid-electric vehicles currently, and more than 350 models are expected by 2025, including sedans, crossovers, SUVs, trucks and vans.
- Audi, BMW, Chevrolet, Fiat, Honda, Hyundai, Jaguar, KIA, Nissan, Tesla and VW all offer an all-electric model sedan or crossover.
- Audi, BMW, Cadillac, Chevrolet, Chrysler, Ford, Honda, Hyundai KIA, Mercedes-Benz, Mini, Mitsubishi, Porsche, Subaru, Toyota, Volvo and VW all offer a plug-in hybrid.

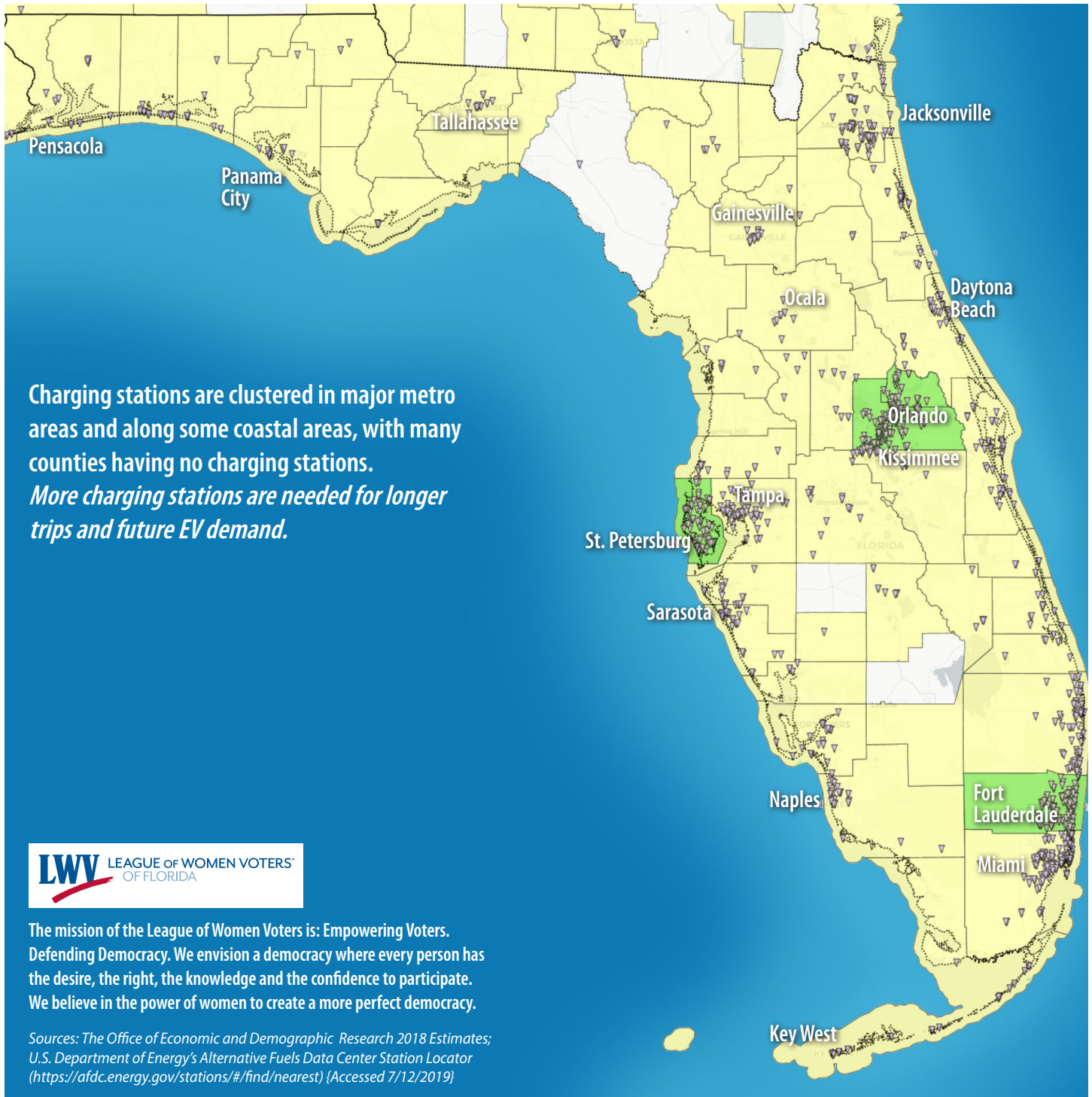


Most Electric Vehicles get
more than 100 MPGe.

Source: <https://www.electrifythesouth.org/benefits-of-driving-electric>

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EV Charger Stations In Florida



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To Learn More Or Find Out How Your Community
Can Add Stations



NORTH FLORIDA CLEAN FUELS COALITION (JACKSONVILLE)

<https://cleancities.energy.gov/coalitions/north-florida>

North Florida Transportation Planning Organization

<http://northfloridatpo.com/clean-fuels/>

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904-306-7514

CENTRAL FLORIDA CLEAN CITIES COALITION

<https://cflccc.org/>

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TAMPA BAY CLEAN CITIES COALITION

<https://cleancities.energy.gov/coalitions/tampa-bay>

USF/Center for Urban Transportation Research

Alexander Kolpakov

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813-974-4038

SOUTHEAST FLORIDA CLEAN CITIES COALITION (MIAMI REGION)

<https://cleancities.energy.gov/coalitions/southeast-florida>

South Florida Regional Planning Council

http://sfregionalcouncil.org/portfolio_category/transportation-and-alt-fuels/

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Check with your local power service provider to see if they have incentives or programs for the installation of electric vehicle charging; also check with your city and county for the same information.

For additional info on electric transportation, explore:

<https://afdc.energy.gov/fuels/electricity.html>

<https://pluginaustralia.org/>

<https://www.electrifythesouth.org/>

<http://www.driveelectricflorida.org/>

