

Electric Fleets: Saving Florida Taxpayers

\$ Updated procurement of Florida’s government fleets could save taxpayers over \$8.7 billion.

Economic analysis using mid-range gas price projections showcases potential \$5.4 billion in fuel cost savings by converting Florida’s state owned vehicles to electric. In addition to reducing pollution, taxpayers could avoid another \$3.3 billion in maintenance cost savings over the life of the vehicles.



Florida’s Government Fleet Lifetime Fuel Savings Potential

Vehicle Type	2020 Florida Government Registrations	Statewide fuel savings of EVs vs new diesel (\$)
School Bus	13,836	1,301,000,000
Transit Bus	2,841	1,168,000,000
Cargo Van	12,431	266,000,000
Straight Truck	20,308	1,652,000,000
Long Haul Trucks	465	444,000,000
Light Duty Pickup Trucks	18,934	421,000,000
Totals	68,962	5,259,000,000



Florida’s Government Fleet Lifetime Maintenance Savings Potential

Vehicle Type	2020 Florida Government Registrations	Statewide maintenance savings of EVs vs new diesel (\$)
School Bus	13,836	1,211,000,000
Transit Bus	2,841	229,000,000
Cargo Van	12,431	1,167,000,000
Straight Truck	20,308	437,000,000
Long Haul Trucks	465	85,000,000
Light Duty Pickup Trucks	18,934	199,000,000
Totals	68,962	3,328,000,000

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About the Environmental Defense Fund

For more than 50 years we’ve been pioneers, using science and different perspectives to make the environment safer and healthier for us all. Today, we are one of the world’s leading scientific organizations with more than 250,000 members and supporters in Florida alone. Fortune magazine called our board one of the most influential nonprofit boards in the US. And science still guides everything we do.

Electric Fleets: The Economics

Updated procurement of Florida's government fleets could save taxpayers over \$8.7 billion.



The benefits of all electric vehicles accrue to whomever owns and operates them. As shown in Table 2, Florida had nearly 69,000 buses and trucks registered to state agencies as of 2020. This fleet could be powered at a lifetime savings of \$5.4 billion if it were replaced with an all-electric fleet instead of a new diesel fleet, and over \$3.3 billion savings in lifetime maintenance cost. This same fleet would avoid 17 million tons of greenhouse pollution and 15,000 tons of nitrogen oxides lifetime tailpipe pollution if electrified, as shown in Table 3.

Florida's Government Fleet Lifetime Fuel Savings Potential

	A	B	C	D = B-C	E	F	G	H = B/G	I = C/G	J = A*D
Source/Scenario	EV Hub Market Data	EDF/Mid	EDF/Mid		EDF	EDF	EDF	EDF/Mid	EDF/Mid	
Vehicle Type	2020 Florida Government Registrations	Lifetime Fuel Cost (Diesel) (\$/Vehicle)	Lifetime Fuel Cost (EV) (\$/Vehicle)	Lifetime Savings (EV vs Diesel) (\$/Vehicle)	Life-time	Annual Miles	Lifetime Miles	Diesel Fuel (\$/Mile)	EV Fuel (\$/Mile)	Statewide fuel savings of EVs vs new diesel (\$)
School Bus	13,836	120,000	24,000	96,000	12	15,000	180,000	0.67	0.14	1,301,000,000
Transit Bus	2,841	525,000	105,000	420,000	10	35,000	350,000	1.50	0.33	1,168,000,000
Cargo Van	12,431	36,000	14,000	22,000	10	11,543	115,430	0.31	0.13	266,000,000
Straight Truck	20,308	133,000	48,000	85,000	10	20,000	200,000	0.67	0.26	1,652,000,000
Long Haul Trucks	465	1,397,000	408,000	989,000	10	170,000	1,700,000	0.82	0.26	444,000,000
Light Duty Pickup Trucks	18,934	35,000	13,000	22,000	7	14,000	98,000	0.51	0.18	421,000,000
Totals	68,962									5,259,000,000

Florida's Government Fleet Lifetime Maintenance Savings Potential

	A	B	C	D = B-C	E	F = B/E	G = C/E	H = A*D
Source:	EV Hub Market Data	EDF	EDF		EDF			
Vehicle Type	2020 Florida Government Registrations	Lifetime Maint. Cost (Diesel) (\$/Vehicle)	Lifetime Maint. Cost (EV) (\$/Vehicle)	Lifetime Maint Savings (EV vs Diesel) (\$/Vehicle)	Lifetime Miles	Diesel Maint. (\$/Mile)	EV Maint. (\$/Mile)	Statewide maintenance savings of EVs vs new diesel (\$)
School Bus	13,836	171,000	83,000	88,000	180,000	0.95	0.46	1,211,000,000
Transit Bus	2,841	158,000	77,000	81,000	350,000	0.45	0.22	229,000,000
Cargo Van	12,431	119,000	25,000	94,000	115,430	1.03	0.22	1,167,000,000
Straight Truck	20,308	42,000	21,000	21,000	200,000	0.21	0.11	437,000,000
Long Haul Trucks	465	357,000	174,000	183,000	1,700,000	0.21	0.10	85,000,000
Light Duty Pickup Trucks	18,934	21,000	10,000	11,000	140,000	0.21	0.10	199,000,000
Totals	68,962							3,328,000,000

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