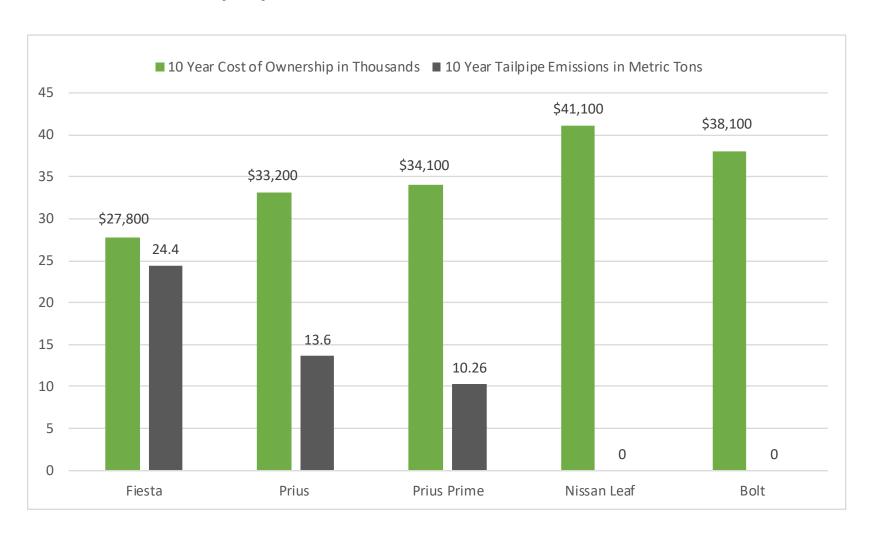
Example Option – For Discussion Impact of Replacing 10 Sedans in 2020

		2019 Ford Fiesta	2019 Toyota Prius	2019 Prius Prime	2019 Chevy Bolt	2019 Nissan Leaf
Purchase price	Purchase price	\$170,000	\$250,000	\$271,000	\$330,000	\$360,000
Maintenance/yr	Maintenance/yr	\$4,350	\$4,350	\$4,350	\$3,310	\$3,310
Fuel/yr	Fuel/yr	\$6,452	\$3,846	\$2,650	\$1,792	\$1,790
EV charging stations - per year ⁶	EV charging stations - per year ⁶			\$4,000	\$4,000	\$4,000
Total Year 1 Cost	Total Year 1 Cost	\$180,802	\$258,196	\$282,000	\$339,102	\$369,100
	Low-e premium		\$77,395	\$101,198	\$158,300	\$188,298
	Low-e premium (%)		19%	23%	51%	62%
Low-e premium	Emissions reduced (%)	38%	62%	72%	100%	100%
Cost to drive 100 miles (fuel only)		\$8.06	\$4.81	\$2.84	\$2.72	\$2.72

10 Year Cost of Ownership in Thousands 10 Year Tailpipe Emissions in Metric Tons



Background/Next Steps

- May 2018 F&A committee directed staff to research ways to reduce county fleet emissions
- October 2018 County Board approved new program request to fund idle reduction technology
- March 2019 (today) staff is sharing progress update and seeking feedback from Energy and Environment committee

Idle Reduction Technology - Update

- Software licenses for 72 vehicles have been secured by LCDOT
- Installation planned for:
 - 48 SUVs
 - 17 Light Trucks
 - 7 Vans
- All installs scheduled to be complete by fall 2019
 - Installs completed at time of scheduled routine maintenance by DOT
 - 6% fuel & emission savings projected

Sedan Class (81 vehicles in fleet) Vehicle Comparisons

Gasoline Options

Ford Fiesta

Low-e Replacement Options

- Hybrid
 - Toyota Prius
- Electric
 - Chevrolet Bolt

Note: All vehicles included on cooperative bids

Current vs Replacement Options

	Current Vehicle	Replacement Options		
	2008 Ford Taurus	2019 Ford Fiesta	2019 Toyota Prius	2019 Chevy Bolt
Purchase price ¹		\$17,000	\$25,000	\$33,000
MPG/MPGe	19	31	52	119
Miles/yr	8,000	8,000	8,000	8,000
Fuel/yr (gas gal or kWh)	421	258	154	2240
Fuel cost (per gal or kWh)	\$2.5	\$2.5	\$2.5	\$0.08
Fuel cost/yr	\$1,053	\$645	\$385	\$179
Maintenance cost ²		\$435	\$435	\$331
Tailpipe emissions/yr ³	3.7	2.3	1.4	0
Emissions reduced (%)		38%	62%	100%
Fuel savings (\$)		\$407	\$668	\$873

Example Option – For Discussion Impact of Replacing 10 Sedans in 2020

	2019 Ford Fiesta	2019 Toyota Prius	2019 Chevy Bolt
Purchase price	\$170,000	\$250,000	\$330,000
Maintenance/yr	\$4,350	\$4,350	\$3,310
Fuel/yr	\$6,452	\$3,846	\$1,792
EV charging stations - per year ⁶			\$4,000
Total Year 1 Cost	\$180,802	\$258,196	\$339,102
Low-e premium		\$77,395	\$158,300
Low-e premium (%)		19%	51%
Emissions reduced (%)	38%	62%	100%

10 Year Cost of Ownership in Thousands 10 Year Tailpipe Emissions in Metric Tons

