Benefits of Driving Electric





About Us

The Southern Alliance for Clean Energy (SACE) is a regional membership organization that promotes responsible energy choices to ensure clean, safe, and healthy communities throughout the Southeast.



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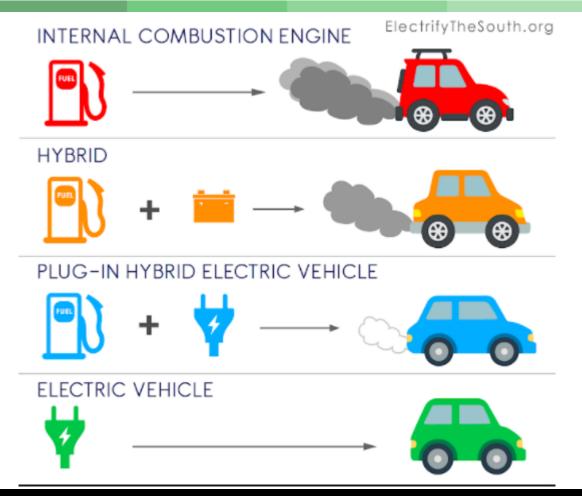
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Why Electric Vehicles?

The transportation sector is now the <u>largest source</u> of greenhouse-gas pollution in the United States.



What is an EV?



Benefits of Electric Vehicles (EVs)

- EVs save money low fuel and maintenance costs
- EVs save time
 – no more
 gas stations or oil changes
- EVs protect public health
 & the environment



Lower Fuel Costs

- It costs about 3.5 cents per mile to drive electric and 1 cent per mile if charging with rooftop solar.
- It costs about 10 cents per mile to drive a gas-powered car if your car gets 23 mpg and gas is \$2.25.

Model	Cost per mile (cents)	200 miles cost (dollars)
Gasoline	10	\$20
Electric	3.5	\$7
Solar PV	1	\$2

Assuming \$2.25 cost per gallon of gasoline and 23mpg Assuming 33.7kW/h= 1 gallon and \$.12/kWh and 115mpge



PV Economics *Provided by SUN

 With an EV and co-op PV*, the charging is on the house. Really.



/Mile



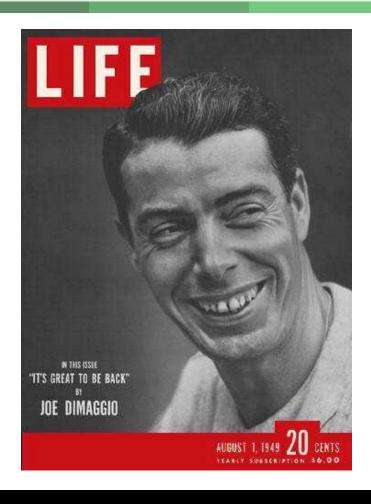
One penny per mile is equivalent to \$.27/gallon for gas.

TRIVIA: Know when the last time anyone saw gas at that price?

*Cost determined by FSEC



Answer:



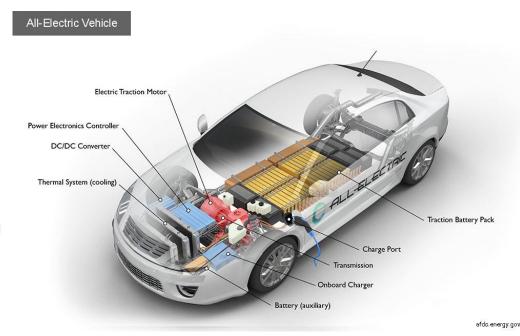
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Source: Life Magazine Office of Energy Efficiency and Renewable Energy energy.gov



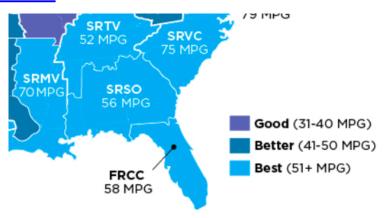
Lower Maintenance Costs

- EVs require less maintenance than traditional Internal Combustible Engine (ICE vehicles).
- Additionally, time spent on maintenance is reduced.
- 20 moving parts vs 2,000



Driving Electric Protects Public Heath

- No polluting tail pipe emissions mean cleaner air.
- Even when powered from coal generated electricity, EVs are cleaner.



US Average (EV sales-weighted): 80 MPG

Union of Concerned Scientists 2018 Report



Electric Vehicles Are the Future

BMW	12 all-electric cars and 13 hybrids will be on the market by 2025	
Daimler/Mercedes Benz	\$11 billion investment in electric range of vehicles; Mercedes-Benz – all vehicles will have an an electric model by 2022	
Ford	Ford will invest a total of \$11 billion in electrification programs and launch 40 new electrified vehicles globally by 2022; Ford will launch 16 electrified vehicles over the next five years.	
GM	At least 20 new EVs by 2023	
Hyundai/Kia/Genesis	Hyundai plans 23 kinds of electric vehicles by 2025 and is investing \$35 billion in autonomous and electric vehicles by 2025.	
Renault, Nissan, Mitsubishi	\$11.7 billion investment to bring twelve new electric vehicles by 2022	
Volkswagen	VW Group promises to spend up to \$84 billion USD in order to bring 300 electric vehicle models to market by 2030.	
Volvo	All the models it introduces starting in 2019 will be either hybrids or powered solely by batteries	



Electric Vehicles Can Replace Offshore Drilling





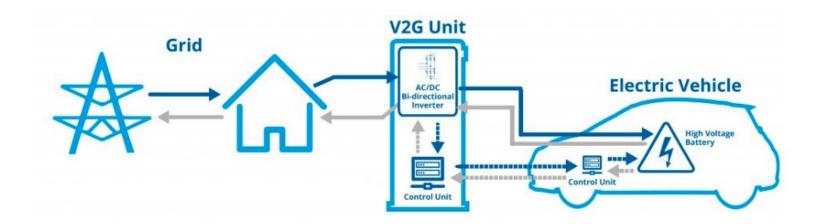
Energy Security

 Transportation accounts for nearly threefourths of total U.S. petroleum consumption



Utility and Grid Enhancement

V2Grid Technology



New Campaign: Protect Our Coast – Drive Electric

- Goal: local governments accelerate the transition to electric vehicles by adopting targeted policies
- Outcomes: reduce need for offshore oil and gas drilling, cleaner environment, better public health, and equitable access to benefits of EVs



Policy Guide or 'Toolkit'

https://www.electrifythesouth.org/coast

PROTECT OUR COAST: DRIVE ELECTRIC





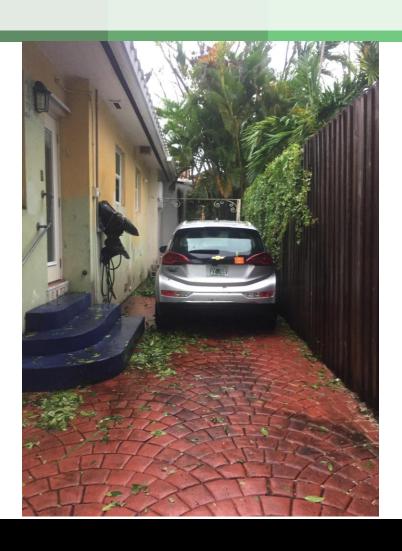
Driving on Sunshine





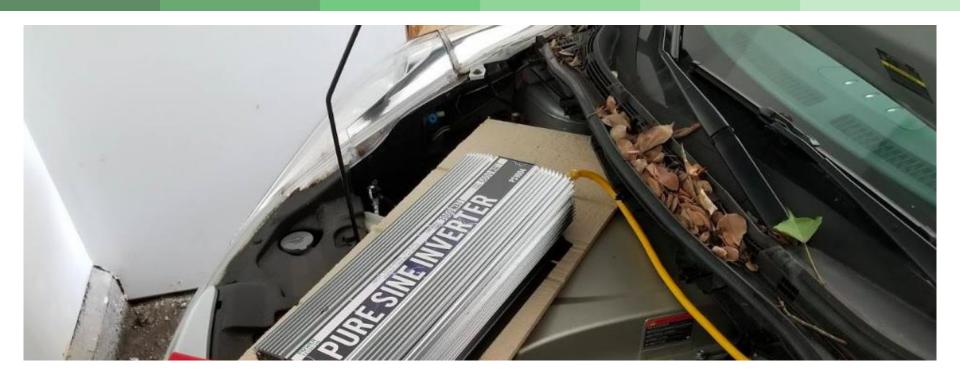


Evacuating in an EV



- Bolting From
 Hurricane Irma:
 Maximizing the
 benefits of solar and
 an electric vehicle
- https://cleanenergy. org/blog/boltingout-of-town-andback/

How to use an Electric Vehicle for Emergency Power



https://bit.ly/EVPower



Let's Connect



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