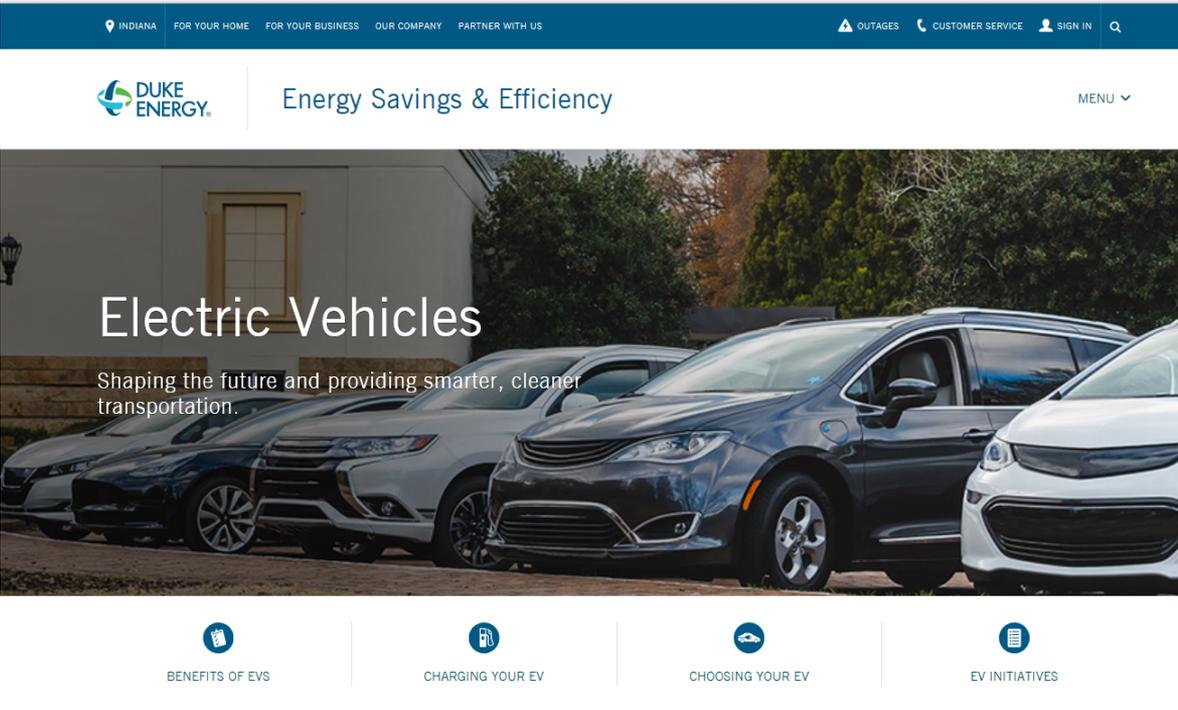




Electric Vehicle Charging 101

Lisa Poger, NC Electric Transportation Manager





Take Charge. Drive Electric
www.duke-energy.com

- Inform
- Encourage
- Demonstrate
- Foundational Infrastructure

Electric Vehicle Savings Calculator

Use this EV Fuel Savings Estimator to calculate your potential fuel savings from driving an EV.

Current Driving Information

Daily Miles Driven:

Miles Per Gallon: Gas Price:

Savings

\$3.15	\$1151.14	\$94.61
Daily	Yearly	Monthly

Significant additional savings can come from a reduction in maintenance costs as EVs do not require oil changes and have far fewer moving parts. [How it's calculated.](#)

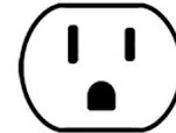


Level 1

Voltage	120V 1-Ph
Typical Charging Loads	1.5 kW
Avg. Charging Time	6-8 hours
Location	Home, Workplace
Est. proportion of Charging	40%

Society of Automotive Engineers

SAE-J1772



NEMA 5-15 OUTLET

Electric Vehicle Charging Infrastructure

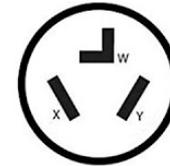


Level 2

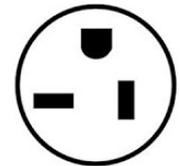
Voltage	208/240V 1-Ph
Typical Charging Loads	3-7 kW
Avg. Charging Time	2-4 hours
Location	Home, Workplace, Public
Est. proportion of Charging	40%

Society of Automotive Engineers

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NEMA 10-30 OUTLET



NEMA 6-20 OUTLET

Electric Vehicle Charging Infrastructure



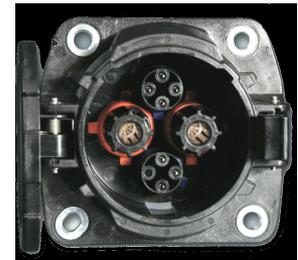
SAE Combo



DC Fast Charge

Voltage	480V 3-Ph
Typical Charging Loads	50-300 kW
Avg. Charging Time	20-30 minutes
Location	Public
Est. proportion of Charging	20%

CHAdeMO



NC Electric Transportation Pilot Program (proposed)

Customer Segment	Units	Program Details
<u>Charging Management</u>		
Residential Rebate	800	\$1,000 rebate for installation of qualified L2 EVSE with load control capabilities. Duke Energy will provide list of qualifying equipment for consumer choice. Customer will take service on a RES rate and allow load control research.
Fleet Rebate	900	\$2,500 rebate for installation of L2 EVSE behind a separate meter, taking service on a commercial TOU rate. Customer choice of EV charging hardware and no network requirements.

- Multiple vehicle models available
- Opportunity to greatly reduce fleet operating and maintenance costs
- Funding opportunities available



Nissan LEAF

Priced from **\$5,888**



