









NC CLEAN ENERGY

TECHNOLOGY CENTER

Advancing Clean Energy for a Sustainable Economy

North Carolina Electric Vehicle Marketplace – Plug-in Hybrid Electric Vehicles | 2019 / 2020

Plug-in hybrid electric vehicles (PHEVs) use batteries to power an electric motor and use gasoline or diesel to power an internal combustion engine or other propulsion source. There are several light-duty PHEVs commercially available, and medium-duty vehicles are now entering the market. Medium- and heavy-duty vehicles can also be converted to PHEVs. Although PHEVs are generally more expensive than similar conventional and hybrid vehicles, some cost can be recovered through fuel savings, a federal tax credit, or state incentives. – *U.S. Department of Energy Alternative Fuels Data Center*

	BMW 530e							
	Year	Combined Electric Fuel Economy (MPGe)	Combined Gas Fuel Economy (MPGe)	Total Range (miles)	Electric Range (miles) ¹	Battery Charging Time	Battery Capacity (kWh)	Base Model MSRP (2019 USD)
	2020	69	27	350	21	3 hrs (240V)	12	\$53,900
	BMW 745e xDrive							
	Year	Combined Electric Fuel Economy (MPGe)	Combined Gas Fuel Economy (MPGe)	Total Range (miles)	Electric Range (miles) ¹	Battery Charging Time	Battery Capacity (kWh)	Base Model MSRP (2019 USD)
	2019	56	22	290	16	4 hrs (240V)	12	\$96,545
	BMW i3 with Range Extender							
	Year	Combined Electric Fuel Economy (MPGe)	Combined Gas Fuel Economy (MPGe)	Total Range (miles)	Electric Range (miles) ¹	Battery Charging Time	Battery Capacity (kWh)	Base Model MSRP (2019 USD)
	2019	100	31	200	126	7 hrs (240V)	42	\$48,300
	Chrysler Pacifica Hybrid							
	Year	Combined Electric Fuel Economy (MPGe)	Combined Gas Fuel Economy (MPGe)	Total Range (miles)	Electric Range (miles) ¹	Battery Charging Time	Battery Capacity (kWh)	Base Model MSRP (2019 USD)
	2020	82	30	520	32	2 hrs (240V)	16	\$39,995
	Toyota Prius Prime							
	Year	Combined Electric Fuel Economy (MPGe)	Combined Gas Fuel Economy (MPGe)	Total Range (miles)	Electric Range (miles) ¹	Battery Charging Time	Battery Capacity (kWh)	Base Model MSRP (2019 USD)
	2020	133	54	640	25	2 hrs (240V)	9	\$27,600
	Kia Niro							
	Year	Combined Electric Fuel Economy (MPGe)	Combined Gas Fuel Economy (MPGe)	Total Range (miles)	Electric Range (miles) ¹	Battery Charging Time	Battery Capacity (kWh)	Base Model MSRP (2019 USD)
	2019	105	46	560	26	2.25 hrs (240V)	9	\$28,500

	Ford Fusion Energi							
	Year	Combined Electric Fuel Economy (MPGe)	Combined Gas Fuel Economy (MPGe)	Total Range (miles)	Electric Range (miles) ¹	Battery Charging Time	Battery Capacity (kWh)	Base Model MSRP (2019 USD)
	2019	103	42	610	26	2.6 hrs (240V)	9	\$36,595
	Mini Cooper SE Countryman ALL4							
	Year	Combined Electric Fuel Economy (MPGe)	Combined Gas Fuel Economy (MPGe)	Total Range (miles)	Electric Range (miles) ¹	Battery Charging Time	Battery Capacity (kWh)	Base Model MSRP (2019 USD)
	2019	65	27	270	12	3 hrs (240V)	8	\$36,900
	Mitsubishi Outlander							
	Year	Combined Electric Fuel Economy (MPGe)	Combined Gas Fuel Economy (MPGe)	Total Range (miles)	Electric Range (miles) ¹	Battery Charging Time	Battery Capacity (kWh)	Base Model MSRP (2019 USD)
	2020	74	25	310	22	3.5 hrs (240V)	12	\$36,095
	Porsche Panamera Turbo S e-Hybrid							
	Year	Combined Electric Fuel Economy (MPGe)	Combined Gas Fuel Economy (MPGe)	Total Range (miles)	Electric Range (miles) ¹	Battery Charging Time	Battery Capacity (kWh)	Base Model MSRP (2019 USD)
	2020	48	20	450	14	3 hrs (240V)	14.1	\$187,700
	Volvo XC60 AWD PHEV							
	Year	Combined Electric Fuel Economy (MPGe)	Combined Gas Fuel Economy (MPGe)	Total Range (miles)	Electric Range (miles) ¹	Battery Charging Time	Battery Capacity (kWh)	Base Model RSRP (2019 USD)
	2020	57	27	520	19	3 hrs (240V)	10.4	\$53,950
	Volvo S60 AWD PHEV							
	Year	Combined Electric Fuel Economy (MPGe)	Combined Gas Fuel Economy (MPGe)	Total Range (miles)	Electric Range (miles) ¹	Battery Charging Time	Battery Capacity (kWh)	Base Model MSRP (2019 USD)
	2020	69	30	510	22	3 hrs (240V)	10.4	\$55,400
	Volvo S90 AWD PHEV							
	Year	Combined Electric Fuel Economy (MPGe)	Combined Gas Fuel Economy (MPGe)	Total Range (miles)	Electric Range (miles) ¹	Battery Charging Time	Battery Capacity (kWh)	Base Model MSRP (2019 USD)
	2020	60	30	490	21	3 hrs (240V)	10.4	\$63,200
	Volvo XC90 AWD PHEV							
	Year	Combined Electric Fuel Economy (MPGe)	Combined Gas Fuel Economy (MPGe)	Total Range (miles)	Electric Range (miles) ¹	Battery Charging Time	Battery Capacity (kWh)	Base Model MSRP (2019 USD)
	2020	55	27	520	18	3 hrs (240V)	11.6	\$67,000

* Information and photos were sourced or estimated from www.fueleconomy.gov and vehicle manufacturer websites.

* MSRP shown does not include tax credits.

* Availability for non-base models was assumed if any version of a given model was available.

* A vehicle was considered available if it could be ordered and delivered to a given dealership.

* As possible, only vehicle specifications for the most recent model year were reported.

¹ Electric range refers to a drive state in which the electric motor in the vehicle is engaged.

NC STATE UNIVERSITY