

SMAT NEWSLETTER



SUMITOMO MITSUI AUTO LEASING & SERVICE (THAILAND) CO., LTD.

Email: smatnewsletter@smauto.co.th Website: <https://www.smauto.co.th> Tel: 0-2252-9511

Types of Electric Vehicles

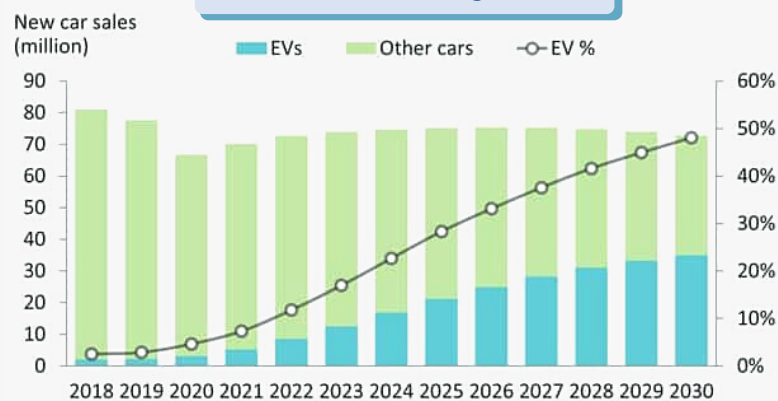
Nowadays, the demand of Electric Vehicles is increasing in global automobile market. Car manufacturers have started planning to produce Electric Vehicles in various models and continuously improving the quality to be alternative options for consumer decisions.

In 2020, Electric Vehicles were sold 3.1 million cars which 4.7% were owned by first EV car owners and proportion of EV car sales is expected to continue rising to 48% by 2030.

There are many shapes, sizes and styles of Electric Vehicles thus the important determinants when choosing the right Electric Vehicles for each person is to understand the different types available.

Electric Vehicles are separated into 4 categories as below.

The Trend of Global Passenger Car Sales

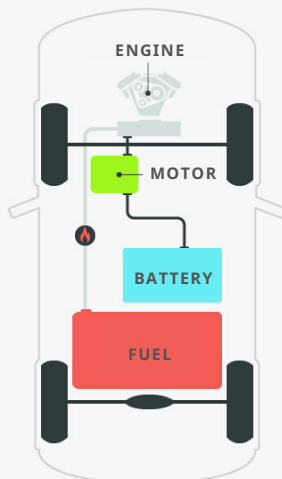


*Excludes commercial vehicles

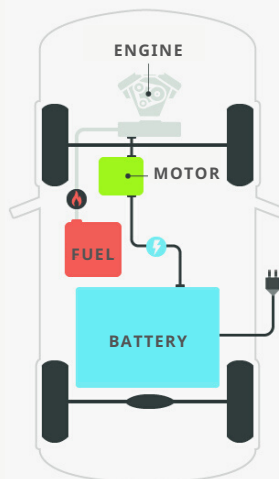
Source: Canalis estimates, January 2021

canalis

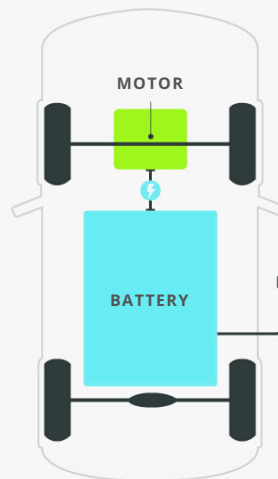
HYBRID Electric Vehicle HEV



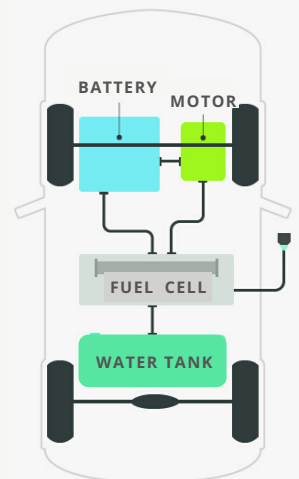
PLUG-IN HYBRID Electric Vehicle PHEV



BATTERY Electric Vehicle BEV



FUEL CELL Electric Vehicle FCEV



VEHICLE SYSTEM

ENGINE



ENERGY












PROS/CONS

PROS: FUEL SAVING
CONS: HIGH MAINTENANCE COST
























PROS: MORE EFFICIENCY THAN HEV
CONS: HIGHER MAINTENANCE COST THAN HEV

PROS: ECO FRIENDLY
CONS: EXPENSIVE AND DIFFICULT TO FIND CHARGING SPOTS

PROS: LESS REFUEL TIME THAN CHARGING BATTERY
CONS: FLAMMABLE RISK

AIR-POLLUTION	 MEDIUM EMISSION	 LOW EMISSION	 NO EMISSION	 NO EMISSION + WATER
VEHICLE MODELS	 <p>TOYOTA CAMRY HYBRID PRICE 1,649,000-1,809,000 THB</p>  <p>HONDA ACCORD HYBRID PRICE 1,639,000-1,799,000 THB</p>	 <p>MERCEDES BENZ E300E PLUG-IN HYBRID PRICE 3,190,000-3,770,000 THB</p>  <p>BMW 530E PLUG-IN HYBRID PRICE 2,999,000-3,739,000 THB</p>	 <p>NISSAN LEAF PRICE 1,990,000 THB</p>  <p>TESLA MODEL 3 PRICE 37,490 USD *NOT FOR SALES IN THAILAND</p>	 <p>TOYOTA MIRAI PRICE 49,500 USD *NOT FOR SALES IN THAILAND</p>  <p>HONDA CLARITY FUEL CELL PRICE 7,836,000 YEN *NOT FOR SALES IN THAILAND</p>

Currently, the most concerns for those who planning to purchase an Electric Vehicle are the higher price more than general vehicles and available Electric Vehicle charging stations in Thailand are not covered in all provinces compared to gas stations. In addition, the number of charging stations and service areas for Electric Vehicle charging spots as of 5 May 2021 are as follows;

Service Providers	Number of Locations	 Normal Chargers	 Fast Chargers	 Total Chargers	 SCAN FOR FINDING CHARGING STATION
	417	1,062	571	1,633	
	68	48	32	80	
	32	36	111	147	
	30	38	10	48	
	26	32	23	55	
	18	62	1	63	
	14	16	21	37	
	10	11	5	16	
	6	18	0	18	Not Available
	4	7	0	7	Not Available
	2	8	0	8	Not Available
TOTAL	627	1,338	771	2,112	

If you are interested in leasing Electric Vehicle or any vehicles, please feel free to contact us via below email.
email : sales@smauto.co.th