

Impact of COVID-19 Outbreak on Electric Vehicle Market in Asia



Electric Vehicle Association of Thailand

ASEAN Sustainable Energy Week
09.06.2020
Mr. Krisda Utamote
krisda.utamote@bmw.co.th

EVAT Establishment.



During the beginning of 2015, The Thai government had shown an attention to promote the electric vehicle (EV) technology and policy to support EV production, R&D and usage in Thailand.

This support motivated individuals from academia and private sector in Thailand to discuss and establish the Electric Vehicle Association of Thailand (EVAT) on September 14, 2015 at Knowledge Exchange (KX) building, which later had been officially registered on November 6, 2015. The present president, Dr. Yossapong Laonual, and committee were firstly elected on June 24, 2016 (officially approved on August 23, 2016). Dr. Yossapong was re-elected as the President on 9 June 2018 for another two-year term.



Present EVAT Committee
2018 – 2020

EVAT Members.



Corporate Members

157


Individual Members

71



Summary of BEV models in Thailand as of Q1 2020.



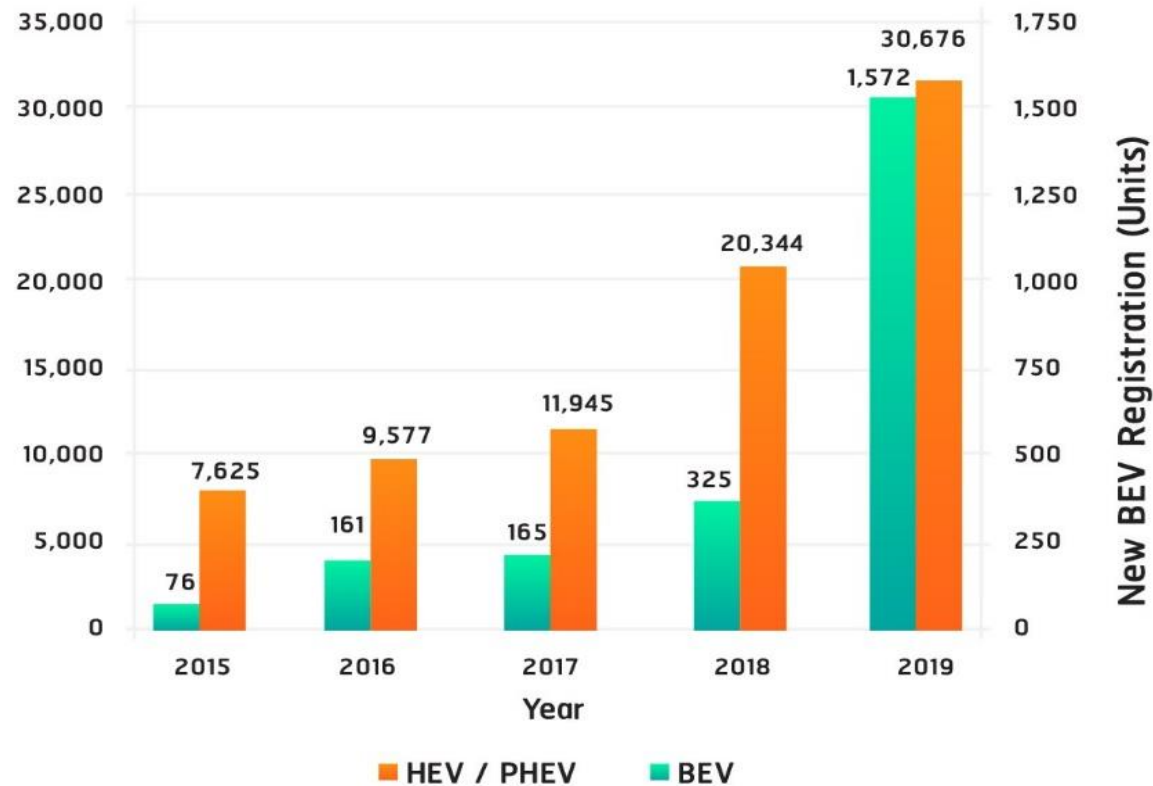
	 Audi	 BMW	 BYD	 BYD	 Forn <small>First One Mile Mobility</small>	 HYUNDAI
	e-tron 55 quattro	BMW i3s	e6	M3, T3	ONE	KONA Electric
						
ประเภทหัวชาร์จ Socket Type	AC Type 2 & CCS2	AC Type 2 & CCS2	AC Type 2	AC Type 2	AC Type 2	AC Type 2 & CCS2
ระยะทางวิ่งสูงสุด EV Range (km)	417	280	400	300	160	312 (SE) 482 (SEL)
ขนาดแบตเตอรี่ Battery Size (kWh)	95	33	80	50.3	11.8	39.2 (SE) 64 (SEL)
ประเทศที่ผลิต Country of Origin						
ภาษีนำเข้า Import Tax	80%	80%	0%	0%	-	40%
ภาษีสรรพสามิต Excise Tax	8%	8%	8%	8%	2%	8%
ราคาขาย Retail Price (Baht)	5,099,000	3,730,000	1,400,000	1,089,000 [M3] 1,059,000 [T3] 5 Seat 999,000 [T3] 2 Seat	664,000	1,849,000 (SE) 2,259,000 (SEL)
ข้อมูลเพิ่มเติม More Info						

	 HYUNDAI	 JAGUAR	 KIA		 MINI	 NISSAN
	IONIQ Electric	I-PACE	All-New Soul EV	ZS EV	MINI Cooper SE	LEAF
						
ประเภทหัวชาร์จ Socket Type	AC Type 2 & CCS2	AC Type 2 & CCS2	AC Type 1 & CCS1	AC Type 2 & CCS2	AC Type 2 & CCS2	AC Type 1 & CHAdeMO
ระยะทางวิ่งสูงสุด EV Range (km)	280	470	452	337	217	311
ขนาดแบตเตอรี่ Battery Size (kWh)	28	90	64	44.5	32.6	40
ประเทศที่ผลิต Country of Origin						
ภาษีนำเข้า Import Tax	40%	80%	40%	0%	80%	20%
ภาษีสรรพสามิต Excise Tax	8%	8%	8%	8%	8%	8%
ราคาขาย Retail Price (Baht)	1,749,000	5,499,000 (S) 6,299,000 (SE) 6,999,000 (HSE)	2,387,000	1,190,000	2,290,000	1,490,000
ข้อมูลเพิ่มเติม More Info						

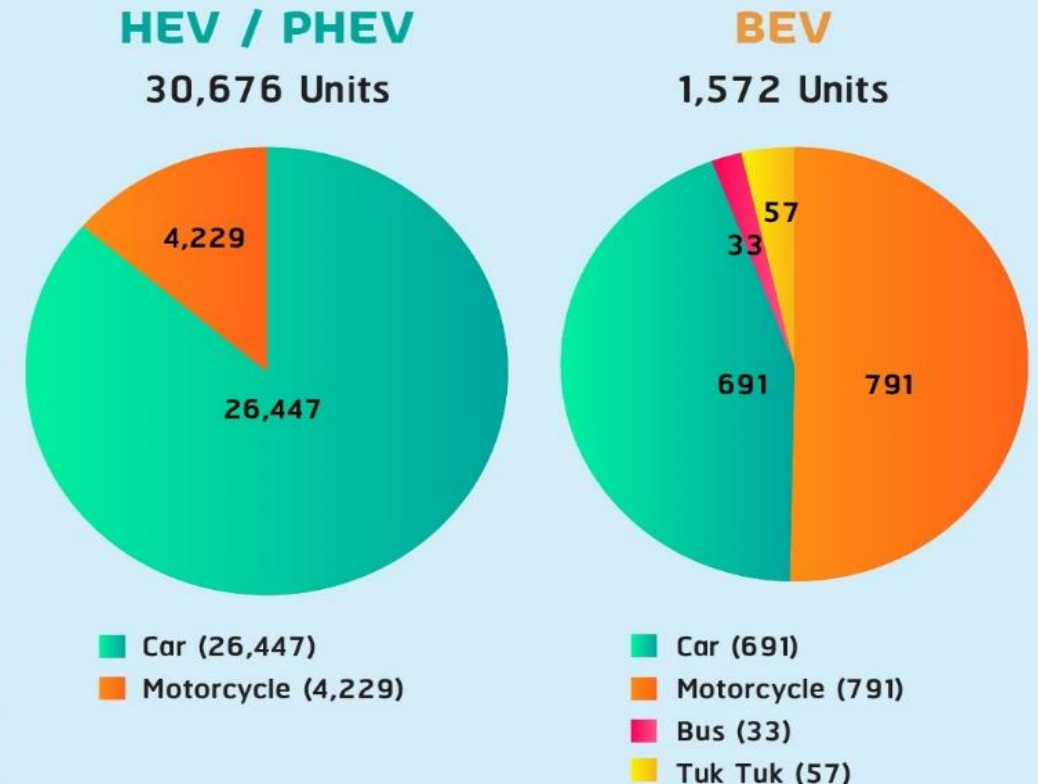
Number of new HEV/PHEV/BEV registration in Thailand (2015-2019).



Number of New xEV Registration Between 2015-2019



Number of New xEV Registration in 2019



Source : Department of Land Transport as of 31st Dec 2019

Number of charging station in Thailand as of 31st Jan 2020.



Number of Electric Vehicle Charging Stations in Thailand

Data as of 31 January 2020

Number of Outlets | จำนวนตัวจ่าย

Service Providers ผู้ให้บริการ	Number of Locations จำนวนแห่ง	Number of Outlets จำนวนตัวจ่าย		
		AC Normal Chargers	DC Fast Chargers	All Total Chargers
	376	573	240*	573
	68	48	32	80
	17	25	0	25
	16	38	1	39
	13	7	9	16

	11	13	13	26
	10	15	12	27
	7	12	0	12
	6	10	2	12
	3	7	0	7
Total	527	748	69	817

* Chargers have been installed and will be opened soon.
* ตู้อัดประจุไฟฟ้าที่มีการติดตั้งแล้วและคาดว่าจะกำลังจะเปิดใช้งานในไม่ช้า

Automotive headline news in the global media.



REUTERS

Volkswagen pumps 2 billion euros into China electric vehicle bet

Source : <https://www.reuters.com/article/us-volkswagen-jac-m-a/volkswagen-pumps-2-billion-euros-into-china-electric-vehicle-bet-idUSKBN235063>



Hertz bankruptcy and a distressed rental car market means more pain for U.S. automakers

Source : <https://www.cnbc.com/2020/05/29/hertz-bankruptcy-distressed-rental-car-market-hurts-us-automakers.html>

The New York Times

The Pandemic will permanently change the auto industry

Source : <https://www.nytimes.com/2020/05/13/business/auto-industry-pandemic.html>

Bangkok Post

Auto parts sector shrivels

Source : <https://www.bangkokpost.com/business/1900085/auto-parts-sector-shrivels>

Key challenges in auto industry amid the COVID-19.



Limited supply of vehicle parts

Suppliers around the globe had to stop their production temporarily or even shut down some production sites permanently.

Legal and trade restrictions, including closed borders, put more pressure on the global parts supply network.



Shut down of manufacturing

Low demand, high vehicle stock, lack of parts supply, just-in-time production strategy and reduced workforce leads OEMs to shut down their production. This is also enhanced by the need to secure liquidity and reduce overtime payments due to the decrease in sales.



Drop in new vehicle sales

Lock down restrictions to contain the virus, curfews, closing of retail centers, dealerships, service facilities, as well as the fear of economic recession all contribute to the decrease in sales and consumer confidences worldwide.



Declining Liquidity

A decline in revenues / cash inflow resulted from the drop in market demand while short-term liabilities and salaries still need to be paid. Cash reserves are likely to be exhausted within a few months.