

EV Transition in Thailand

President
Electric Vehicle Association of Thailand (EVAT)
18th May, 2022



About EVAT

xEV Status SEA and Thailand





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EVAT – Electric Vehicle Association of Thailand



Established: Nov. 2015

Goal: Promote the usage of EV in Thailand

Reduce air pollution

• Improve energy efficiency in the Transport sector

Supports: Industrial Manufacturing, R&D on EV technologies



EVAT's Signature Events













6th International Electric Vehicle Technology Conference and Exhibition (iEVTech 2021)

Moving towards carbon neutral society: Global cooperation in electric mobility

14 - 15 October 2021, Virtual Platform



















Electric Motorcycle Conversion Contest for Business Opportunity

โครงการแข่งขันรถจักรยานยนต์ไฝฝ้าดัดแปลงเผื่อธุรกิจแห่งอนาคต

- 🗸 ต้องเป็นบุคคลสัญชาติไทย
- ประกอบด้วยบุคคลทั้งหมด จำนวน 3-5 ท่าน
- ต้องไม่เป็นบคลากรและ/หรือ อาจารย์ในสถาบันที่ศึกษา

- 🔽 ต้องเป็นนักเรียน/นักศึกษากำลังศึกษาในสถาบันการศึกษาระดับสูงสุด ไม่เกินระดับปริญญาตรี
- 🗾 แต่ละทีมประกอบด้วย นักเรียน/นักศึกษา จำนวน 3-5 ท่าน จากสถาบันการศึกษาเดียวกัน
- 🗹 ต้องมีอาจารย์ในสถาบันที่ศึกษาอยู่เป็นอาจารย์ที่ปรึกษา
- 🗹 ต้องได้รับความเห็นชอบและการสนับสนุนจากผู้บริหารสถานศึกษา







สอบถามเพิ่มเติมได้ที่ สมาคมยานยนต์ไฝฝ้าไทย











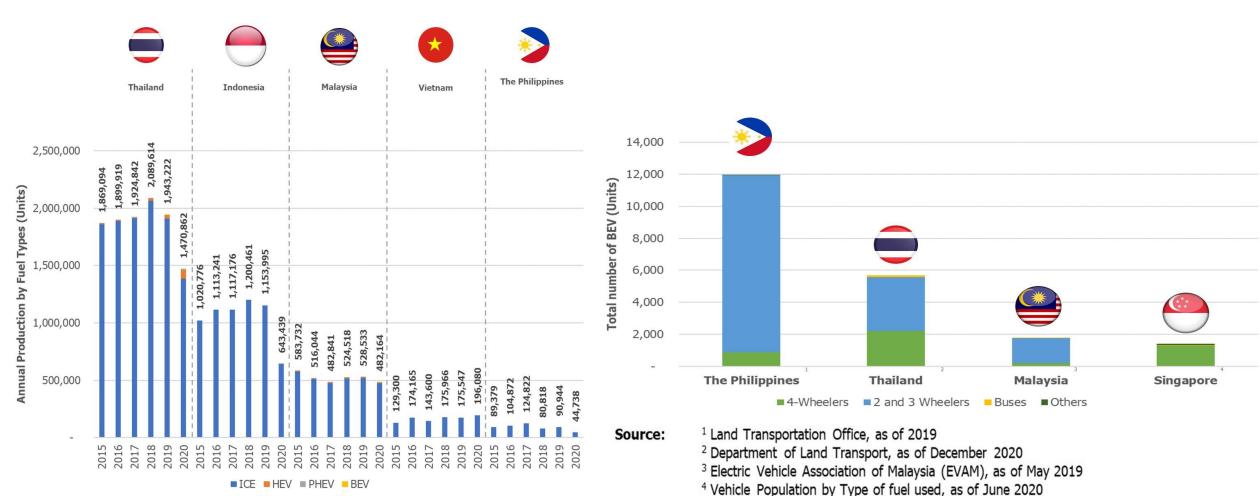
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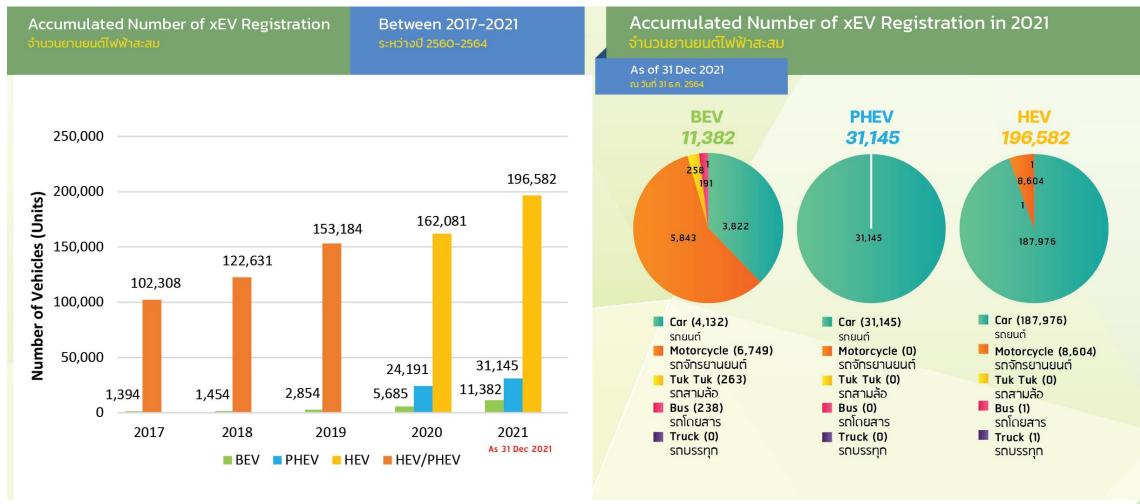
Automotive Production & BEV Registration in Southeast Asia





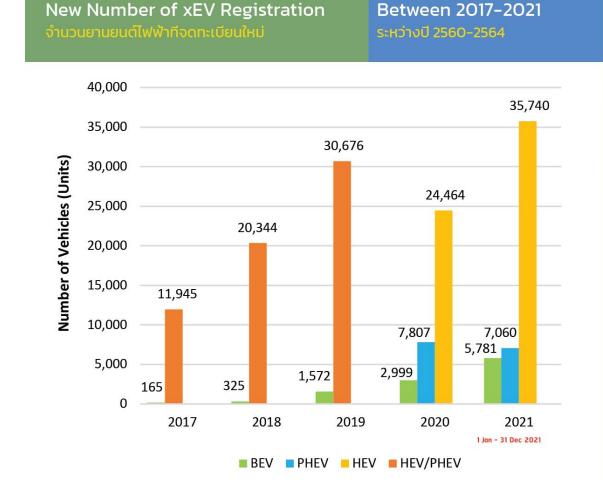
Current Status of xEV Accumulated Registration in Thailand

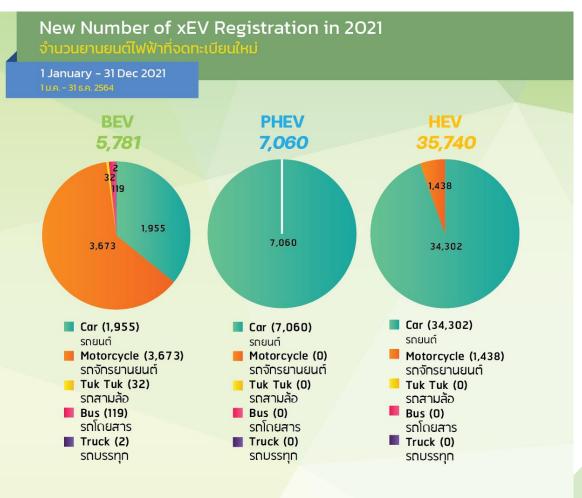




Current Status of xEV Annual Registration in Thailand







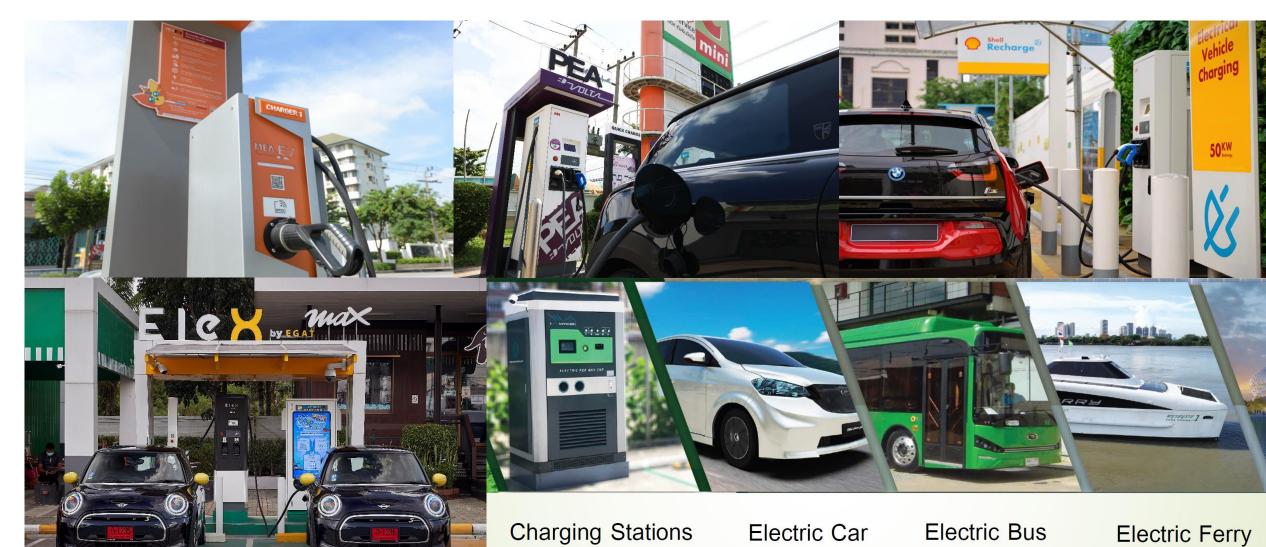
Total Number of Charging Stations in Thailand.





Current Charging Providers.





Current BEV Models in Thailand.



	Audi					BAD	BYD	First One M. e Mobility	@GWM	НУППОВІ	НУППОВІ	
	e-tron 55 quattro	BMW i3s	BMW iX	BMW iX3	BMW i4	e6	M3, T3	ONE	ORA Good Cat	KONA Electric	IONIQ Electric	
BEV 2022					9 70							
ประเภทหัวชาร์จ Socker Type	AC Type 2 & CCS2	AC Type 2	AC Type 2	AC Type 2	AC Type 2 & CCS2	AC Type 2 & CCS2	AC Type 2 & CCS2					
ระยะทางวิ่งสูงสุด EV Range (km)	417	280	630	460	590	400	300	160	400 [TECH] 400 [PRO] 500 [ULTRA]	312 [SE] 482 [SEL]	280	
ขนาดแบตเตอรี่ Battery Size (KWh)	95	33	111.5	80	83.9	80	50.3	11.8	47.8 [TECH] 47.8 [PRO] 63.1 [ULTRA]	39.2 [SE] 64 [SEL]	28	
ประเทศที่ผลิต Country of Origin						*3	*);		*1			
ภาษีนำเข้า Import Tax	80%	80%	80%	80%	80%	0%	0%	-	0%	40%	40%	
ภาษีสรรพสามิต Excise Tax	8%	8%	8%	8%	8%	8%	8%	0%	8%	8%	8%	
ราคาขาย Retail Price (Baht)	5,099,000	2,230,000	5,999,000	3,399,000	4,499,000	1,400,000	1,089,000 [M3] 1,059,000 [T3] 5Seat 999,000 [T3] 2Seat	664,000	989,000 [TECH] 1,059,000 [PRO] 1,199,000 [ULTRA]	1,849,000 [SE] 2,259,000 [SEL]	1,749,000	
ข้อมูลเพิ่มเติม More Info												

Current BEV Models in Thailand.



		JAGUAR	KIA	EXPERIENCE AMAZING			MINI	NISSAN	PORSCHE		TESLA	TOLIVO
		I-PACE	All-New Soul EV	UX 300e	EP Wagon EV	ZS EV	MINI Cooper SE	LEAF	TAYCAN	TTE 500	Model 3	XC40 Recharge
	BEV 2022									=00		
_	ประเภทหัวชาร์จ Socker Type	AC Type 2 & CCS2	AC Type 1 & CCS1	AC Type 2 & DC CHAdeMO	AC Type 2 & CCS2	AC Type 2 & CCS2	AC Type 2 & CCS2	AC Type 1 & DC CHAdeMO	AC Type 2 & CCS2	AC Type 2 & CCS2	AC Type 2 & CCS2	AC Type 2 & CCS2
	ระยะทางวิ่งสูงสุด EV Range (km)	470	452	360	380	337	217	311	407 [4S] 447 [Turbo] 412 [Turbo S]	100	386	418
_	ขนาดแบตเตอรี่ Battery Size (KWh)	90	64	54	50.3	44.5	32.6	40	79 [45] 93 [Turbo&Turbo S]	11	62	78
_	ประเทศที่ผลิต Country of Origin		" " "		*3	*}						*:
_	ภาษีนำเข้า Import Tax	80%	40%	20%	0%	0%	80%	20%	80%	-	80%	0%
	ภาษีสรรพสามิต Excise Tax	8%	8%	8%	8%	8%	8%	8%	8%	0%	8%	8%
	ราคาขาย Retail Price (Baht)	5,499,000 [S] 6,299,000 [SE] 6,999,000 [HSE]	2,387,000	3,490,000	988,000	1,190,000	2,290,000	1,490,000	7,100,000 [4S] 9,900,000 [Turbo] 11,700,000 [Turbo S]	438,000	2,990,000	2,590,000
	ข้อมูลเพิ่มเติม More Info				0 % C 0							



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EVAT as a part of the National EV Policy Committee.





COMMITTEE

4 subcommittees will be set up in order to formulate action plans and drive the goals

- 1) Promotion of the manufacturing of EV and EV components (EVAT and TAIA participation)
- 2) Development of infrastructure and battery (EVAT and TAIA participation)
- 3) Impact assessment re: GHG and fuel stock
- 4) Promotion of EV usage (EVAT and TAIA participation)

Promote government usage of ZEV (immediate plan) Plan charging/battery swapping stations

- Restructure excise tax
- Progressive annual vehicle tax
- Setup battery standard and test center
- Management of ELVs, used battery and solar cell
- Development of human resource

MEASURE

Thailand's ZEV Targets for All Types of Vehicles.



Target	Type of Vehicles	Estimated number of ZEV per Year					
Target	Type of Vehicles	2025	2030	2035			
	Passenger cars / Pick up trucks	225,000 (30%)	440,000 (50%)	1,154,000 (100%)			
	Motorcycles (units)	360,000 (20%)	650,000 (40%)	1,800,000 (100%)			
Heago	Buses	18,000 (20%)	33,000 (35%)	83,000 (100%)			
Usage	Tuk Tuks	500 (85%)	2,200 (100%)	2,800 (100%)			
	Ships	130 (12%)	480 (35%)	1,800 (100%)			
	Rail system	620 (70%)	850 (85%)	1,170 (100%)			
	Passenger cars / Pick up trucks	225,000 (10%)	725,000 (30%)	1,350,000 (50%)			
	Motorcycles (units)	360,000 (20%)	675,000 (30%)	1,850,000 (70%)			
Production	Buses	18,000 (35%)	34,000 (50%)	84,000 (85%)			
Production	Tuk Tuks	500 (85%)	2,200 (100%)	2,800 (100%)			
	Ships	130 (12%)	480 (35%)	1,800 (100%)			
	Rail system	620 (100%)	850 (100%)	1,170 (100%)			

Source: National EV Policy Committee

Charging Infrastructure Targets.



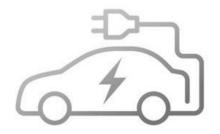
Passenger Cars and Pick Up Trucks								
Year	Accumulated targets of ZEV cars (million units)	DC Quick charger targets						
2025	0.4	2,200-4,400						
2030	2.0	12,000						
2035	6.4	36,500						

Electric motorcycles								
Year	Accumulated targets of electric motorcycles (million units)	Charger targets	Estimated 2% electric motorcycle taxi	Charger targets				
2025	0.6	1,600	12,000	260				
2030	3.3	8,000	65,000	1,450				
2035	8.8	20,000	176,000	4,000				

Source : National EV Policy Committee

The Cabinet recently approved BEV Support Schemes.







- Import duty reduction for CBU BEV cars up to 40% (2022-2023)
- Excise tax reduction from 8% to 2% (2022-2025)
- Monetary support at THB 70,000/unit for BEV with < 30 kWh battery and THB 150,000/unit for BEV with > 30 kWh battery (2022-2025)

BEV car with price 2.0-7.0 mio THB

- Import duty reduction for CBU BEV cars up to 20% (2022-2023)
- Excise tax reduction from 8% to 2% (2022-2025).



BEV pick-up truck

- Excise tax reduction to 0% (2022-2025)
- Monetary support at THB 150,000/unit for BEV pick-up truck with > 30 kWh battery (2022-2025)



BEV motorcycle < 150,000 THB

 Monetary support at THB 18,000 for BEV motorcycle, both CBU and CKD (2022-2025)

General Conditions

- Must be committed to local assembly / production of BEV.
- By 2024, locally assembly / production of BEV cars / motorcycles must be equal to CBU units which are imported during 2022-2023.
- In case of local assembly / production of BEV cars/motorcycles extension until 2025, the number of locally production must be at least 1.5x of CBU units during 2022-2023.
- For locally assembly / production of BEV, key components such as battery, PCU inverter, Traction Motor, etc. must be sourced locally.

Source: Krungthep Turakij news

Summary of Business Opportunities in Thailand.

locally assembly of ZEV within a specified timeline.



 The Cabinet has recently approved demand stimulus packages for ZEV which includes monetary support schemes and up to 0% import duty for ZEV, given that such importers / car manufacturers are committed to the

- ZEV Target for passenger car and pickup truck usage is 50% in 2030 (440,000 units / yr.), and 30% for production in 2030 (725,000 units / yr.)
- Demand in battery cell, battery control units, charging station equipment will be very high by 2030.



Thank You



Electric Vehicle Association of Thailand (EVAT)

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