

Promoting Electromobility in the ASEAN region.

President

Electric Vehicle Association of Thailand (EVAT)

7th July, 2021



About EVAT

xEV Status in 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 – Electric Vehicle Association of Thailand





กรรมการ การฟิกอบรม

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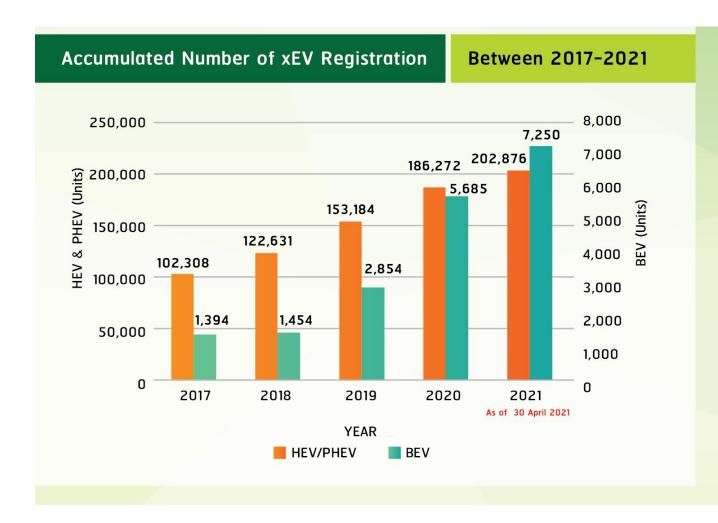
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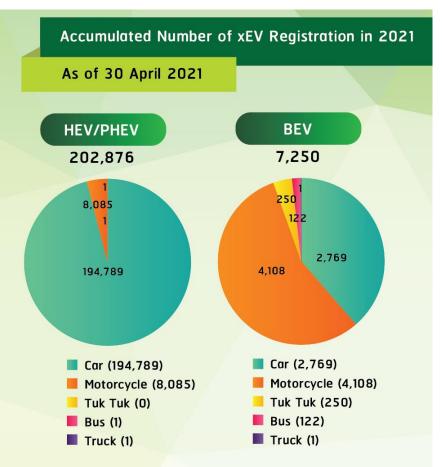
xEV Status in Thailand



Current Status of xEV Accumulative Registration in Thailand



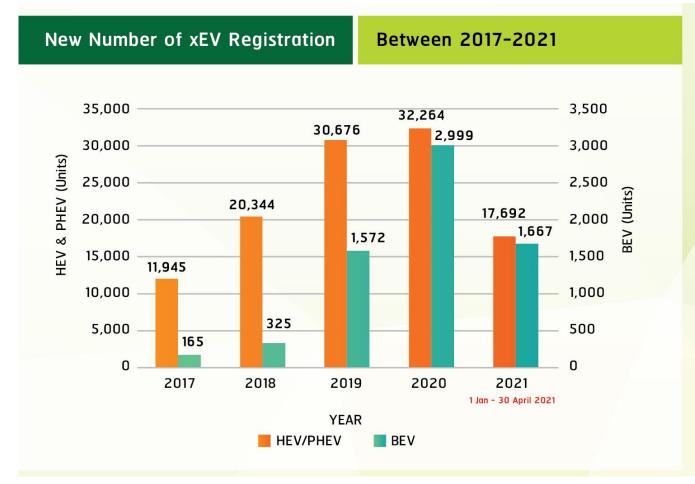


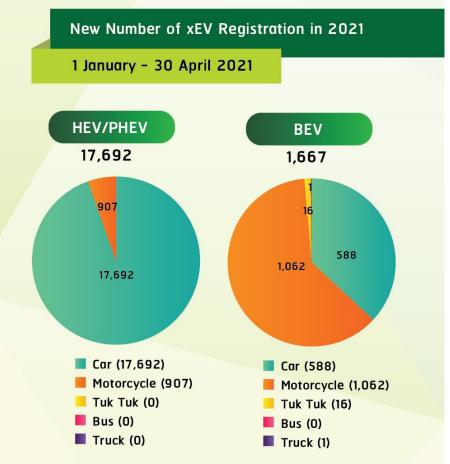


Source: Electric Vehicle Association of Thailand

Current Status of xEV Annual Registration in Thailand







Source: Electric Vehicle Association of Thailand

Total Number of Charging Stations in Thailand.





Source: Electric Vehicle Association of Thailand

EV Charging Consortium Initiative.



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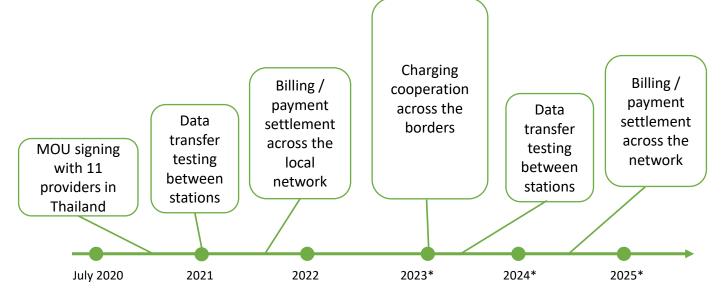












Objectives – xEV drivers can easily access any charging stations in Thailand, and across the borders.

Information Classification: General



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THAILAND'S ZEV TARGETS FOR PASSENGER CARS AND PICK UP TRUCKS.



ZEV USAGE TARGETS (BEV & FCEV).							
2022	2025	2030	2035				
30,000 UNITS = 4% ACCUMULATIVE 52,000 UNITS	225,000 UNITS = 30% ACCUMULATIVE 402,000 UNITS	440,000 UNITS = 50% ACCUMULATIVE 2,050,000 UNITS	1,154,000 UNITS = 100% ACCUMULATIVE 6,400,000 UNITS				

ZEV PRODUCTION TARGETS (BEV & FCEV). 2025 2030 2035 2022 225,000 UNITS = 10% 725,000 UNITS = 30% 1,350,000 UNITS = 50% 30,000 UNITS = 2% **ACCUMULATIVE ACCUMULATIVE ACCUMULATIVE** ACCUMULATIVE 400,000 UNITS 2,935,000 UNITS 8,265,000 UNITS 50,000 UNITS

Source: National EV Policy Committee

Information Classification: General

Charging Stations Estimation in Thailand.



Est. 160,000 public charging points by 2030*

Renovation Cost for Public Charging	EV Supply Equipment Cost	Systems	
27-36 Billion THB	22 Billion THB	Depending on included features	
(0.9 Million THB per station) For economic efficiency, 1 station should have 3-4 outlets. So, the total accumulated renovation cost between 2020- 2030 is around 27-36 billion THB.	The total accumulated investment of public EV charging equipment between 2020-2030	Such as payment system, software enabling energy consumption monitoring and data analysis.	

Year	Total Public Charging Points	Total Public Fast Charging Points	Total Public Slow Charging Points	Ratio of Public Charging Points per BEV and PHEV
2019	817	69	748	25.5
2030	121,199	15,477	105,722	18

Notes:

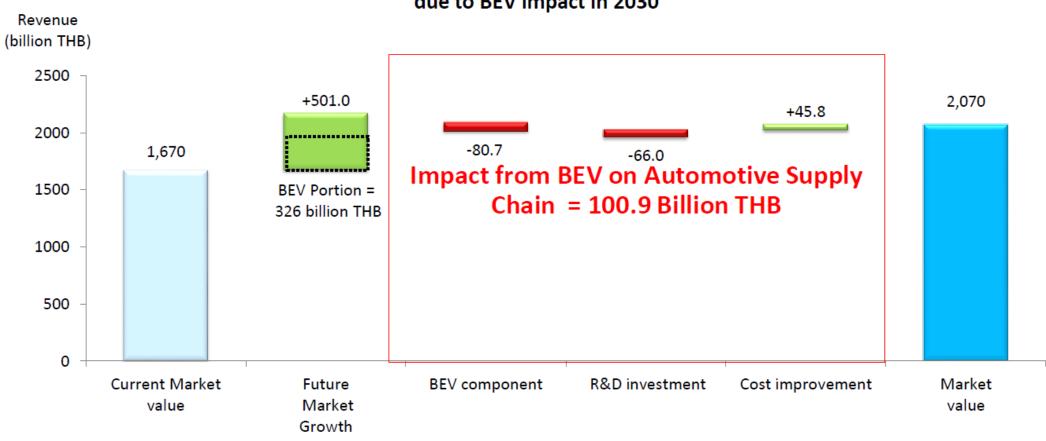
- Accumulative target 2030 for ZEV passenger cars & pickup truck is 2,050,000 units.
- Accumulative target 2030 for ZEV buses is 160,000 units.
- Accumulative target 2030 for ZEV motorcycle is 3,200,000 units.
- The National EV Policy Committee set DC public chargers' target at 12,000 in 2030.
- Forecasted opportunity of EV charging equipment supply worth USD 688 million.

Source: Frost & Sullivan
Information Classification: General

IMPACT ASSESSMENT OF PRODUCTS IN TOTAL. POTENTIAL LOSS OF OVER 100 BILLION THB, BUT MARKET VALUE INCREASE IN TOTAL BY 2030.



Revenue Projection for Automotive Suppliers due to BEV impact in 2030



Source: Frost & Sullivan

Summary of Business Opportunities in Thailand.



- The National EV Policy Committee has recently been formed with 4 subcommittees to work on various demand incentives, tax support schemes, ZEV industry and battery production supports, etc. New support schemes are expected to be announced in due course.
- 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.thus increasing demand for ZEV parts and related component supplies.
- Demand in battery cell, battery control units, charging station equipment will be very high by 2030.



Thank You



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