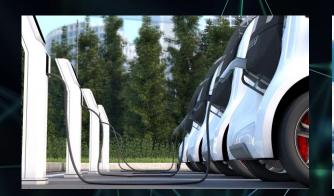


The Automotive industry is undergoing a profound transformation



Acceleration of EV

Global EV sales grew by 62% in 2022 with 14% share of total new passenger vehicle sold. Expected to reach approx. 30% by 2026 and Sustainability commitments of Automakers



Increased Regulation 1

Stringent carbon emission regulation, Incentives for production and sales, ICE phase-out in Europe, Tax rebates, IRA, European Green Deal, Circular Economy, Raw Material sourcing



Reshaping of the Ecosystem ?

2x increase in use of Semiconductor in EV (vs. ICE), Big data and analytics in Automotive, EV charging infrastructure, EV Battery manufacturers. New entrants

Life Is On

Such transformation comes along with certain challenges



Power Demand

5x increase in electricity demand by EV in 2030 (vs 2022)



Electric Vehicle Batteries

Demand surge 9x in 2030 (vs 2021); cost of production, chemistry evolution



Energy Crisis

Record high energy price, significant impact on manufacturing output and cost of production



Range Anxiety

While autonomy of battery is improving, Public charging infrastructure is still a concern



Raw Materials

Increase in price, geo-political landscape and demand shift leading to disrupted supply-chain and shortages



Affordability

EV price is higher than that of ICE

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The automotive industry has already started addressing those challenges



- Energy Efficiency
- Integration of renewable
- Purchase Power Agreement
- Prosumer

Green & Resilient Energy Sourcing





- Lower production cost
- End-to-end data traceability
- Remote monitoring

Digitization for better efficiency



- Rapid growth of Fast charging
- Multiple players are investing
- V2X
- Load management optimization

EV Charging infrastructure





Innovation

- Solid State Battery
- New business models
- Megawatt Charging System
- Battery swapping / Induction

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In the ASEAN region, Thailand is leading that transition to EV

Market insights

Auto Manufacturers

[2022] Production 1.88 M [2023] +3.5%

62% Picks-up 35%

Exports Passenger cars Domestic Sales 1 M

0.8 M



+32k BEV +42k PHEV Cumulative Eo2022

1.239 Charging Stations 3,799 Chargers Cumulative Eo2022

Thailand EV's Vision



"To be one of the most important EV production bases and component parts in 2035"



Production



Public Charging

Source: The Plan of the National Electric Vehicle Policy Committee

Policy & Investment

Thailand as a Regional EV Hub with 30@30 policy (30% of ZEV / automobiles produced in Thailand to be EV)

Government Incentives

- o CIT exemptions for domestic manufacturing (up to 13 vears)
- Excise tax cut from 8 percent to 2 percent for imported EVs
- 20~40% reduction in import duty for completely built-up (CBU) of battery EVS
- Up to 70K~150K subsidy for CKD and CBU units

Investment

- Automotive 2nd largest FDI sector (50% being EV in FY2022)
- o BOI's approval of total 26 EV production projects valuing 86.8MB, additional 2 large FDI investments from China in H1 (BOI PR 20 Apr 2023)

Charging Ecosystem

Dynamic and rapidly developing ecosystem, diverse contribution by Public & Private sectors

Top 5 EVC Service Providers (excl. car brand-exclusive chargers)

| Number of Locations จำนานแห่ง | DC CSS 2 | DC CHAdeMO | AC TYPE 2 | ALL |
|----------------------------------|----------------------|------------|-----------|-------|
| 406 | 576 | | 579 | 1,155 |
| 252 | 390 | 78 | 320 | 788 |
| 189 | 45 | 13 | 421 | 479 |
| 184 | 56 | 1 | 489 | 546 |
| 164 | 272 | 215 | 112 | 599 |
| TOTAL 1,482 | OTHER DESIGNATION OF | 1,471 32 | 2,833 | 4,628 |

Source: EVAT 'Current Status' 22nd of May 2023



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