



**International Electric Vehicle
Technology Conference and Exhibition**
5th International Electric Vehicle Technology Conference and Exhibition
(iEVTech 2020)

Scaling-up Electric Mobility & Beyond

23 - 26 September 2020

**Bangkok International Trade & Exhibition Centre (BITEC),
Bangkok, Thailand**

Organized by
Electric Vehicle Association of Thailand (EVAT)

Co-organized by
Informa Markets Co., Ltd.

With the aim to help coordinate and promote green transportation in the region, Electric Vehicle Association of Thailand (EVAT) in partnership with Informa Market has the pleasure to give a warm welcome to all speakers and delegates from ASEAN and its partners around the world to the Fifth International Electric Vehicle Technology Conference & Exhibition (iEVTech 2020). The event this year will be held on 23 - 26 September 2020 at BITEC, Bangkok, Thailand. The conference will be focused on the following topics

- Policy and Trends
- Energy Supply & Storage Systems
- Traction Motor & Drive Systems and Components
- Charging Infrastructure

The organizer hopes that iEVTech 2020 will become an international platform for researchers, designers, developers, policy maker and EV potential users to gather knowledge from leading experts around the world and share ideas and from one another. We hope that such information exchange will contribute to the development of electrified transport technology toward the smart and sustainable transport in ASEAN and the world.



International Electric Vehicle
Technology Conference and Exhibition
Conference Committee

Honorary Chair

C. C. Chan	President of EV Association of Asia Pacific (EVAAP)
Yoichi Hori	The University of Tokyo, Japan
Yossapong Laoonual	Honorary Chairman of EVAT, Thailand

Advisor

Pisit Rangsaritwutikul	President of Thailand Automotive Institute and Advisors of EVAT, Thailand
Chana Yiangkamolsing	Advisors of EVAT, Thailand

General Chair

Krisda Utamote	President of EVAT, Thailand
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General Vice Chair

Pongpan Kaewtatip	Vice President of EVAT, Thailand
Sanpetch Tangsawapark	Vice President of EVAT, Thailand
Uthane Supatti	Vice President of EVAT, Thailand
Chantakorn David Chamsilp	Vice President of EVAT, Thailand

Technical Program Committee Chair

Pongpan Kaewtatip	Vice President of EVAT, Thailand
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Committee

Amornrat Kaewpradap	KMUTT, Thailand
Kitchanon Ruangjirakit	KMUTT, Thailand
Nuwong Chollacoop	MTEC, NSTDA
Pimpa Limthongkul	MTEC, NSTDA

Exhibition Committee Chair

Chantakorn David Chamsilp	Vice President of EVAT, Thailand
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Committee

Tamonwan Cholpratin	Kistler
Wilunda Wattanadumrong	Deloitte



International Electric Vehicle Technology Conference and Exhibition

Local Arrangement Committee

Atthawit Techawiboonwong	BMW Group Thailand
Suthin Channarong	KMUTT, Thailand
Charintorn Wongsommit	Rotary Club of Khannayao
Warakorn Katikawong	Thai Electric Vehicle
Savittree Kaewpuangngam	Honda AP
Pimuk Pengpit	Committee of EVAT, Thailand
Nattanai Kunanusont	NSTDA, TESTA

Conference Secretary

Uthane Supatti	Kasetsart University, Thailand
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Conference Co-Secretary

Montira Watcharasukarn	AFRY, Thailand
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International Electric Vehicle Technology Conference and Exhibition

Important Dates

Online Registration:	15 July - 9 September 2020
Early-Bird Registration:	15 July - 7 September 2020 (Online Only)
Conference and Exhibition:	23 - 26 September 2020

Registration

Categories	Early-Bird Rate (THB) (15 April - 7 September 2020)		Normal Rate (THB) (After 7 September 2020)	
	Member	Non-Member	Member	Non-Member
Full Registration	3,500	5,500	5,500	8,000
Day Pass -23 September	Free	1,500	1,500	2,000
Day Pass - 24 or 25 September	2,000	2,500	2,500	3,500

REMARKS:

1. Full Registration Rate covers 23 - 26 September Conference including Networking Reception Night (23 September by Informa Markets) and Dinner Banquet by EVAT.
2. Member means member of EVAT, EVAAP, ASEAN EV Associations (EVAM, EVAP, EVAS), EV Asia Exhibitors and KEVA. Please note that members of the above associations are required to present a valid membership card/document at the registration desk. Failure to provide a valid membership card/document will result in extra charge at non-member rates.

Register website: www.evat.or.th

Contact:

Uthane Supatti, PhD
Conference Secretary
Email: iEVTech@evat.or.th
Tel: +66 (0) 86-390-3339



International Electric Vehicle Technology Conference and Exhibition Program at a Glance

Time/Date	23 September 2020		24 September 2020		25 September 2020		26 September 2020			
08:00-09:00	Registration		Registration			Registration				
09:00-12:00	ASEAN Sustainable Energy Week 2020 Opening Ceremony	Exhibition (10:00-18:00) EV Drive and Ride (11:00-17:00)	Honoring Nobel Prize in Chemistry 2019 and TESTA MOU Signing Ceremony Session Chair: Dr. Pimpa Limthongkul <i>(Room SILK 3-4)</i>		Exhibition (10:00-18:00) EV Drive and Ride (11:00-17:00)	Electric Two and Three Wheelers Standard in ASEAN Hosted by UN Environment Session Chair: Dr. Nuwong Chollacoop <i>(Room SILK 4)</i>	CIS session By CharIN <i>(Room SILK 3)</i>	Exhibition (10:00-18:00) EV Drive and Ride (11:00-17:00)	Exhibition (10:00-18:00) EV Drive and Ride (11:00-17:00)	
12:00-13:00										
13:00-17:00	iEVTech Opening Ceremony and E-Mobility CEO Forum <i>(Room SILK 3-4)</i>		EV Knowledge Sharing <i>(Room SILK 4)</i>	Taiwan Mobility Hosted by mTARC Session Chair: Dr. Kitchanon Ruangjirakit <i>(Room SILK 3)</i>			Electric Bus Hosted by GIZ Session Chair: Dr. Uthane Supatti <i>(Room SILK 4)</i>			
18:00-20:00			Banquet Hosted by EVAT							



International Electric Vehicle Technology Conference and Exhibition

23 September 2020

Afternoon Session (12:30 – 20:00)

Room SILK 3-4, BITEC, Bangkok

CEO eMobility Forum: SCALING UP ELECTRIC MOBILITY & BEYOND 2020

Opening Ceremony

Agenda

12:30 – 13:30	Registration
13:30 – 13:50	Welcoming speech by organizers Mr. Krisda Utamote, President of Electric Vehicle Association of Thailand Mr. Sanchai Noombunnam, Deputy Managing Director, Informa Markets - Thailand
13:50 – 14:15	Opening Remark and Special keynote “Electric Vehicle Promotion Policy of Thailand; from now and beyond” by Representative of the Minister of Industry
14:15 – 14:30	Photo session
14:30 – 14:45	Coffee Break
14:45 – 17:00	CEO eMobility Forum on “Scaling-up Electric Mobility & Beyond GWM (Thailand) Mr. Zhang Jiaming, Chief Executive Officer (TBC) MG Sales Thailand Mr. Zhang Haibo, President (TBC) Nissan Motor Thailand Mr. Ramesh Narasimhan, President Panus Assembly Co. Ltd Mr. Panus Watanachai, Chief Executive Officer Skywell Thailand Dr. Pasin Suebsubanunt, Co-Founder of Skywell (Thailand) and Co-Founder of Academic Digital Activity Platform Volvo Car Thailand Mr. Chris Wailes, Managing Director Mercedes Benz Thailand Mr. Roland Folger, President & CEO Moderator Ms. Veenarat Laohapakakul, Newscaster of one31 Channel
17:00 – 17:10	Closing Session by Dr. Pongpan Kaewtatip, Vice President, EVAT



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Morning Session (08:30 – 12:15)

Room SILK 3-4, BITEC, Bangkok

iEVTech 2020

Honoring Nobel Prize in Chemistry 2019 "Lithium-ion batteries"

Opening and MOU Signing Ceremony of "Thailand Energy Storage Technology Alliance (TESTA)"

Agenda

(Session Chair: Dr. Pimpa Limthongkul)

08:30 – 09:00	Registration
09:00 – 09:10	Introductory Remark President of National Science and Development Agency, Minister of Higher Education, Science, Research and Innovation (Dr. Narong Sirilertworakul)
09:10 – 09:15	Opening Remark Minister of Higher Education, Science, Research and Innovation (Dr. Anek Laothamatas) - (TBC)
09:15 – 09:20	Photo Session
09:20 – 10:00	Plenary Speaker: Honoring Nobel Prize in Chemistry 2019 Dr. M. Stanley Whittingham, Nobel Laureate - VDO call in
10:00 – 10:25	Thailand Energy Storage Technology Alliance (TESTA) Opening Event. MOU Signing Ceremony for Partnership Agreement among founding institutes: NSTDA, KKU, KMUTT, KMUTNB, EVAT
10:25 – 10:40	Coffee break
10:40 – 11:10	Battery ESS powering the future of Thailand industry Rosaya Teinwan (Executive Vice President – Business Development, Global Power Synergy Public Company Limited)
11:05 – 11:35	Keynote Speaker: Energy Storage Industry Pathway Thomas Leonard (Country Manger, Thailand & Indonesia, Energy & Renewables, DNVGL)
11:35 – 11:55	Energy Storage Development Progress by BANPUNEXT James Rama Phataminvipha (Group Senior Vice President – Energy Technology, Banpu NEXT Co., Ltd.)
11:55 – 12:15	Energy Storage Development Progress by Thonburi Energy Storage Manufacturing (TESM) Ratapon Viriyaphant (Company Executive, Thonburi Energy Storage Manufacturing)



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EV Knowledge Sharing Session

Agenda

(Session Chair: Tamonwan Cholpratin)

12:30 – 13:00	Registration
13:00 – 13:30	Keynote Speaker: (TBC) EGAT
13:30 – 14:00	Keynote Speaker: Group Electrified Vehicles Outlook Mr. Anantadej Intravisit, E-Mobility Manager, BMW Thailand
14:00 – 14:30	Keynote Speaker: Radical Electric and Energy Solutions with Breakthrough Technologies. Mr. Panus Watanachai , CEO, Panus Assembly Co. Ltd
14:30 – 14:45	Coffee Break
14:45 – 15:15	Keynote Speaker: (TBC) Nissan
15:15 – 15:45	Keynote Speaker: (TBC) MG
15:45 – 16:15	Keynote Speaker: (TBC)
16:15 – 20:00	Dinner Banquet hosted by Electric Vehicle Association of Thailand (EVAT) Fahrenheit Restaurant, BITEC



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**Taiwan Mobility Session
(Parallel Session)**

Agenda

(Session Chair: Dr. Kitchanon Ruangjirakit)

13:00 – 13:30	Registration
13:30 – 13:35	Welcome to Taiwan Mobility Session
13:35 – 13:40	Opening Remarks Mr. Der-Sheng Lin, Deputy Director General, Department of Industrial Technology, Ministry of Economic Affairs
13:40 – 14:20	Policy Making for Autonomous Vehicles: Taiwan Sandbox Experiment Project and Benchmark by Representative from The Office of Unmanned Vehicle Technology Experiment Program (UVTEP) Department of Industrial Technology, Ministry of Economic Affairs
14:20 – 15:10	The Development of Autonomous Driving from Academia's Perspective: Self-driving from Labs to Commercialization Dr. Jiun-In Guo, Associate Dean, College of Electrical and Computer Engineering, National Chiao Tung University
15:10 – 17:00	Taiwan's Sandbox Program: Experimental Projects Embedded with Regional Characteristics The Realization of Autonomous Driving in Research Institute: Winbus for Tourism in Changhua City by Automotive Research Testing Center (ARTC) The Participation of Private Sector: The Implementation in Taoyuan Airport and New Taipei City By Kingwaytech
17:00 – 17:20	Q & A
17:20 – 17:30	Conclusion and Closing Remarks Dr. Jet P.H. Shu, Advisor, Department of Industrial Technology, Ministry of Economic Affairs
17:30 – 20:00	Dinner Banquet hosted by Electric Vehicle Association of Thailand (EVAT) Fahrenheit Restaurant, BITEC



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Morning Session (08:30 – 12:00)

Room SILK 4, BITEC, Bangkok

iEVTech 2020

Electric Two and Three Wheelers Standard in ASEAN

Hosted by UN Environment

(Parallel Session)

Agenda

(Session Chair: Dr. Nuwong Chollacoop)

08:30 – 09:00	Registration
09:00 – 09:10	Welcoming speech Mr. Bert Fabian, UN Environment
09:10 – 09:20	Group photo
09:20 – 09:50	Keynote: Policy guidelines for electric 2-3 wheelers for the ASEAN Dr. Horizon Gitano – UN Environment Consultant
09:50 – 10:10	Role of Policymaking in Mainstreaming Electric Mobility in Southeast Asia Ms. Glynda Bathan-Baterina – Clean Air Asia
10:10 – 10:30	How ASEAN EV Association push forward electric 2-3 wheelers in ASEAN Dr. Manny Biona – EVAP
10:30 – 10:50	Coffee Break
10:50 – 11:10	Thailand energy efficiency labeling for electric 2 wheeler Mr. Patana Sangsriroujana – Deputy Governor (Strategy), EGAT
10:10 – 11:55	Updates from “Integrating electric 2&3 wheelers into existing urban transport modes in developing and translational countries” Philippines: Mr. Leonido J. Pulido III – Department of Energy (TBC) Thailand: Dr. Nuwong Chollacoop – MTEC Vietnam: Prof. Dr. Vu Ngoc Khiem – University of Transport Technology
	Moderator Mr. Bert Fabian
11:55 – 12:10	Q & A



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Morning Session (08:30 - 12:00)

Room SILK 3, BITEC, Bangkok

iEVTech 2020

**Charging Infrastructure System Session by CharIN
(Parallel Session)**

Agenda

(Session Chair: Dr. Uthane Supatti)

08:30 - 09:00	Registration
09:00 - 09:10	Opening Remark by Jacques Borremans, CharIN
09:10 - 09:35	Collaboration between ASEAN countries, from battery safety, charging safety to vocational training, Labour safety etc. Volker Blandow, TUV-Sud
09:35 - 10:00	A Case for Low Power DC Nicholas Yeoh, Rectifier (Singapore)
10:00 - 10:25	Hyundai EV Strategy Tri Wahono, Hyundai
10:25 - 10:40	Coffee Break
10:40 - 11:05	Charging Infrastructure for Public Transport Kumail Rashid, ABB (Singapore)
11:05 - 11:30	Interoperability by connecting ASEAN cities Jacques Borremans, CharIN
11:30 - 12:00	Discussion



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Afternoon Session (13:30 – 17:00)

Room SILK 4, BITEC, Bangkok

iEVTech 2020

Electric Bus

Joint Coordinated by GIZ

Agenda

(Session Chair: Dr.Uthane Supatti)

13:30 – 14:00	Registration
13:30 – 13:40	Welcome and introduction by Carolin Capone (GIZ)
13:40 – 14:00	E-bus technologies and charging strategies Alok Jain, UITP Asia <ul style="list-style-type: none">• Battery electric buses:<ul style="list-style-type: none">○ Night charging○ Intermediate charging○ Opportunity charging - End of route○ Opportunity charging - Ultra fast• Trolley buses incl. In motion charging• Fuel cell buses• Charging devices and mixed charging strategies
14:00 – 14:20	Managing the transition - preconditions for electrification Robin Kaenzig, consultant for Mr. Mateusz Figaszewski, E-Mobility Dev. & Market Intel. Director Solaris Bus <ul style="list-style-type: none">• Regulation and formalization of public transport• Optimization of routes and service• Business models and budget securing• Stakeholder support / Example from the Philippines
14:20 – 14:40	Experience from deploying E-buses in Europe TBC Mr. Mateusz Figaszewski, E-Mobility Dev. & Market Intel. Director, Solaris Bus
14:40 – 15:00	Composite EV bus structure Asst.Prof.Dr. Kitchanon Ruangjirakit, KMUTT
15:00 – 15:20	Coffee Break
15:20 – 15:40	Local EV Bus Project TBC Energy Absolute. EA OTP project BMTA/Movmi
15:40 – 16:00	Deploying E-Bus Fleets - Experience from Shenzhen Hallie Liao, Head of International Development, Shenzhen Bus Group, <ul style="list-style-type: none">• About Shenzhen Bus Group• Electrification Experience• Going forward
16:00 – 17:00	Panel Discussion “How to speed up E-Bus Deployment in Thailand” Speakers are panelists Modulator Carolin Capone (GIZ)



**International Electric Vehicle
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EV Drive & Ride**

23 September 2020

Agenda

- 11:00 - 11:30** **Opening of EV Drive & Ride**
- 10:30 - 12:00** **VIP & Press**
- 12:00 - 17:00** **Public Drive & Ride (Pre-registration Required)**

24 - 26 September 2020

Agenda

- 10:00 - 17:00** **Public Drive & Ride (Pre-registration Required)**

EV Drive & Ride @ EV Asia 2020

On-line registration via <http://testdrive.ev.at.online>
#change2charge #change2ev

<p>BATTERY ELECTRIC VEHICLES (BEV)</p> <p>ZERO EMISSION</p>	<p>AUDI e-tron Drive & Ride</p>	<p>BMW i3s Drive & Ride</p>
<p>EGAT i-EV Drive & Ride</p>	<p>FOMM One Drive & Ride</p>	<p>HYUNDAI KONA electric Drive & Ride</p>
<p>JAGUAR I-PACE Drive & Ride</p>	<p>MG-ZS EV Drive & Ride</p>	<p>TAKANO TTE 500 Drive & Ride</p>

NISSAN Kick
Drive & Ride

VOLVO S60
Drive & Ride