



**International Electric Vehicle
Technology Conference and Exhibition**

**7th International Electric Vehicle Technology Conference and Exhibition
(iEVTech 2022)**

Future Mobility Aspiration through Bio-Circular-Green Economy within APEC

14 - 16 September 2022

QSNCC, Bangkok, Thailand

Organized by
Electric Vehicle Association of Thailand (EVAT)
Co-organized by
Informa Markets

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 Seventh International Electric Vehicle Technology Conference and Exhibition (iEVTech 2022). The event this year will be held on 14 - 16 September 2022, QSNCC, 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 2022 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 General Vice Chair | President of EVAT, Thailand |
| 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 |
|-------------------|----------------------------------|

Committee

| | |
|------------------------|--------------------|
| Amornrat Kaewpradap | KMUTT, Thailand |
| Kitchanon Ruangjirakit | KMUTT, Thailand |
| Nuwong Chollacoop | ENTEC, NSTDA/TESTA |
| Pimpa Limthongkul | ENTEC, NSTDA/TESTA |

Exhibition Committee

Chair

| | |
|---------------------------|----------------------------------|
| Chantakorn David Chamsilp | Vice President of EVAT, Thailand |
|---------------------------|----------------------------------|

Committee

| | |
|------------------------|----------|
| Tamonwan Cholpratin | Kistler |
| Wilunda Wattanadumrong | Deloitte |



International Electric Vehicle Technology Conference and Exhibition

Local Arrangement Committee

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|--------------------------|-----------------------------|
| 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 | ENTEC, NSTDA/ TESTA |
| Thepparat Klamrassamee | KMUTT, Thailand |

Conference Secretary

| | |
|----------------|--------------------------------|
| Uthane Supatti | Kasetsart University, Thailand |
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Conference Co-Secretary

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

Important Dates

Online Registration: Now - 7 September 2022

Registration

| Categories | Early-Bird Rate (THB) (30 August 2022) | | Normal Rate (THB) (After 30 August 2022) | |
|------------------------|---|------------|---|------------|
| | Member | Non-Member | Member | Non-Member |
| Full Registration | 1,500 | 3,500 | 3,500 | 5,000 |
| Day Pass -14 September | Free | 1,500 | 1,500 | 2,000 |
| Day Pass -15 September | 2,000 | 2,500 | 2,500 | 3,500 |

*The above prices are subject to 7 percent VAT.

REMARKS:

1. Full Registration Rate covers 14 - 15 September 2022 Conference including Networking Reception Night 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
 Tentative Program at a Glance**

| Time/Date | 14 September 2022 | 15 September 2022 | | | 16 September 2022 |
|---------------|--|---|--|--|-------------------|
| 08:30 - 09:00 | Registration | Registration | | | Registration |
| 09:00 - 12:00 | ASEAN Sustainable Energy Week 2022 Opening Ceremony | Future of Electric Mobility (In collaboration with GIZ & CharIN) (Parallel Session) Session Chair: Dr. Uthane Supatti | Role of EV toward Carbon Neutrality (in collaboration with TESTA & UNEP) (Parallel Session) Session Chair: Dr. Pimpa Limthongkul & Dr. Nuwong Chollacoop | | Exhibition |
| 12:00 - 13:30 | | | | | |
| 13:30 - 16:30 | iEVTech Opening Ceremony and Special Forum | EV knowledge sharing (Parallel Session) Session Chair: Tamonwan Cholpratin | Taiwan Mobility Session (Parallel Session) Session Chair: Dr. Kitchanon Ruangjirakit | Tutorial xEV Battery Testing (Performance & Environmental Testing and Safety & Abuse Testing) By TÜV SÜD (Thailand) | |



International Electric Vehicle Technology Conference and Exhibition

14 September 2022

Afternoon Session (12:30 – 16:30)

QSNCC, Bangkok, Thailand

Future Mobility Aspiration through Bio-Circular-Green Economy within APEC
Opening Ceremony

Agenda

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|---------------|--|
| 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 Topic: TBC Ms. Duangjai Asawachintachit, Secretary General of The Board of Investment of Thailand (BOI) |
| 14:15 – 14:45 | Supporting the electric car ecosystem in Bangkok Metropolitan Dr. Chadchart Sittipunt - Governor of Bangkok (TBC) |
| 14:45 – 16:15 | Future Mobility Aspiration through Bio-Circular-Green Economy within APEC Speaker 1 Mr. Hirofumi Oima Deputy Director Nuclear Accident Response Office Agency for Natural Resources and Energy Minister of Economy, Trade and Industry (METI), Japan Speaker 2 Speaker 3 Mr. Wattanapong Kurovat, Director General Energy Policy and Planning Office (EPPO), Ministry of Energy Thailand Mr. Warit Rattanachuen Assistant Governor – Project Management Office (PMO) Electricity Generating Authority of Thailand (EGAT) Moderator Dr. Wit Sitthivakin, Financial Journalist the Standard |
| 16:15-16:30 | Special keynote Topic: TBC By Representative from PTT Oil and Retail Business Public Company Limited |
| 16:30-17:00 | Special keynote “EV Market Outlook 2022” by Mr. Allen Tom Abraham Lead Transport Analyst, India, Southeast Asia and Australia, Bloomberg New Energy Finance |
| 17:00 | Closing Session by Dr. Pongpan Kaewtatip, Vice President, EVAT |



International Electric Vehicle Technology Conference and Exhibition

15 September 2022

Morning Session (09:00 – 12:00)

The Future of Electric Mobility in Bangkok Metropolitan (In collaboration with GIZ & CharIN)

Agenda

(Session Chair: Dr. Uthane Supatti, MC: Mr. Pan Piyasil)

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|----------------------|--|
| 09:00 – 09:30 | Registration |
| 09:30 – 09:40 | Welcoming speech Mr. Krisda Utamote, President of Electric Vehicle Association of Thailand Dr. Dominika Kalinowska, Director Transport Projects Thailand / ASEAN, GIZ |
| 09:40 – 10:00 | Vision for Electric Car Ecosystem in Bangkok Metropolitan Speaker: Assoc. Prof. Dr. Wisanu Subsompon, Bangkok Metropolitan Deputy Governor (TBC) Talking points <ul style="list-style-type: none">• Ideas and concepts of Bangkok Governor's policy on "Supporting the Electric Car"• Case examples of electric and shared mobility from Chulalongkorn University (or else) that could be interesting to pilot and scale up in district/city level• What do Bangkokians get? |
| 10:00 – 10:20 | Shaping the Future of Mobility on city level – international best-practices Speaker: Christian Hochfeld, Agora Verkehrswende Talking points <ul style="list-style-type: none">• The importance of integrated planning for e-mobility transformation in urban areas and role of local government• Case examples of public-private partnership to foster new business models on district/city level, i.e., sharing and connected mobility, autonomous vehicle, and public transport electrification• What could be the key role of local government in urban EV development? |
| 10:20 – 10:40 | Sustainable transition toward e-mobility in Bangkok Speaker: MEA representative (TBC) Talking points <ul style="list-style-type: none">• MEA's plan on SMART City and e-mobility in Bangkok• Current and upcoming MEA's activities on e-mobility, i.e., E-Bus, MEA EV Application, EV Smart Charging Station, EV Home Charger Installation Package, etc.• How would the development of e-mobility in Bangkok affect MEA's grid management and benefit Bangkokians? |
| 10:40 – 11:00 | Charging infrastructure requirements and design for urban applications Speaker: Mr. Jacques Borremans, Managing Director Asia, CharIN Talking points <ul style="list-style-type: none">• Case examples of technical options and designs for public and residential charging infrastructure in the urban context• Bidirectional charging and smart design for energy management in household, district, and city level• What are the international experiences on e-mobility and charging infrastructure that could be applicable to Bangkok? |
| 11:00 – 11:15 | Coffee Break |



International Electric Vehicle Technology Conference and Exhibition

11:15 – 12:30

Panel Discussion on Shaping the Future of Mobility for Bangkok Metropolitan

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|------------|---|
| Panelist 1 | Assoc. Prof. Dr. Wisanu Subsompon, Bangkok Metropolitan Deputy Governor |
| Panelist 2 | Christian Hochfeld, Agora Verkehrswende |
| Panelist 3 | MEA representative |
| Panelist 4 | Mr. Jacques Borremans, Managing Director Asia, CharIN |
| Moderator | Mr. Pan Piyasil, Technical Advisor, GIZ |

Discussion points

- With these international experiences, what could be interesting to apply to Bangkok Metropolitan?
- How could private companies, investors, and financial institutes play roles in the future of e-mobility in Bangkok?
- How human resource development play a role in Bangkok's e-mobility development?

Note: there could be more guiding questions derived from the presentation contents, panelists, and the audiences



International Electric Vehicle Technology Conference and Exhibition

15 September 2022

Morning Session (09:00 – 12:00)

Virtual Platform

Role of EV toward Carbon Neutrality
(In collaboration with TESTA & UNEP)

Agenda

(Session Chair: Dr. Pimpa Limthongkul, MC: Dr. Nuwong Chollacoop)

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|---------------|--|
| 09:00 – 09:30 | Registration |
| 09:30 – 09:35 | Welcoming speech Executive Committee from Thailand Energy Storage Technology Association (TESTA) |
| 09:35 – 10:00 | Keynote: UNEP Global Electric Mobility Programme (Recording) Mr. Yeonju Jeong, Associate Programme Management Officer, United Nations Environment Programme (UNEP) |
| 10:00 – 10:05 | Group photo |
| 10:05 – 10:40 | Update on Electric Two-and Three-Wheelers Progress in the Philippines Mr. Edmund Araga, President, Asian Federation of Electric Vehicles Association (AFEVA) |
| 10:40 – 11:00 | Break |
| 11:00 – 11:20 | Update on National Battery Swapping Initiative for Electric Motorcycle Dr. Pimpa Limthongkul, National Energy Technology Center (ENTEC) |
| 11:20 – 11:40 | Mainstreaming Electric Mobility Two and Three-Wheelers in Thailand Dr. Peerawat Saisirirat, National Energy Technology Center (ENTEC) |
| 11:40 – 12:00 | Q&A |



International Electric Vehicle Technology Conference and Exhibition

15 September 2022

Afternoon Session (13:00 – 16:30)

Virtual Platform

EV knowledge sharing

Agenda

(Session Chair: Tamonwan Cholpratin)

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|---------------|---|
| 13:00 – 13:30 | Registration |
| 13:30 – 13:35 | Welcoming Speech xxx |
| 13:35 – 14:05 | Topic: TBC PTT Oil and Retail Business Public Company Limited |
| 14:05 – 14:35 | Topic: TBC Oriental Copper Co., Ltd |
| 14:35 – 14:55 | Coffee Break |
| 14:55 – 15:25 | Topic: TBC BMW (Thailand) Co., Ltd. |
| 15:25 – 15:55 | Topic: TBC TRUMPF Ltd. (TBC) |
| 15:55 – 16:25 | Topic: TBC TBC |
| 16.25 | Closing Session |



International Electric Vehicle Technology Conference and Exhibition

15 September 2022

Afternoon Session (13:00 – 16:30)

Virtual Platform

Taiwan Mobility Session
(Parallel Session)

Agenda

(Session Chair: Dr. Kitchanon Ruangjirakit & Dr. Jet P.H. Shu)

12:00 – 13:00 Registration

13:00 – 13:05 Welcoming Speech

Mr.Krisda Utamote, President of Electric Vehicle Association of Thailand (EVAT)

13:05 – 13:15 Opening Remarks

Dr. Jet P.H. Shu, Advisor, mTARC

PART 1: The Development Status of Electric Vehicle and Autonomous Vehicle Technology

13:15 – 13:35 Current EV Status in Thailand

Mr.Krisda Utamote, President of Electric Vehicle Association of Thailand (EVAT)

13:35 – 13:55 Connected & Autonomous Vehicles Technology Development in Taiwan

Dr.Hsia-Hsin Li , Division Director, ICL, ITRI

13:55 – 14:10 Introduction of MIH Open Platform

Jeffrey Chen, General Manager of Business Division, Foxtron Vehicle Technologies

14:10 – 14:25 High efficiency synchronous permanent magnet motor for EV buses

Mr.Chia-Ching Lin, R&D Manager of Cheng Chang Machine Electronic

14:25 – 14:40 Introduction of EV/HEV On-board Chargers and DC/DC Converters and EV Charging Solutions

Mr.Kittisak Ngoengngokngam, Regional Business Director, Delta Electronics Thailand

14:40 – 14:55 Power Pouch Lithium-Ion Batteries in Today's EV and ESS

Dr. Bruce Ko, Deputy CTO of Amita Technologies

14:55 – 15:15 Digital break

PART 2: Current Status of Development of Automotive Electronics and Fleet Management

15:15 – 15:30 Intelligent Parking natural step on the path to autonomous vehicles

Mr.Jack Yang, Manager, Thai Whetron Electronics Co., Ltd.

15:30 – 15:45 Advantech AloV solution to enables Intelligent Commercial Vehicles

Mr. Meng Lue, Product Sales Manager, Advantech Co., Ltd.

15:45 – 16:00 Automotive radars: The device keeps road user safe

Dr. Dennis Tsai, CTO, Cubtek Inc.

16:00 – 16:15 GPS Tracker for Electric Vehicles: an example of Taiwan's E-scooter sharing solution,

Ms. Phunthip Prairuangkit, Project Manager, Touch-EUP Co., Ltd.

16:15 – 16:30 Q&A and Closing Remarks