



International Electric Vehicle  
Technology Conference and Exhibition

**7<sup>th</sup> 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 - Thailand**

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

Founding President of World Electric  
Vehicles Association

Yoichi Hori

Tokyo University of Science, Japan

Yossapong Laoonual

Honorary Chairman of EVAT, Thailand

#### Advisor

Pisit Rangaritwutikul

President of Thailand Automotive Institute  
and Advisors of EVAT, Thailand

#### General Chair

Krisda Utamote

President of EVAT, Thailand

#### General Vice Chair

Pongpan Kaewtatip

Vice President of EVAT, Thailand

Suroj Sangsnit

Vice President of EVAT, Thailand

Uthane Supatti

Vice President of EVAT, Thailand

Jaturong Suriyasasin

Vice President of EVAT, Thailand

#### Technical Program Committee

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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

Uthane Supatti

Kasetsart University, Thailand

#### Exhibition Committee

##### Chair

Chantakorn David

GridWhiz

Gridwitchayayarkarn

##### Committee

Tamonwan Cholpratin

Kistler



**International Electric Vehicle  
Technology Conference and Exhibition**

**Local Arrangement Committee**

|                          |                                 |
|--------------------------|---------------------------------|
| Atthawit Techawiboonwong | Changan Automobile Thailand     |
| Warakorn Katikawong      | Thai Electric Vehicle           |
| Pimuk Pengpit            | AXA Partners Thailand           |
| Thepparat Klamrassamee   | KMUTT, Thailand                 |
| Siamnat Panassorn        | Tri Petch Isuzu Sales Co., Ltd. |
| Chana Yiangkamolsing     | Innova-Pack Co., Ltd.           |
| Wilunda Wattanadumrong   | ETRAN Thailand                  |
| Viroj Patcharawattanakul | AAPICO                          |
| Thana Vivathirun         | ABeam Consulting Thailand       |
| Thanyalak Kormanee       | EVAT, Thailand                  |

**Conference Secretary**

|                        |                |
|------------------------|----------------|
| Montira Watcharasukarn | AFRY, Thailand |
|------------------------|----------------|

**Conference Co-Secretary**

|                     |               |
|---------------------|---------------|
| Montana Rungsiyopas | BUU, Thailand |
|---------------------|---------------|



## International Electric Vehicle Technology Conference and Exhibition

### Important Dates

Online Registration: Now - 7 September 2022

### Registration

| Categories             | Early-Bird Rate (THB)<br>(31 August 2022) |            | Normal Rate (THB)<br>(After 31 August 2022) |            |
|------------------------|---|------------|---|------------|
|                        | Member                                    | Non-Member | Member                                      | Non-Member |
| Full Registration      | 2,000                                     | 3,500      | 3,500                                       | 5,000      |
| Day Pass -14 September | Free                                      | 1,500      | 1,500                                       | 2,000      |
| Day Pass -15 September | 1,500                                     | 2,500      | 2,500                                       | 3,500      |

\*Registration fees are included VAT 7%.

### REMARKS:

1. Full Registration Rate covers 14 - 15 September 2022 Conference including Networking Reception.
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](http://www.evat.or.th)

### Contact:

Dr. Montira Watcharasukarn  
Conference Secretary  
Email: [iEVTech@evat.or.th](mailto:iEVTech@evat.or.th)  
Tel: +66 (0) 86-390-3339



**International Electric Vehicle  
Technology Conference and Exhibition  
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<br>Opening Ceremony | Exhibition<br>(10:00-18:00) | Future of Electric Mobility<br>(In collaboration with GIZ & CharIN)<br>(Parallel Session)<br><br>Session Chair:<br>Dr. Uthane Supatti<br><br>Room 209A | Role of EV toward Carbon Neutrality<br>(in collaboration with TESTA & UNEP)<br>(Parallel Session)<br><br>Session Chair:<br>Dr. Pimpa Limthongkul &<br>Dr. Nuwong Chollacoop<br><br>Room 209B | Exhibition<br>(10:00-18:00) | Exhibition<br>(10:00-18:00) |  |
| 12:00 - 13:30 |  |                             |  |  |                             |                             |  |
| 13:30 - 16:30 | iEVTech Opening Ceremony and Special Forum             |                             | EV knowledge sharing<br>(Parallel Session)<br><br>Session Chair:<br>Tamonwan Cholpratin<br><br>Room 209A   | Taiwan Mobility Session<br>(Parallel Session)<br><br>Session Chair:<br>Dr. Kitchanon Ruangjirakit<br><br>Room 209B   |                             |                             |  |
| 18:00 - 20:00 | Welcome Dinner<br><br>Hosted by Informa Markets        |                             | Banquet<br><br>Hosted by EVAT  |  |                             |                             |  |



# International Electric Vehicle Technology Conference and Exhibition

14 September 2022

Afternoon Session (12:30 – 17:00)

Exhibition Hall, Conference Theater A, QSNCC, Bangkok, Thailand

**Future Mobility Aspiration through Bio-Circular-Green Economy within APEC**  
*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, Country General Manager - Thailand, Informa Markets - Thailand
- 13:50 - 14:15**                      **Opening Remark and Special keynote “Thailand’s Investment Opportunities for Electric Vehicles towards the Bio-Circular-Green Economy”**  
Mr. Narit Therdsteeerasukdi, Deputy Secretary General of The Board of Investment of Thailand
- 14:15 - 14:25**                      **Opening Ceremony and Photo session**
- 14:25 - 16:15**                      **Future Mobility Aspiration through Bio-Circular-Green Economy within APEC**
- Chargé d’Affaires’ Gwendolyn Cardno  
US Embassy
- Mr. Wattanapong Kurovat,  
Director General  
Energy Policy and Planning Office (EPPPO)
- Mr. Hirofumi Oima  
Director for Automotive International Trade Policy Automobile Division, Manufacturing Industries Bureau, Ministry of Economy, Trade and Industry (METI), Japan
- Mr. Warit Rattanachuen  
Assistant Governor – Project Management Office (PMO)  
Electricity Generating Authority of Thailand (EGAT)
- Dr. Hsiang-Wei Ho  
Section Chief  
Department of Industrial Technology, Ministry of Economic Affairs, Taiwan
- Moderator**  
Dr. Wit Sitthivakin, Financial Journalist the Standard
- 16:15-16:40**                      **Special keynote “EV Market Outlook 2022”**  
by Mr. Allen Tom Abraham  
Lead Transport Analyst, India, Southeast Asia and Australia, Bloomberg New Energy Finance
- 16:40**                                      **Closing Session** by Dr. Pongpan Kaewtatip, Vice President, EVAT



# International Electric Vehicle Technology Conference and Exhibition

15 September 2022

Morning Session (09:00 - 12:30)

Room 209A, QSNCC, Bangkok, Thailand.

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

## Agenda

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

- |                      |   |
|----------------------|---|
| <b>09:00 – 09:30</b> | <b>Registration</b>   |
| <b>09:30 – 09:40</b> | <b>Welcoming speech</b><br>Mr. Krisda Utamote, President of Electric Vehicle Association of Thailand<br>Dr. Dominika Kalinowska, Director Transport Projects Thailand / ASEAN, GIZ  |
| <b>09:40 – 10:00</b> | <b>Vision for Electric Car Ecosystem in Bangkok Metropolitan</b><br>Speaker: Assoc. Prof. Dr. Wisanu Subsompon, Bangkok Metropolitan Deputy Governor <b>(TBC)</b><br><b>Talking points</b> <ul style="list-style-type: none"><li>• Ideas and concepts of Bangkok Governor’s policy on “Supporting the Electric Car</li><li>• 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</li><li>• What do Bangkokians gets?</li></ul>   |
| <b>10:00 – 10:20</b> | <b>Shaping the Future of Mobility on city level – international best-practices</b><br>Speaker: Christian Hochfeld, Agora Verkehrswende<br><b>Talking points</b> <ul style="list-style-type: none"><li>• The importance of integrated planning for e-mobility transformation in urban areas and role of local government</li><li>• 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</li><li>• What could be the key role of local government in urban EV development?</li></ul>  |
| <b>10:20 – 10:40</b> | <b>Sustainable transition toward e-mobility in Bangkok</b><br>Speaker: Tanit Menaneatra, Metropolitan Electricity Authority, MEA<br><b>Talking points</b> <ul style="list-style-type: none"><li>• MEA’s plan on SMART City and e-mobility in Bangkok</li><li>• 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.</li><li>• How would the development of e-mobility in Bangkok affect MEA’s grid management and benefit Bangkokians?</li></ul>   |
| <b>10:40 – 11:00</b> | <b>Charging infrastructure requirements and design for urban applications</b><br>Speaker: Mr. Jacques Borremans, Managing Director Asia, CharIN<br><b>Talking points</b> <ul style="list-style-type: none"><li>• Infrastructure / Battery size for busses depending on length of route, topography, etc.... &amp; also introduce the MegaWatt Charging System specifically designed for fast charging of Busses &amp; trucks.</li><li>• Case examples of technical options and designs for public and residential charging infrastructure in the urban context</li><li>• Bidirectional charging and smart design for energy management in household, district, and city level</li><li>• What are the international experiences on e-mobility and charging infrastructure that could be applicable to Bangkok?</li></ul> |
| <b>11:00 – 11:15</b> | <b>Coffee Break</b>   |



## International Electric Vehicle Technology Conference and Exhibition

11:15 – 12:30

### **Panel Discussion on Shaping the Future of Mobility for Bangkok Metropolitan**

|            |   |
|------------|---|
| Panelist 1 | Assoc. Prof. Dr. Wisanu Subsompon, Bangkok Metropolitan Deputy Governor |
| Panelist 2 | Christian Hochfeld, Agora Verkehrswende                                 |
| Panelist 3 | Tanit Menaneatra, Metropolitan Electricity Authority, MEA               |
| 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)**

**Room 209B, QSNCC, Bangkok, Thailand.**

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

## Agenda

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

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



# International Electric Vehicle Technology Conference and Exhibition

15 September 2022

Afternoon Session (13:00 – 16:30)

Room 209A, QSNCC, Bangkok, Thailand.

**EV knowledge sharing: EV technologies for sustainable transport**  
*(Parallel Session)*

## Agenda

(Session Chair: Tamonwan Cholpratin, MC: Ms. Veenarat Laohapakakul, Newscaster of one31 Channel)

|               |   |
|---------------|---|
| 13:00 – 13:30 | <b>Registration</b>   |
| 13:30 – 13:35 | <b>Welcoming Speech</b><br>Mr. Suroj Sangsnit, Vice President for Industry of Electric Vehicle Association of Thailand (EVAT)   |
| 13:35 – 14:05 | <b>Topic: Plug- in Happiness, Fullfill All Journey</b><br>Mr. Panupan Subjarassang, Vice President, Physical Platform Engineering and Maintenance                                       |
| 14:05 – 14:35 | <b>Topic: E-mobility and the trend in application of copper conductors</b><br>Mr. Arthit Prathumpuang, Vice President (Business Development and Marketing)<br>Oriental Copper Co., Ltd. |
| 14:35 – 14:55 | <b>Coffee break</b>   |
| 14:55 – 15:25 | <b>Topic: BMW's Vision towards Carbon Neutrality</b><br>Mr. Opas Noppornpitak, Manager Corporate Communications<br>BMW Manufacturing (Thailand) Co., Ltd.                               |
| 15:25 – 15:55 | <b>Topic: Batteries made by Laser</b><br>Mr. Markus Lindemann, Regional Director Laser Division, Sales & Technology<br>TRUMPF Ltd.  |
| 15:55 – 16:15 | <b>Q&amp;A</b>  |



# International Electric Vehicle Technology Conference and Exhibition

15 September 2022

Afternoon Session (13:00 – 16:30)

Room 209B, QSNCC, Bangkok, Thailand.

**Taiwan Mobility Session**  
*(Parallel Session)*

## Agenda

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

- |               |   |
|---------------|---|
| 13:00 – 13:30 | <b>Registration</b>   |
| 13:30 – 13:45 | <b>Welcoming Speech and Update on Current EV Status in Thailand</b><br>Mr. Krisda Utamote, President of Electric Vehicle Association of Thailand (EVAT)                           |
| 13:45 – 14:00 | <b>Opening Remarks and Update on Current EV and Autonomous Vehicles Status in Taiwan</b><br>Dr. Jet P.H. Shu, Advisor of Mobility Taiwan Auto Research Consortium (mTARC)         |
| 14:00 – 14:20 | <b>Introduction of Autonomous and Electric Vehicles Development Capacity Built in Taiwan</b><br>Mr. Vector Yeh, R&D Manager, Automotive Research & Testing Center (ARTC)          |
| 14:20 – 14:40 | <b>Electrification and Automation of Public Transportation</b><br>Miss Jenny Lai, Sales Account Manager of Tron Energy Technology Co., Ltd.                                       |
| 14:40 – 15:00 | <b>The Practice Sharing on Thailand Lithium-ion Batteries Manufacturing and Development in Asia Market</b><br>Miss Daphne Wong, Director of Amita Technologies, Inc.              |
| 15:00 – 15:15 | <b>Coffee Break</b>   |
| 15:15 – 15:35 | <b>Sandbox of Autonomous Vehicle Trials in Taiwan</b><br>Mr. James Lei, Director of Autonomous Vehicles Technology Innovative Experimentation Program Office (AVTEP), DoIT, MOEA. |
| 15:35 – 15:55 | <b>Autonomous Driving Incentive Technology for Future Development</b><br>Dr. Kelvin Chen, Deputy Division Director of MMSL, Industrial Technology Research Institute.             |
| 15:55 – 16:15 | <b>Driver Assistance System Solutions: Parking (Surrounding) &amp; Driving (Front)</b><br>Mr. James Chao, Sales & Marketing Manager, Thai Whetron Electronics Co., Ltd.           |
| 16:15 – 16:30 | <b>Q&amp;A and Closing Remarks</b>  |