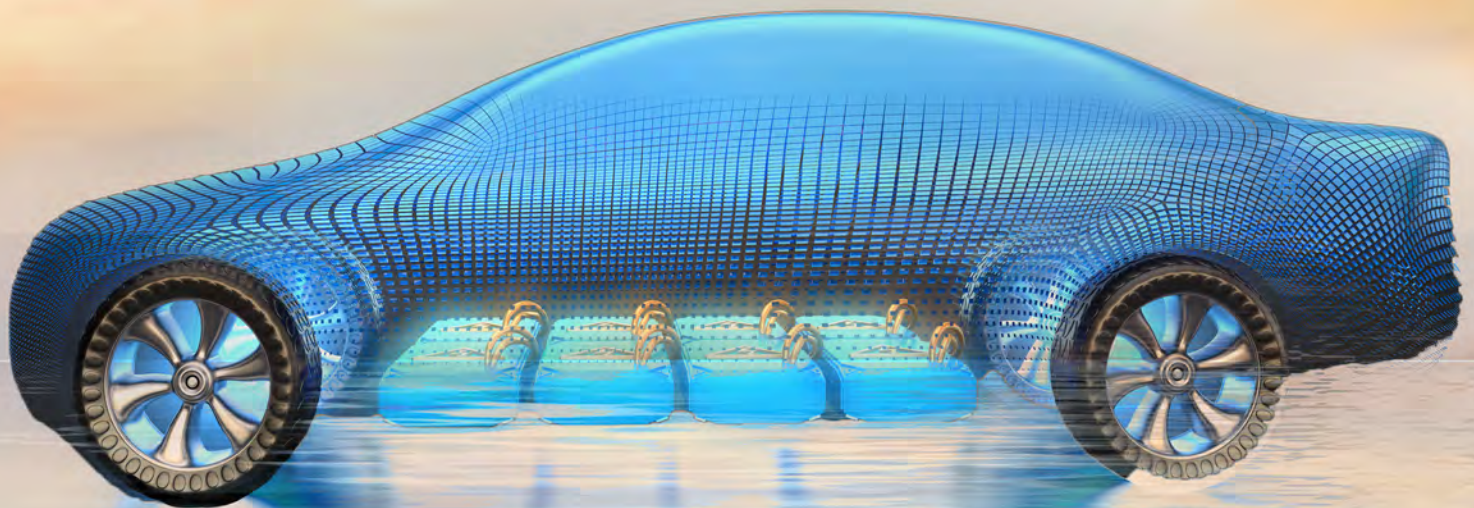




**5th International Electric Vehicle
Technology Conference and Exhibition
(iEVTech 2020)**

Scaling-up Electric Mobility & Beyond

**23 – 26 September 2020
Bangkok International Trade & Exhibition Centre (BITEC),
Bangkok, Thailand**



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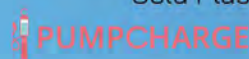
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Mr. Krisda Utamote

President of EVAT

highly important knowledge base for everyone in the industry and in educational institutions, to exchange our know-hows and viewpoints for on-going development in the new era of automotive technology.

On behalf of the Electric Vehicle Association of Thailand (EVAT), it is our honor to co-organize the 5th International Electric Vehicle Technology Conference and Exhibition (iEVTech 2020) with Informa Markets Co.,Ltd. under the theme "Scaling-up Electric Mobility & Beyond" during 23-26 September 2020. At the same time, I would like to take this opportunity to thank you all participants at the iEVTech 2020. I'm confidence that your participation and information exchange will contribute to the development of electrified transport technology towards the smart and sustainable transport in ASEAN and the world.

Welcome Message

Welcome Message from President of Electric Vehicle Association of Thailand (EVAT)

All of us are well aware that Thailand's capital city has experienced some of the worst-ever air pollution levels for many years, caused by ultra-fine dust particles known as PM 2.5. The three major sources of air pollution are vehicle emissions in cities, biomass burning in rural areas, and industrial discharges in concentrated industrialized zones. For the past many years, the government agencies have developed standards in order to reduce air pollution. One of the standards is to focus on shifting to lower-emissions vehicle engines and improving public transportation in general. A number of proposals have been made for long-term solutions, including promotion of policies to support the development of clean energy vehicles, namely electric vehicles, as a future technology to replace the internal combustion engine.

To drive the country's electrification plan, the Thai government has declared electric vehicles as an official industry development for the future, targeting 1.2 million electric vehicles and 690 charging stations by 2036. With these targets, the Electric Vehicle Association of Thailand (EVAT), aims to support the government's plan to stimulate the growth of the electric vehicle market in Thailand thus proposing our initiatives, covering eight main actions that we wish to see the government include as part of the national policy, such as tax credits for electric vehicle buyers, special license plate for zero emission vehicles, conversions of old Tuk Tuk to electric Tuk Tuk and many more.

However, it's not only up to the government to drive the electrification. EVAT also believe that we are all responsible in preventing air pollutions through several ways. Using electric vehicles is one of the several solutions since electric vehicles typically produce fewer life cycle emissions than conventional vehicles. In addition, EVAT also see the importance of human resources development to support the shift towards the electric vehicle industry and to raise awareness on electric vehicles. All of which are the fundamental platform for further development of electric vehicles in Thailand thus knowledge sharing seminars and EV focused sessions for public interests are seen as

Welcome Message

Welcome Message from Chairman of Informa Markets Thailand

Global sales will rise 6% this year to 2.3 million vehicles before exploding to 45 million by 2030 according to the International Energy Agency forecasts. Thailand has identified electric vehicles (EVs) as the next growth area for the Thai automotive industry. The Kingdom also has excellent potential to succeed in developing an electric vehicle (EV) industry which will in fact be one of the country's new growth sectors. This is principally because of its good position in the international automotive market. Even before the COVID19 struck, Thailand's parts makers were starting to shift gears as the global car industry moves toward EVs.

The government and Ministry of Industry already have Electric Vehicle (EV) industry supporting policies to promote domestic EV and parts production. The government appointed a National EV Policy Committee and integrated collaboration among related agencies boosting domestic markets, promoting investment, setting EV standards, used battery management, supporting charging station and infrastructure.

The investment and the growing EV market is helping to open up business opportunities for other industries in the energy sector, including power plants, EV charging stations, and battery enhancement operations. The International Electric Vehicle Technology Conference or IEVTech is co-organised by Informa Markets and the Electric Vehicle Association of Thailand (EVAT) which is being held in conjunction with ASEAN SUSTAINABLE ENERGY WEEK (ASE) 2020, and ELECTRIC VEHICLES ASIA 2020. This is the largest and most comprehensive event in the region on renewable energy, energy efficiency, environmental and electric vehicle technology.



Mr. Manu Leopaiprote
Chairman
Informa Markets Thailand

IEVTech is being held at the right time. EV industry and related industries are recovering from the affect from COVID-19 pandemic. In the conference, there will be panel discussions, knowledge sharing and presentations by some of the industry leaders and specialists. This will provide participants the knowledge enhancement on EV trends; technology development; key challenges and solutions for the industry to make a full recovery.

On behalf of UBM Asia (Thailand) Co., Ltd., I would like to thank the Electric Vehicle Association of Thailand (EVAT) for their partnership in organizing this conference for the electronic vehicle industry and helping to drive forward the industry well into the future. Lastly, I would like to extend our deep appreciation to Speakers, Delegations and Participants for their participation in the conference. Thank you.



Mr. Thongchai Chawalitpichaet
Director General
The Office of Industrial Economics

Opening Remark

Welcome from Director General of The Office of Industrial Economics

On behalf of the Office of Industrial Economics, It is my pleasure to welcome everyone to (iEVTech 2020 :Scaling-Up Electric Mobility & Beyond)

For the past four years, Electric Vehicle Association of Thailand (EVAT) in collaboration with Informa Markets (Thailand) had provided an international platform to share and gather leading experts, researchers as well as our sponsors and exhibitors from around the world to contribute in the development of electrified transport technology towards the smart and sustainable transport.

This is one of the important event of automotive sector for this year. Moreover, it not the only annual International Conference in Thailand but also focuses on the electric vehicle and its related advance technologies.

The future of the automotive industry is clearly gearing towards the trend of ACES, which stands for Autonomous, Connected, Electrification and Shared. This brings a major paradigm shift of the automotive industry. In many countries around the globe, the proportion of people who aspire to own a vehicle has significantly decreased. The younger generation is less enthusiastic to possess a drivers' license, for the role of a driver's license as a 'license to socialize' has been replaced by smart phones, social networks, and virtual society. At the same time, the growing interest in the electrification of the vehicle, the technological advancement in long-range battery and fast charging system are playing a crucial role in the transformation of majority of vehicles. I believe that all of us in the automotive industry find these major shifts very challenging and must accurately analyze the fast-changing trends, and timely and effectively adjust our industries. Thailand is nowadays well known internationally as the global production base of 3 types of product champion which are the one-ton pickup truck, the high quality motorcycle (both large and small size),

and the ECO car which is “Clean, Efficient and Safe” passenger car. In addition to these 3 product champions, we have very strong auto-part suppliers. The auto-parts from Thailand can be exported to countries which are known to have the most stringent standard requirements, such as Japan, Germany and the US.

To transform to production base of Electrical Vehicles (EVs), the Ministry of Industry is working closely with the Thailand's Board of Investment, the Ministry of Science and Technology and the Ministry of Energy on the plans to promote Thailand as a major center for the motor-driven vehicles, mainly electric vehicles. This comes together with the production base of core technology parts, such as battery, traction motor and battery management system. Accordingly, Thailand not only breaks into higher value added economy, but also becomes a leader in reshaping the world with clean, green and sustainable development.

Also, in collaboration with Ministry of Finance, to launch a car exchange policy to promote the purchasing EV cars and hope to prevent the PM 2.5 situation.

Finally, on the behalf of Ministry of Industry, I would like to thank Electric Vehicle Association of Thailand and Informa Markets (Thailand) for organizing these important conferences and also thank exhibitors, speaker's delegations and participants for their strong support and active participation to the sustainable development of Thailand's EV Industry. Furthermore, I wish you a most fruitful day with interesting and stimulating discussion and exchange of knowledge so that we can, together, envisage the future of smart and sustainable transport.



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BMW Group Thailand
KMUTT, Thailand
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Thai Electric Vehicle
Honda AP
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NSTDA, TESTA
KMUTT, Thailand

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Uthane Supatti

Kasetsart University, Thailand

Conference Co-Secretary

Montira Watcharasukarn

AFRY, Thailand



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	Honoring Nobel Prize in Chemistry 2019 and TESTA MOU Signing Ceremony Session Chair : Dr. Pimpa Limthongkul (Room SILK 3-4)	Electric Two and Three Wheelers Standard in ASEAN Hosted by UNEP and MTEC (Parallel Session) Session Chair : Dr. Nuwong Chollacoop (Room SILK 4) Charging Infrastructure System Hosted by CharIN (Parallel Session) Session Chair : Dr. Uthane Supatti (Room SILK 3)	
12:00-13:00				Exhibition (10:00-18:00) EV Drive and Ride (11:00-17:00)
13:00-17:00	iEVTech Opening Ceremony and E-Mobility CEO Forum (Room SILK 3-4)	EV Knowledge Sharing Session Chair : Tamonwan Cholpratin (Room SILK 4) Taiwan Mobility Session (Parallel Session) Session Chair : Dr. Kitchanon Ruangjirakit (Room SILK 3)	EV Knowledge Sharing Session Chair : Tamonwan Cholpratin (Room SILK 4)	Exhibition (10:00-18:00) EV Drive and Ride (11:00-17:00)
18:00-20:00		Banquet Hosted by EVAT		

Conference Program

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”

Mr. Thongchai Chawalitpichaet, Director General, The Office of Industrial Economics

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, President

MG Sales Thailand

Mr. Zhang Haibo, President

Nissan Motor Thailand

Mr. Ramesh Narasimhan, President

Panus Assembly Co. Ltd

Mr. Panus Watanachai, Chief Executive Officer

Skywell Thailand

Dr. Phasin 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

Dr. Pongpan Kaewtatip, Vice President, EVAT



Conference Program

24 September 2020

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 Dr. Narong Sirilertworakul (President of National Science and Technology Development Agency, Minister of Higher Education, Science, Research and Innovation)
09:10 – 09:15	Opening Remark Mr. Kittikorn Lohsoonthorn, Chairman of the Committee on Energy The House of Representative of the Kingdom of Thailand
09:15 – 09:20	Photo Session
09:20 – 10:00	Plenary Speaker: Honoring Nobel Prize in Chemistry 2019 (VDO Call in) Dr. M. Stanley Whittingham (Nobel Laureate in Chemistry 2019, Binghamton University, USA)
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 – 10:45	Coffee break
10:45 – 11:05	Battery ESS powering the future of Thailand industry by GPSC Ms. Rosaya Teinwan (Executive Vice President – Business Development, Global Power Synergy Public Co., Ltd)
11:05 – 11:35	Keynote Speaker: Energy Storage Industry Pathway Mr. Thomas Leonard , Country Manager, Thailand & Indonesia, Energy & Renewables, DNVGL
11:35 – 11:55	Energy Storage Development Progress by Banpu NEXT Mr. 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) Mr. Ratapon Viriyaphant, Director, Thonburi Energy Storage Manufacturing

Conference Program

24 September 2020

Afternoon Session (13:00 – 20:00)

Room SILK 4, BITEC, Bangkok

iEVTech 2020

EV Knowledge Sharing Session

Agenda

(Session Chair: Tamonwan Cholpratin)

- | | |
|----------------------|--|
| 13:00 – 13:30 | Registration |
| 13:30 – 14:00 | Keynote Speaker: BMW 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: Nissan's e-Power: the Bridging Technology Towards Full Electrified Vehicle
Dr. Atthawit Techawiboonwong, General Manager, External and Government Affairs Dept., Nissan Motor (Thailand) Co.,Ltd. |
| 15:15 – 15:45 | Keynote Speaker: MG EV Technology
Mr. Pongsak Lertrudeewattanavong, Vice President of MG Sales (Thailand) Company Limited. |
| 15:45 – 16:15 | Keynote Speaker: Localization of Electric Vehicle Chargers and the sophisticated "PumpCharge" Management Platform
Mr. Theerasak Phetchot, Regional Manager, GridWhiz (Thailand) Co., Ltd. |
| 16:15 – 20:00 | Dinner Banquet hosted by Electric Vehicle Association of Thailand (EVAT)
Fahrenheit Restaurant, BITEC |



Conference Program

24 September 2020

Afternoon Session (13:30 – 20:00)

Room SILK 3, BITEC, Bangkok

iEVTech 2020

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 – 14:00 | Policy Making for Autonomous Vehicles: Taiwan Sandbox Experiment Project and Benchmark
Representative from The Office of Unmanned Vehicle Technology Experiment Program (UVTEP), Department of Industrial Technology, Ministry of Economic Affairs |
| 14:00 – 14:50 | The Development of Autonomous Driving from Academia's Perspective: Embedded AI Sensing Technology for ADAS/Self-driving applications
Dr.Jiun-In Guo, Associate Dean, College of Electrical and Computer Engineering, National Chiao Tung University (NCTU) |
| 14:50 – 15:10 | The Development of Autonomous Driving from Private Sector's Perspective: Key Technologies and Applications of AI Vision Sensing for Autonomous Vehicles
Mr. L.T. Chen, President , TRONC-E Corp. |
| 15:10 – 16:40 | Taiwan's Sandbox Program: Experimental Projects Embedded with Regional Characteristics

The Participation of Private Sector: The Implementation in Taoyuan Airport and New Taipei City
By Mr.San Huang, General Manager, Kingwaytech

The Realization of Autonomous Driving in Research Institute: Winbus for Tourism in Changhua City
By Mr.Weber Lee, Director, Automotive Research Testing Center (ARTC) |
| 16:40 – 16:55 | Conclusion
Dr.Jet P.H. Shu, Advisor, Department of Industrial Technology, Ministry of Economic Affairs |
| 16:55 – 17:00 | Closing Remarks |
| 17:30 – 20:00 | Dinner Banquet hosted by Electric Vehicle Association of Thailand (EVAT)
Fahrenheit Restaurant, BITEC |

Conference Program

25 September 2020

Morning Session (08:30 – 12:00)

Room SILK 4, BITEC, Bangkok

iEVTech 2020

Electric Two and Three Wheelers Standard in ASEAN

Co-Hosted by UNEP and MTEC

(Parallel Session)

Agenda

(Session Chair: Dr. Nuwong Chollacoop)

- | | |
|----------------------|---|
| 08:30 – 09:00 | Registration |
| 09:00 – 09:15 | Welcoming speech
Mr. Bert Fabian, UNEP |
| 09:15– 09:30 | Group photo |
| 09:30 – 10:00 | Keynote: Policy guidelines for electric 2-3 wheelers for the ASEAN [online]
Dr. Horizon Gitano – UNEP Consultant |
| 10:00 – 10:20 | Role of Policymaking in Mainstreaming Electric Mobility in Southeast Asia [online]
Ms. Glynda Bathan-Baterina – Clean Air Asia |
| 10:20 – 10:40 | Coffee Break |
| 10:40– 11:00 | Thailand energy efficiency labeling for electric 2 wheeler
Mr. Somsak Prangthong – EGAT |
| 11:00 – 11:20 | How ASEAN EV Association push forward electric 2-3 wheelers in ASEAN [online]
Dr. Manny Biona – EVAP |
| 11:20 – 12:05 | 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 [online] |
| | Thailand:
Dr. Nuwong Chollacoop – MTEC |
| | Vietnam:
Prof.Dr. Vu Ngoc Khiem – University of Transport Technology [online] |
| | Moderator
Mr. Bert Fabian |
| 12:05 – 12:20 | Q & A |



Conference Program

25 September 2020

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 counties, 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 |

Conference Program

25 September 2020

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
- 14:00 – 14:20 Managing the transition – preconditions for electrification**
Robin Kaenzig, Independent Consultant, Robin Kaenzig Ltd.
- 14:20 – 14:40 Electric bus deployment in European cities. Solaris e-mobility experience**
Mateusz Figaszewski, Director E-mobility Development and Market Intelligence Office, Solaris Bus & Coach
- 14:40 – 15:00 Composite EV bus structure**
Asst. Prof. Dr. Kitchanon Ruangjirakit, KMUTT
- 15:00 – 15:20 Coffee Break**
- 15:20 – 15:50 Thailand EV Bus Projects:**
The Public Electric Vehicle Transportation Development Plan in Thailand
Assoc.Prof. Dr. Surin Khamfoi, KMITL, TBC
- E-Mobility for mass transit in Bangkok metropolis: E-boat and E-Bus**
Mr. Somphote Ahunai, CEO, Energy Absolute (EA), TBC
- First and Last Mile Connectivity**
Mr. Krit Vichaiwatanapanich, CEO & Co-founder, Haupcar Co., Ltd.
- 15:50 – 16:10 Deploying E-Bus Fleets – Experience from Shenzhen**
Hallie Liao, Head of International Development, Shenzhen Bus Group,
- 16:10 – 17:00 Panel Discussion “How to speed up E-Bus Deployment in Thailand”**
Panelists
- | | |
|--------------------------------------|-------------------------------|
| Alok Jain | Assoc.Prof. Dr. Surin Khamfoi |
| Robin Kaenzig | Somphote Ahunai |
| Mateusz Figaszewski | Mr. Krit Vichaiwatanapanich |
| Asst.Prof.Dr. Kitchanon Ruangjirakit | Hallie Liao |
- Modulator**
Carolin Capone (GIZ)



Conference Program

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.evta.online>

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 <p>FOMM One Drive & Ride</p>	 <p>HYUNDAI KONA electric Drive & Ride</p>	 <p>JAGUAR I-PACE Drive & Ride</p>
 <p>New MG ZS EV Drive & Ride</p>	 <p>PORSCHE Taycan 4S Drive & Ride (PRESS ONLY)</p>	 <p>TAKANO TTE 500 Drive & Ride</p>
 <p>NISSAN KICKS Drive & Ride</p>	 <p>VOLVO S60 Drive & Ride</p>	

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CEO eMobility Forum on “Scaling-up Electric Mobility & Beyond”

Date: 23 September 2020
Afternoon Session (12:30 – 20:00)
| Room SILK 3-4, BITEC, Bangkok

Mr. Zhang Jiaming (English name: Elliot Zhang), is President of Great Wall Motors ASEAN and Thailand, responsible for overall management of Great Wall Motors (GWM) in Thailand and ASEAN countries. Mr. Zhang has been deeply involved and highly experienced in automotive fields for almost 20 years – including automotive research, manufacturing, supply, sales and marketing, and the whole entire business processes. Mr. Zhang has successfully promoted and led disruptive innovations of GWM pickup brand and series of products in several markets.

Mr. Zhang started his career with GWM at Great Wall Automobile Research Institute in 2003 and was responsible for research and development of vehicle frame and chassis. In 2007, Mr. Zhang became Project Management Director, in charge of product design, product data development, project management and other related works.

In 2019, Mr. Zhang was appointed as General Manager of Great Wall pickup brand, responsible for the overall management of the company. In the same year, Great Wall pickup sales increased by 7.85% year-on-year, achieving the first rank of domestic and export sales in China for 22 consecutive years.

In 2020, with his rich expertise and experiences, Mr. Zhang Jiaming will serve as President of Great Wall Motors ASEAN & Thailand, responsible for business development and overall management of production and marketing in Thailand and the ASEAN region.



Mr. Zhang Jiaming
President
GWM (Thailand)



Mr. Zhang Haibo
President
MG Sales Thailand.

CEO eMobility Forum on “Scaling-up Electric Mobility & Beyond”

Date: 23 September 2020
Afternoon Session (12:30 – 20:00)
| Room SILK 3-4, BITEC, Bangkok

Mr. Zhang Haibo,
President of SAIC Motor – CP Company Limited and MG Sales
(Thailand) Company Limited

Established in 2013, MG Sales (Thailand) Co., Ltd, is the sales, marketing, and after-sales services arm for MG brand in Thailand. The company oversees dealer networks which is both a joint venture and a business unit of Charoen Pokphand Group (CP) and Shanghai Automotive Industry Corporation (SAIC). Both CP and SAIC operate the state-of-the-art SAIC Motor-CP Co., Ltd manufacturing, a global production hub for right-hand-drive MG which assembles the iconic MG vehicles, to serve both domestic and ASEAN markets.

Since the launch of first MG model in July 2014, MG has been introducing several innovative and smart car models including passenger and commercial car to Thai market and positioned as the leader in SUV segment as well as BEV segment. MG is one of trusted auto brands with continuous growth and is determined to go forward to present better automotive innovations to the market with PASSION TO BE BETTER philosophy

CEO eMobility Forum on “Scaling-up Electric Mobility & Beyond

Date: 23 September 2020
Afternoon Session (12:30 – 20:00)
| Room SILK 3-4, BITEC, Bangkok

Personal Life:

Ramesh was born in India, studied in Australia and married with two kids. He loves driving, and he was one of those guys who used to take care of the car – a lot. Wash it, wax it, make sure there were no scratches. He used to ‘bleed’ if there was a scratch.

“When I was a kid I really didn’t know what I wanted to do, but when I discovered numbers and finance, I just knew that I had found my passion. And working in the auto industry, overseeing finance and leading management, is a dream come true for me. So coming to work every day just doesn’t seem like work.”

His experience in the auto industry for 20 years across this region - including Australia, China, Philippines and now Thailand

Ramesh has more than two decades of experience in general management and finance roles in the automotive industry in Australia, China, the Philippines and the United Kingdom.

He joined Nissan in 2014 as chief financial officer at Nissan in Australia. Since taking on the role of president and managing director for Nissan in the Philippines in 2016, he led Nissan to unprecedented sales and market share growth in the country.

In his role as a president for Nissan in Thailand, Ramesh Narasimhan is responsible for developing business strategies to maximize Nissan’s overall performance, managing product introductions and expanding the Nissan brand in Thailand, as part of the company’s midterm plan Nissan M.O.V.E. to 2022. These include the latest introduction of the all-new Nissan Almera sets a great example of Nissan brand enhancement in Thailand and the investment in future technologies including e-POWER.



Mr. Ramesh Narasimhan
President
Nissan Motor Thailand

He also oversees manufacturing at the plants in Thailand catering to the domestic market as well as exports to more than 100 countries.

Leadership philosophy:

He is a people-oriented leader who emphasizes trust, transparency and empowerment. Hence, one of his goals with Nissan employees is to communicate as much as possible, and create as many employee connections as possible.

Aspiration:

Ramesh has a goal at to make Nissan Thailand even more nimble and driven by passion, which will help drive growth.



Mr. Panus Watanachai
Chief Executive Officer
Panus Assembly Co. Ltd.

Despite the fact that Panus Assembly is presently a fully automated production lines on skeleton and dump trucks through system integrations, robotics and ASRS in inventory control, Mr. Panus Watanachai also determined to further new business and strong strategic directions on (i) Digitalized Logistics Platform, (ii) Future Mobility and Sharing Economy, (iii) Electric and Autonomous Vehicles, and (iv) Renewable Energy. Such directions aim at promoting Panus Assembly to be a leader in providing “innovative logistical solutions” and “Globally Recognized brand”.

CEO eMobility Forum on “Scaling-up Electric Mobility & Beyond

Date: 23 September 2020
Afternoon Session (12:30 – 20:00)
| Room SILK 3-4, BITEC, Bangkok

Mr. Panus Watanachai

Chief Executive Officer, Panus Assembly Co., Ltd.

Mr. Panus Watanachai received his bachelor degree in Marketing and Economics from Loyola Marymount University, California, USA, in 1998. He joined Panus Assembly in 2000 as a marketing manager. Since 2003, he has become a CEO as well as a member of executive committee of Panus Assembly. In addition, he is an executive board of P-Tree holding Co., Ltd., Wingserve Co., Ltd., and various startup companies both in Thailand and oversea. Mr. Panus Watanachai was honored to be a Quality Person of the Year 2018 given by Foundation of Science and Technology Council of Thailand.

Mr. Panus Watanachai is professional in managing Panus Assembly towards 50 years of experience, which is the largest trailer manufacturing company in Thailand, and has been certified as the “First Class Manufacturer” from Department of Land Transport, Thailand. Presently, Panus Assembly has existing strategic business units, involving (i) Logistics, (ii) Fabrication, (ii) Aviation, (iii) Special Purpose Vehicle, and (iv) Service (with 200 S-plus service center for repair and maintenance throughout the country). All operation is under international standards ISO 9001-2015, OHSAS 18001-2007, TIS18001-2554, UL Standard Safety, and IATA Strategic Partnerships. As such standards, Panus products have been exported worldwide, for instance, most ASEAN countries, UK, Australia, Dubai, and South Africa. It is the fact that Panus is committed to operating sustainable business by adhering to good corporate governance principles.

CEO eMobility Forum on “Scaling-up Electric Mobility & Beyond”

Date: 23 September 2020
Afternoon Session (12:30 – 20:00)
| Room SILK 3-4, BITEC, Bangkok

Dr. Phasin Suebsubanunt

Education:

Doctoral of Business Administration at Henley Business School, Brunel University, U.K. Master of Business Administration at Asian Institute of Technology, Netherlands Bachelor of Electronics and Electrical Engineering (Honors) at Chulalongkorn University

Current Position:

President - Corporate Finance of AEC Securities Public Company Limited Chairman - President Global Medical Company Limited Director - Thai National Product Company Limited - Director - Smart Station Company Limited

Other Qualifications:

Vice President - Asia Pacific Chamber of Commerce in Croatia in 2019 Financial and Investment Advisory Licensor from Monetary Authority of Singapore in 2010 Arbitrator for the Intellectual Property Court since 2003

Appointment by Government Institutions:

Sub-Committee member for Economy, Commerce and Industry of the Senator of the Thai House of Parliament since 2008 Advisor to the Minister to the Prime Minister Office on Electricity Policy in Thailand 2001-2002 Sub-Committee member for Bond Market Development appointed by the Ministry of Finance 1996-2001



Dr. Phasin Suebsubanunt
Co-Founder
Skywell Thailand &
Smart Station



Mr. Chris Wailes
Managing Director
Volvo Car Thailand



Ms. Veenarat Laohapakul
Newscaster
One31 Channel

Moderator

CEO eMobility Forum on “Scaling-up Electric Mobility & Beyond

Date: 23 September 2020
Afternoon Session (12:30 – 20:00)
| Room SILK 3-4, BITEC, Bangkok

Chris Wailes

Managing Director, Volvo Car Thailand

Chris was appointed as Managing Director Volvo Car Thailand 1st June 2017. Before that Chris was a Market Area Director, Asia Pacific for Volvo Cars since July 2015, and was based in Shanghai China. In that time Chris was responsible for selecting and developing new importer markets in Vietnam, Sri Lanka and Myanmar, as well as having operational responsibility for India, Australia, New Zealand and Philippines. Chris has been working for Volvo cars for 30 years. He has held various positions within Volvo Car Group as well as responsibilities for various countries around the globe

Chris joined Volvo Cars in 1989. He was appointed as a car sales executive for a Volvo dealership in the United Kingdom and quickly worked through the business reaching Dealer Principal, before Joining Volvo Cars UK as a Regional Dealer Performance Manager. In 2000, Chris took charge of Volvo UK’s large car platforms for both product offer as well as pricing, and was responsible for increasing the national sales performance by 78% in just one year.

From 2008 to 2012, he was Product and Pricing Manager for Europe, and during this period he was involved and managed the product offer for Volvo Car Russia, as well as other European markets. From 2012 he was relocated to Volvo Cars in Gothenburg where he was appointed Global Product and Carline Performance Director responsible for product and product offer globally as well as being involved with various product launches such as:

- V40
- V40 Cross Country
- V60 Twin Engine (Diesel Plug in Hybrid).

Chris holds a post graduate certificate in Retail Automotive Management from Loughborough University, United Kingdom

CEO eMobility Forum on “Scaling-up Electric Mobility & Beyond

Date: 23 September 2020
Afternoon Session (12:30 – 20:00)
| Room SILK 3-4, BITEC, Bangkok

Roland Sebastian Folger

President & CEO, Managing Director Passenger Car Region SEA1,
Mercedes-Benz (Thailand) Ltd.

- Roland S Folger was born in Stuttgart, Germany on December 29, 1959. He is married and has one son and two daughters.
- He joined Daimler-Benz in 1979.
- He studied Business Administration at the Berufsakademie, Stuttgart (Diploma Betriebswirt 1979).
- Between 1981 and 1982 Roland S Folger joined Daimler-Benz's Trainee Program.
- In 1984 he joined the Parts Organization supporting warehouse move for several countries.
- The following year he moved on to the Sales Department for Passenger Cars and Commercial Vehicles covering SEA Region especially Indonesia.
- Between 1988 and 1989, he was appointed as President & CEO in Daimler Benz Representative Office in Singapore.
- Later in 1990 he returned to Daimler AG back into the Passenger Cars Sales function supporting NEA and SEA.
- In 1992, he was appointed Personal Assistant to the Board Member for Passenger Cars Sales & Marketing in Daimler AG.
- In end of 1993- 1995, Roland S Folger was appointed Vice President for Sales, Marketing and After Sales in Daimler AG to which he was part of the pioneering team introducing the first M-Class in USA.
- In 1997, he returned to DAG managing VIP Sales, Central, Special Protective Vehicles, AMG, Technical Accessories, Merchandise and Product Management for M-Class, R-Class and later A-Class and B-Class.



Mr. Roland Folger
President & CEO
Mercedes Benz Thailand

- In 2006, he joined Mercedes-Benz Vans Division as Head of Product Management and Marketing Communication and took over the responsibility for worldwide Sales Vans in September 2008.
- On March 2011- 30 September 2015, Roland S Folger was appointed as President and CEO of Mercedes-Benz Malaysia Sdn. Bhd. and moved to India to taken over as the Managing Director & CEO of Mercedes-Benz India from October 2015 to 30th September 2018.
- From 1st October 2018, Roland S Folger will be moved to Thailand with his new assignment as the Managing Director Passenger Car Region SEA1 and President & CEO Mercedes-Benz Thailand Limited.

Honoring Nobel Prize in Chemistry 2019 “Lithium-ion Batteries”

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



Dr. M. Stanley Whittingham
Nobel Laureate in Chemistry 2019
Binghamton University, USA

**Plenary Speaker: Honoring
Nobel Prize in Chemistry
2019 (VDO Call in)**
| 09:20 – 10:00

Date: 24 September 2020
| Room SILK 3-4, BITEC, Bangkok

Dr. M. Stanley Whittingham is a SUNY distinguished professor of chemistry and materials science and engineering at SUNY Binghamton and the 2019 Chemistry Nobel Laureate. He received his BA and D Phil degrees in chemistry from Oxford University, where he is an honorary Fellow of New College. He has been active in Li-batteries since 1971 when he won the Young Author Award of the Electrochemical Society for his work on the solid electrolyte beta-alumina. In 1972, he joined Exxon's Corporate Research Laboratory and discovered the role of intercalation in battery reactions, which resulted in the first commercial lithium rechargeable batteries that were built by Exxon Enterprises. In 1988 he returned to academia at SUNY Binghamton to initiate a program in materials chemistry. He initiated graduate program in Materials Science and Engineering. He was awarded a JSPS Fellowship in the Physics Department of the University of Tokyo in 1993. From 1993-1999 he was Vice-Provost for Research. In 2004 he received the Battery Division Research Award. He is presently Director of the NECCES EFRC based at Binghamton. In 2012 he received the Yeager Award of the International Battery Association for his lifetime contributions to battery research; in 2015 he received the Lifetime Contributions to Battery Technology award from NAATBaaT, in 2017 the Senior Research Award from Solid State Ionics, and in 2018 was elected a member of the National Academy of Engineering and received the Turnbull Award from MRS. He is a Fellow of both the Electrochemical Society and the Materials Research Society. He is Vice-Chair, Board of Directors of the New York Battery and Energy Storage Technology Consortium (NYBEST).

Battery ESS powering the future of Thailand industry by GPSC

| 10:45 – 11:05

Date: 23 September 2020
| Room SILK 3-4, BITEC, Bangkok

Mrs. Rosaya Teinwan is currently an executive vice president of business development at the Global Power Synergy PLC. (GPSC). Her career has been in the professional of business development and strategic management in various business units and subsidiaries of PTT Group, for both domestics and international. Ms. Teinwan's previous positions include:

- Vice President, Strategic Management Department, Upstream Business Unit, PTT PLC.,
- Director and Managing Director, PTT Green Energy (Netherlands),
- Acting President, PTT Energy Resources Company Ltd.
- and CEO of Sakari Resources Ltd.

Since September 2019, she has been taking position at GPSC as executive vice president of business development over looking new business, investment and new technology units.

Ms. Teinwan received a Bachelor's degree in Electrical Engineering from Kasetsart University and Master of Business Administration Rangsit University.

Energy Storage Development Progress by Thonburi Energy Storage Manufacturing (TESM)

| 11:55 – 12:15

Date: 24 September 2020
| Room SILK 3-4, BITEC, Bangkok



Ms. Rosaya Teinwan
Executive Vice President
Business Development
Global Power Synergy Public Co., Ltd.



Mr. Ratapon Viriyaphant
Thonburi Energy Storage Manufacturing

Honoring Nobel Prize in Chemistry 2019 “Lithium-ion Batteries”

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



Mr. Thomas Leonard
DNVGL

In 2013 - 2014 he managed a project on behalf of Enemalta, the Maltese state energy utility to develop a Build, Own and Operate 200 MW CCGT and corresponding LNG receiving and regasification terminal. In 2014 - 2015, he delivered a number of projects to utility clients in China, Australia and the US to benchmark operational and management processes of UK and European companies.

For two years, he has been a Vice-President of the Thai Wind Energy Association (ThaiWEA), responsible for technical issues. He is also editor of Wind News, the newsletter of Thai WEA. ThaiWEA supports stakeholders in the Thai Wind Market, as well as Thai developers in other countries, such as Vietnam.

Thomas has a Bachelor's degree in Mechanical Engineering from Bristol University in the UK, a Diplom Ingenieur from Dresden Technical University in Germany and an MBA from Cass Business School in London.

Keynote Speaker: Energy Storage Industry Pathway | 11:05 – 11:39

Date: 24 September 2020
| Room SILK 3-4, BITEC, Bangkok

Thomas Leonard manages the DNV GL Energy teams in Thailand and Indonesia. DNV GL Energy provides technical and commercial support to developers, operators and investors in renewable power, electricity networks and storage. DNV GL Energy in Bangkok supports government and non-government organisations, fuel suppliers, developers and investors in Thailand as well as Thai developers and investors in other countries.

Thomas has been working in the energy industry as developer and consultant for more than 15 years. Prior to this, he was a Marine Engineer Officer in the British Royal Navy. Before coming to Thailand in 2017, he worked for the DNV GL London Markets & Regulations team which was at that time supporting the rapid expansion of energy storage in Great Britain resulting from the creation of the Frequency Response market. He personally led the DNV GL team which supported the development of the UK energy storage services range for French utility EDF. He has helped developers in Europe and Asia to conduct procurement of energy storage solutions appropriate to their markets.

He also has long experience of supporting wind and solar power and other low carbon technologies in Europe, Asia, Australia and North America. His team has been instrumental in supporting the expansion of Thai investments into Vietnamese renewable energy. He also has experience in the fossil fuel industry, having previously worked for London-based gas power developer, Advanced Power.

Energy Storage Development Progress by Banpu NEXT

| 11:35 – 11:55

Date: 24 September 2020
| Room SILK 3-4, BITEC, Bangkok

Mr. James Rama Phataminviphas
Group Senior Vice President, Banpu NEXT Co., Ltd.
Energy Technology Business Group of BANPU, Banpu PCL

Being at the helm of Banpu NEXT, a subsidiary of Banpu PCL, Mr. James also plays a key role in strategic planning, business development and overall management of Energy Technology Business Group of BANPU to ensure its alignment with BANPU's 'Greener & Smarter' strategy and ability to keep pace with the fast-changing world. He is a leader who drives for strong corporate culture and continuous self-development of company's people at all levels.

Before joining BANPU, Mr. James has more than 24 years of work experiences that spanned across banking, finance and telecommunication, which shaped him as an executive who is keen in technology-driven business transformation to achieve greater efficiency and competitiveness. In banking sector, he was most recently Country Head of Channels and Digitalisation at United Overseas Bank (Thai) PCL, a position with more than 1,500 people under his leadership. With another high-level management position assumed earlier at Kasikornbank PCL, he was regarded as the youngest executive in Thailand's banking industry. Mr. James is renowned for his exceptional depth in digital banking, strategic planning and people management. His open attitude towards human capital means that his people can enjoy the opportunity to unleash their full potentials, including greater freedom in their decision-making and job execution as well as strong internal support for their skills and knowledge development. Moreover, Mr. James also has extensive work experiences in Thai and overseas telecommunication markets including USA and China.



Mr. James Rama Phataminviphas
Group Senior Vice President
Banpu NEXT Co., Ltd.

Mr. James graduated with a Bachelor of Engineering from the Department of Telecommunication and Electronic Engineering, Faculty of Engineering, King Mongkut's University of Technology Thonburi.

He continued to earn a Master of Business Administration in Entrepreneur Finance and Marketing Strategy from the Kellogg School of Management at Northwestern University, USA, and another Master of Business Administration in Entrepreneur and Finance from Sasin Graduate Institute of Business Administration of Chulalongkorn University.



Mr. Anantadej Intravisit
E-Mobility Manager
BMW Thailand

“Power of choice”: effective approach for global sustainability.

The current model offensive is paving the way towards this goal, with the company following the “power of choice” approach in order to take account of customer needs and legal requirements on the global automotive markets. The BMW X3 is the first model available either with highly efficient petrol and diesel engines including 48-volt mild hybrid technology, with a plug-in hybrid drive system or all-electric drive system.

Electrification of drive systems is an integral part of the future field D-ACES (Design, Autonomous, Connected, Electrified und Services/Shared) defined by the BMW Group in their NUMBER ONE > NEXT strategy. Today, the BMW Group already offers the widest selection of corresponding vehicles worldwide. These models also impress with sporty characteristics. Furthermore, their attractiveness is attributable to an expressive design and advanced technology in the areas of operation and digitalization, which are oriented to the lifestyle of contemporary target groups.

Keynote Speaker: BMW Group Electrified Vehicles Outlook

| 13:30 – 14:00

Date: 24 September 2020

| Room SILK 4, BITEC, Bangkok

Abstracts:

With a ten-year plan for sustainability, the BMW Group is underscoring its commitment to the goals of the Paris climate agreement, the main focus being on the expansion of electric mobility. Today, the BMW and MINI brands featuring all-electric and plug-in hybrid drive systems respectively already account for approximately 13.3 of all new registrations Europe-wide (source: IHS Market New Registrations July 2020 Report). This corresponds to 1.5-fold of the average share of all brands, which is around 8 percent. The company expects this figure to rise to a quarter by 2021, to a third by 2025 and to 50 percent by 2030.

Vehicles of the BMW and MINI brands featuring electrified drive systems are now offered in 74 markets worldwide, where more than 500,000 electrified vehicles were sold by 2019. By the end of 2021, this figure will probably rise to over a million. In spite of pandemic related restrictions, more vehicles from the BMW Group were sold during the first half of 2020 than in the corresponding previous-year period. BMW Group sustainability goals aim at putting more than seven million vehicles with electrified drive systems on the road worldwide by 2030, two thirds of them all-electric variants. As a result of the massive expansion of electric mobility, emissions produced by BMW Group vehicles per kilometre driven will be reduced by around 40 percent by the year 2030.

Keynote Speaker: MG EV Technology | 15:15 – 15:45

**Date: 24 September 2020
| Room SILK 4, BITEC, Bangkok**

MG as the leader in BEV segment in Thailand

MG has been recognized as an automotive brand committed to keenly and continuously expand the market with finest products equipped with full of innovations to meet all aspects of modern customer' lifestyles and conform with the four core principles of MG's parent company—SAIC Motor Corp.—which includes Intelligent Connectivity, Electrification, Car Sharing, and Globalization.

Since June 2019, MG unveiled NEW MG ZS EV as MG's first pure electric vehicle in Thailand with the purposes to redefine Thai automotive industry and be a driving force to stimulate Thais to consider vehicles with alternative energy platforms. New MG ZS EV has created and delivered an outstanding experience through the inclusion of groundbreaking innovations and technologies that turn the idea of using an EV into an "Easy".

- Easy Drive from the electric motor that can deliver full power immediately with incredible starting acceleration. Thanks to the hairpin winding, the motor has more efficiency, more torque and power than the regular electric motors. The battery is strictly designed according to the most authoritative standard in the United States, UL2580 standard. In addition to its intelligent temperature management system, its battery is equipped with liquid cooling to ensures efficiency of all functions in varying environments and temperature conditions

- Easy Connect through the i-SMART system operated by voice command and mobile application to check battery level, real-time charging status and nearby charging stations, etc.

- Easy Charge via AC Normal Charge which can recharge the battery from 0 to 100 percent in 6.5 hours and DC Quick Charge at a compatible public charger which can recharge the battery from 0 to 80 percent in 30 minutes and the car will be able to drive at the maximum of 337 km (NEDC) with one full charging.



Mr. Pongsak Lertrudeewattanavong
Vice President
MG Sales (Thailand) Company Limited.

- Easy Maintenance with less key components compared to a gasoline counterpart so the maintenance cost can be significantly saved at only 8,940 Baht for 100,000 kilometers and with the module change for impaired battery without having to replace the entire battery.
- Easy Own with affordable price at 1,190,000 Thai Baht.

As the leader in BEV segment, MG continues to strengthen EV Ecosystem by collaborated with government agencies, state enterprises including MEA and PEA and private sectors to assure the public of infrastructure readiness. MG also eyes to increase nationwide charging stations by completing the installation of 100 chargers at MG dealers across Thailand. A new energy vehicle is also scheduled to be introduced to Thai market to ultimately and sustainably enlarge EV usage that can foster its growth in Thai automotive industry in a long run.

MG will continue to offer a variety of products with innovative and smart features as well as services that outperform market averages. Additionally, MG will contribute more in creating a superior driving experience for MG customers and bring a sustainable growth to the Thai automotive industry



Mr. Theerasak Phetchot
Regional Manager
GridWhiz (Thailand) Co., Ltd.

In addition, the PumpCharge platform provides detailed information for EV car owners, EV charging station owners, EV charging network owners, and EV charging service operators. Online features provide with all essential elements, namely overall operation status, detailed service history, necessary remote control, report generation, processed data analytics with simple graph/chart presentation, integration to POS system. GridWhiz has paved the way to automatic online payment with consideration to better user experience in this industry, but with the concept of system security design and implementation in mind. PumpCharge is truly an evolution of the dynamic ecosystem for EV charging infrastructure in Thailand and ASEAN countries.

Keynote Speaker: Localization of Electric Vehicle Chargers and the sophisticated "PumpCharge" Management Platform
| 15:45 – 16:15

Date: 24 September 2020
| Room SILK 4, BITEC, Bangkok

Different cities or living environments have unique characteristics, indeed, based on their arbitrary way of evaluation. With the advent of international standards, especially in the e-mobility infrastructure, most countries have adopted the technology due to the influx of electric vehicles from various continents. However, localization is considered a must in the technology not only in the local language support but also in other aspects. Originated by research projects, GridWhiz provides customized design and development of electric vehicle chargers in the variety of slow to the quick charger ranging from low powered AC chargers to higher power DC chargers. Behaviors of local EV drivers have been scrutinized for the better user experience designs on the customer journey with easy charging steps, specific procedures, operation flows, language localization, and domestic payment channels. The special firmware with the graphical user interface is carefully developed accordingly. GridWhiz has collaborated with a leading research institute and a university for building a technically customized version of EV chargers, mainly to prove the concept of an automatic function and unique integration to the national smart grids.

Moreover, with seamless integration to the PumpCharge platform, this AI-enabled system recommends the nearest charging station where available based on user's current location. Several searching conditions by entering arbitrary keywords can easily be applied to meet user's criteria or limited down to the user's EV inlet type only. Pumpcharge also helps planning your traveling itinerary, providing ETA information, as well as displaying exact locations of EV charging stations to be stopping by, throughout the hassle-free journey.



**Mr. Bert Fabian,
UNEP**

Chair & Moderator

Welcoming speech

| 15:45 – 16:15

Date: 25 September 2020

| Room SILK 4, BITEC, Bangkok

Bert Fabian leads the work of UNEP's Air Quality and Mobility Unit in Asia-Pacific and coordinates the activities of the Global Fuel Economy Initiative, an initiative that aims to improve the fuel economy of all road vehicles across all energy types, including internal combustion engines, hybrid engines, and electric vehicles. Bert supports the air quality-related work of UNEP's Regional Office for Asia Pacific as well. Prior to joining UNEP in March 2013, he was the Transport Program Manager of Clean Air Asia, a non-stock non-profit regional organization. He has also worked for the Asian Development Bank on various transport and air quality projects. Bert holds a Master's Degree on Urban and Regional Planning major in Transportation, and a B.S. Biology degree from the University of the Philippines.

**Keynote: Policy guidelines
for electric 2-3 wheelers for
the ASEAN [online]
| 09:30 – 10:00**

**Date: 25 September 2020
| Room SILK 4, BITEC, Bangkok**

After completing his masters at the University of California at San Diego, Horizon hitchhiked around Central America for a year, working on farms and national park as he traveled. From 1992 to 2001 he worked at Seagate R&D centers in the US and their factories around the world including Mexico, Singapore, Malaysia, Thailand and China.

In 2001 he returned to Colorado State University to complete his PhD in Mechanical Engineering. He was a lecturer at Colorado State University 2002-2004 and from 2006 to 2012 was a Professor at the University Science Malaysia. In 2008 he founded Focus Applied Technologies as a technology company producing dynamometers and engine and vehicle test, measurement and control systems. Horizon runs Focus full time, frequently lectures at numerous universities and industries, performs research for various governmental bodies including the UNFCCC, UNEP, UNDP, GIZ (Germany, analyzing transportation systems and government policy), SIRIM (Malaysia's Standards organization, chairman of committee developing national vehicle standards) and the World Wildlife Fund (WWF, performing city wide green house gas emissions analysis) and is a visiting professor at the University of Kuala Lumpur Malaysian Spanish Institute, University Malaysia Pahang in Malaysia, and Del La Salle University in Manila.

Areas: Transportation Systems, Vehicles, Mechanics, Dynamics, Mechatronics, Internal Combustion Engines, Fuel Injection Systems

Full bio (though more casual) can be found at: <http://www.skyshorz.com/personal/bio.php>



Dr. Horizon Gitano
UNEP Consultant



Ms. Glynda Bathan-Baterina
Clean Air Asia

**Role of Policymaking in
Mainstreaming Electric
Mobility in Southeast Asia
[online]
| 10:00 – 10:20**

**Date: 25 September 2020
| Room SILK 4, BITEC, Bangkok**

Glynda Bathan-Baterina is the Deputy Executive Director of Clean Air Asia. She is a lawyer with 19 years of experience in policy and program development and implementation in air quality management and governance, sustainable transportation, and climate change mitigation. She helped draft the Philippine Clean Air Act of 1999 Implementing Rules and Regulations; led the implementation of the Asia Clean Fuels and Vehicles program which resulted in policies and roadmaps for cleaner fuels and vehicles in Vietnam and the Philippines; and testified in the Philippine Congress on measures including providing incentives for electric and low-emission vehicles. She leads her team in assisting governments strengthen vehicle emission standards and fuel specifications; and develop and implement programs to green the freight sector.

Glynda holds a Master's degree in Environmental Management from the Ateneo de Manila University and University of San Francisco (joint program); and a Bachelor of Laws from the University of the Philippines.

Thailand energy efficiency labeling for electric 2 wheeler

| 10:40– 11:00

Date: 25 September 2020
| Room SILK 4, BITEC, Bangkok

How ASEAN EV Association push forward electric 2-3 wheelers in ASEAN [online]

| 10:40– 11:00

Date: 25 September 2020
| Room SILK 4, BITEC, Bangkok

Dr. Biona is currently the Executive Director of the Electric Vehicle Association of the Philippines and a Professor of Mechanical Engineering and the Executive Dean of the Enrique Razon Jr. Logistics Institute of De La Salle University (DLSU). He is an Advisor to the Board of Tojo Motors Corp., one of the biggest electric vehicle manufacturing company in the Philippines and is a co-founder of the BlueSea Energy Consulting, an organization involved in introducing energy efficient sea and road transport technologies. He led the Department of Trade and Industry (DTI) sanctioned analysis of strategies and policies to guide electric vehicle adoption and industry growth in the Philippines and is currently closely working with the Land Transportation Office in the crafting of the Electric Vehicle Regulations. He is also engaged by Clean Air Asia in the UNEP supported project extending technical assistance to the government in the implementation of electric two and three wheeler regulations and standards in the country. He was formerly the Director of the Center for Engineering and Sustainable Development (CESDR) of DLSU and the Director of the Center for Research and Training (CRT) of Don Bosco Technical College (DBTC). He has extended consulting services to various international organizations including Clean Air Asia, USAID, UNE and GIZ and various government agencies in the field of sustainable mobility, energy and air pollution control.



Mr. Somsak Prangthong
Electricity Generating Authority
of Thailand (EGAT)



Dr. Manny Biona
Electric Vehicle Association
of the Philippines (eVAP)

Electric Two and Three Wheelers Standard in ASEAN

Co-Hosted by UNEP and MTEC



Mr. Leonido J. Pulido III
Department of Energy

Updates from “Integrating electric 2&3 wheelers into existing urban transport modes in developing and translational countries”
| 10:00 – 10:20

Date: 25 September 2020
| Room SILK 4, BITEC, Bangkok

Updates from “Integrating electric 2&3 wheelers into existing urban transport modes in developing and translational countries”
| 10:00 – 10:20

Date: 25 September 2020
| Room SILK 4, BITEC, Bangkok



Dr. Nuwong Chollacoop
National Metal and Materials
Technology Center (MTEC)

MC

Dr. Nuwong Chollacoop

National Metal and Materials, Technology Center (MTEC)

Over the past few years, there have been many movements toward utilization of electric 2&3 wheelers in Thailand ranging from national policy direction, technical specification for registration with Department of Land Transport, manufacturing for commercial sale and demonstration. The presentation will also link current initiatives of electric 2&3 wheelers with United Nations Environment Programme (UNEP) project, “Mainstreaming Electric Mobility 2 and 3 Wheelers in Thailand” in collaboration with National Metal and Materials Technology Center (MTEC) with aims to assess national baseline/Business-As-Usual (BAU) scenarios to set the stage for uptake of electric 2&3 wheelers and electric mobility at large in Thailand, as well as conduct relevant technical studies to support policy and standards development on electric 2&3 wheelers.

Updates from “Integrating electric 2&3 wheelers into existing urban transport modes in developing and translational countries”
| 10:00 – 10:20

Date: 25 September 2020
| Room SILK 4, BITEC, Bangkok

Joining the Transport Sector for 25 years, Dr. Khiem is now the chairman, Board of Trustees at the University of Transport Technology. The University belongs to Ministry of Transport in Vietnam. As a top manager of the University, he has managed and developed the University as a key training and researching institution which is contributing greatly to the development of transportation in Vietnam.

Beside the management work at the University, Dr. Khiem is also a member of the Science and Technology Council of Ministry of Transport, and a member of the National Technical Committee for internal combustion engine. At the same time, he is a senior researcher focusing on climate change, clean energy and e-mobility topics.

Regarding the EV researching, beside the national researches assigned by Vietnamese authorities, he has worked tiely with the Clean Air Asia, the UN Environment Program and the European Commission for the transition of electric vehicles in Vietnam. The current projects on EV are:

- “Mainstreaming Electric Mobility (focusing on 2-wheelers) in Vietnam”, UNEP, 2018 - 2020; and
- “SOLUTIONSplus: Integrated Urban Electric Mobility Solutions in the Context of the Paris Agreement, the Sustainable Development Goals and the New Urban Agenda”, European Commission, 2020-2023.



Prof. Dr. Vu Ngoc Khiem
University of Transport
Technology

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Jacques Borremans
CharIN

Opening Remark | 09:00 – 09:10

Date: 25 September 2020
| Room SILK 3, BITEC, Bangkok

**Collaboration between
ASEAN counties, from
battery safety, charging
safety to vocational
training, Labour safety etc.**
| 09:10 – 09:35

Date: 25 September 2020
| Room SILK 3, BITEC, Bangkok

Volker Blandow, Dipl.-Ing. (FH)
Global Head of E-Mobility, TÜV SÜD Germany



Volker Blandow
TUV-Sud

Mr. Blandow is the “Global Head” of electric mobility activities at TÜV SÜD. Since 2017 Volker Blandow is located at TÜV SÜD Greater China office in Hong Kong, he joined TÜV SÜD in 2011, After studying electrical engineering in Munich, Germany Mr. Blandow started in the field of electric vehicles at BMW back in 1991. At that time BMW developed their first pure electric vehicle with Sodium-Sulfur batteries. From 1994 to 2011 he was active as a strategy consultant in the field of renewable energies, clean transport technologies and energy storage systems, mainly based on hydrogen. Important topics have been studies on the depletion of fossil resources, life cycle analyses and especially electric vehicles with fuel cells and batteries. His specific topics have been impact assessment analyses on new fuels and renewable energies as well as energy supply scenarios and renewable potential analyses.

Volker Blandow is funding member of ASPO Germany (Association for the Study of Peak Oil) and he is in the supervisory board of the Green City Energy AG.

A Case for Low Power DC
| 09:35 – 10:00

Date: 25 September 2020
| Room SILK 3, BITEC, Bangkok



Nicholas Yeoh
Rectifier

Hyundai EV Strategy
| 10:00 – 10:25

Date: 25 September 2020
| Room SILK 3, BITEC, Bangkok



Tri Wahono
Hyundai



Kumail Rashid
ABB

Charging Infrastructure for Public Transport | 10:40 – 11:05

Date: 25 September 2020
| Room SILK 3, BITEC, Bangkok

Kumail Rashid
eMobility Solutions Lead, Asia Pacific

Kumail is the eMobility Solutions Lead for ABB in Asia Pacific, based in Singapore.

Having joined ABB in 2008, Kumail has held numerous senior roles across engineering, sales and regional business development. For the last five years, he has been instrumental in supporting the development of the Electric Vehicle (EV) industry in New Zealand and Singapore, working alongside government and industry organizations to set the direction in EV strategy and policy. A few key projects in this region include country-wide infrastructure for cars, as well as charging for fully autonomous electric buses.

Kumail holds conjoint Bachelor's degrees in Engineering (Electrical and Electronic Engineering) and Commerce (Marketing) from the University of Auckland, New Zealand.

ABB leading the way in EV charging infrastructure

Having sat at the heart of developments in EV charging infrastructure throughout the last decade, ABB is in the unique position to play a prominent role in the mass adoption of electric vehicles – whether in the form of electric buses and trains or ocean-going vessels. In the case of electric cars, ABB's fast charging stations have emerged as the great enabler.

ABB has experience in creating, installing and maintaining charging infrastructure, including several nationwide charger networks in Europe, America and South East Asia.

Welcome and introduction | 13:30 – 13:40

Date: 25 September 2020
| Room SILK 4, BITEC, Bangkok



Carolin Capone
GIZ

Bus Electrification: Key enablers and success stories | 13:30 – 13:40

Date: 25 September 2020
| Room SILK 4, BITEC, Bangkok



Alok Jain
UITP Asia



Chris Liang
Shenzhen Bus Group

**Deploying E-Bus
Fleets - Experience
from Shenzhen**
| 14:00 – 14:20

Date: 25 September 2020
| Room SILK 4, BITEC, Bangkok



Asst. Prof. Dr. Kitchanon Ruangjirakit
KMUTT

**Outcomes of the EV
Bus Pilot in Bangkok**
| 14:40 – 15:00

Date: 25 September 2020
| Room SILK 4, BITEC, Bangkok

Energy Absolute: The utility's vision for electrifying public transport in Thailand

| 15:20 – 15:50

Date: 25 September 2020

| Room SILK 4, BITEC, Bangkok

Managing the transition preconditions for electrification

| 14:00 – 14:20

Date: 25 September 2020

| Room SILK 4, BITEC, Bangkok

Biography:

Robin Kaenzig is a transport economist with 18 years' experience in the field of sustainable transport. Working mainly in the largest cities in Asia and Africa, his efforts are focused on improving the quality and sustainability of urban bus operations, including planning and rationalization of urban bus networks, promoting fleet modernization, bus corridor improvement measures and Bus Rapid Transit schemes.

As a consultant with GIZ, Robin has been assisting the governments of the Philippines and Thailand in developing sustainable funding and financing models for bus and minibus fleet renewal. His focus has been on addressing the financial barriers faced by the industry, which often consist of small-scale informal operators, to enable the sector to make the necessary investments to deliver modern public transport services.

Robin has supported the successful implementation of electric minibus fleets under the ambitious Public Utility Vehicle Modernization Program in the Philippines, and in securing funding for the Nottingham Eco-Expressway which, upon implementation, was served by the largest fleet of electric buses in the UK.



Vasu Klomkliang
Energy Absolute (EA)



Robin Kaenzig
Robin Kaenzig Ltd.

Abstracts:

Electric buses will play a key role in delivering a low-carbon future in our cities, with many transport authorities having already announced targets for the electrification of the urban public transport fleet. However, ensuring the successful introduction of electric buses within a city's transport network extends well beyond the acquisition of new vehicles.

This session focuses on the preconditions which will support the transition to electrification of urban bus operations, identifying core requirements and enabling factors. The challenges can be broadly grouped into three areas, and we will consider the preconditions from an institutional, technological and financial perspective, drawing from experiences gained in Asia and in Europe.



Mr. Krit Vichaiwatanapanich
Hauptcar

Hauptcar: Electric Vehicles (EV) Sharing

| 16:10 – 16:30

Date: 25 September 2020
| Room SILK 3, BITEC, Bangkok

Mr. Krit is the Chief Executive Officer of HAU, The leading electric vehicles car sharing startup based in Thailand. He's responsible for managing the company's overall strategy and executive management. He also provides oversight for executable-related functions at the company an area central to key business strategy and exploring new opportunities for the platform and its stakeholders. Experienced in technology strategy, and startup, Krit spent several years in E-mobility, where he worked closely with both public sectors and private sectors to bring electric shared mobility to reality.

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