



# Battery, EV & Storage APAC

25 – 26 April 2018 / Bangkok, Thailand

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## Day 1 - 25 Apr 2018, Wednesday

08:00 Registration and Coffee

09:00 Chairman's Welcome & Remarks

### 09:10 Building Sturdy EV foundations – Batteries, Electric Mobility & Energy Storage

- Integrating new components and investing into supply chains
- Advancing inhouse production capabilities, strategy development and product roadmaps of future EVs
- Potential market growth and challenges to realising EV foundations in Asia Pacific

*Mr. Martin Tonko, Partner*

*Roland Berger Strategy Consultants*

### 09:45 Electric Vehicles: The Road to a More Sustainable Future

- The potential for EV growth in South East Asia
- The need for public-private collaboration
- The Nissan strategy

*Mr. Yutaka Sanada, SVP - Asia and Oceania  
Nissan Motors Company*

10:15 Presentation Topic To Be Advised

*Mr. Somphote Ahunai*

*Chief Executive Officer/Director*

*Energy Absolute Public Company Limited*

### 10:15 Macro-Economic Outlook of ASEAN Region & Outlook on Automobile Industry in Thailand

- Corresponding one belt one road opportunities
- Impacts of EU dis-integration on ASEAN
- Where are the bright spots in ASEAN?
- Outlook of the automobile industry in Thailand

*Dr. Amonthep Chawla*

*SVP & Head of Research Office*

*CIMB Thailand Public Company Limited*

10:45 Refreshments & Networking Reception

### 11:15 Market Status & Development Trend of LIB Cathode Materials

- Present Situation of LIB Cathode Materials in China
- Development Trend of LIB Cathode Materials
- xEV Promote The Development of LIB Cathode Materials

*Mr. Li Jianzhong, CEO*

*Beijing Easpring Material Technology Co. Ltd.*

### 11:45 Recent Development on Precursor Materials

- Overview of precursor materials market
- Current Zoomwe R&D effort and collaboration
- Supply chain diversification of raw materials

*Mr. Haohan Wu, Senior Consultant*

*Zoomwe Science & Technology Co., Ltd.*

### 12:15 New Generation Road-Ready Electric Vehicle - Automotive Technologies Marking New Standards

12:45 Discussion followed Networking Luncheon Reception

### 14:00 ASEAN Electrification Outlook: Stepping into the EV Era

- Update on hybrid & EV car sales / Snapshot of the ASEAN EVs
- Latest view on EV key drivers & challenges
- Government policy on EV in each ASEAN country
- Forecast of ASEAN's electrified car demand
- Cost parity of BEV & conventional engine vehicles

*Mr. Kunat Tharasrisuthi, Senior Analyst,  
Asia Powertrain Forecast*

*LMC Automotive (Thailand) Company Ltd*

### Regional Electric Vehicle (EV) Development in SE Asia - Policy, Adoption Roadmap, Charging Infrastructure, etc

#### 14:30 Thailand

*Dr. Pongpan Kaewtatip, Vice President  
Electric Vehicle Association of Thailand (EVAT)*

#### 15:00 Philippines

*Senior Representative  
Electric Vehicle Association of the Philippines (EVAP)*

15:30 Refreshments & Networking Reception

### 16:00 Vietnam

*Mr. Tran Tuan Anh, Manager  
– Product Planning & Training Department  
Mitsubishi Motors Vietnam*

### 16:30 Indonesia

### 17:00 Electrification of Two Wheelers – Challenges & Chances in Southeast Asia

- Electrification of two wheelers in ASEAN
- Macro trends of the motorcycle in ASEAN with focus on electrification
- Chances and challenges

*Mr. Amine Kamel, Head Business*

*Development Automotive Electronics*

*Robert Bosch (SEA) Pte Ltd*

17:30 End of Day One

## Day 2 - 26 Apr 2018, Thursday

09:00 Chairman's Welcome & Remarks

### 09:05 Urban Mobility – Large-Scale EV Car-Sharing Programme in Singapore

- Deployment of a 100% EV car sharing programme in Singapore. Objectives and challenges
- How can car sharing reduce the number of cars in the streets?
- Building an electric charging infrastructure

*Mr. Franck Vitte*

*Managing Director (Asia and Middle East)*

*BlueSG*

Program details published herein are confirmed as at 14/03/2018.  
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## 09:35 EV Charging Infrastructure Present & Future

- E-mobility is a huge potential business for utility companies
- Open Standards are the way to go for EV charging
- EV Charging must be future-proofed for emerging EV trends

*Mr. Terence Siew, Regional Manager, Asia Greenlots*

## 10:05 Combined Charging Standard (CCS) & Outline to Applications

- Plug & Charge allowing encrypted communication protocols for secured payments
- V2G grid balancing allowing control up to individual car level, how much power each car will receive or return back to the grid
- Interoperability & testing equipment to make sure that the EV & EVSE (Charger) is working according to the ISO 15118 protocols
- Future applications like wireless charging, Pantograph, HPC to 500kW

*Mr. Jacques Borremans, Representative, CharIN Coordination Office - ASIA (Asia Managing Director) Charging Interface Initiative e. V. (CharIN e. V.)*

10:35 Refreshments & Networking Reception

## 11:05 Second-Life Batteries & Applications

| Per Person Fee for Conference: | (USD)   |
|--------------------------------|---------|
| Regular Fee for 1              | 1495.00 |
| Group Fee for 3 or more        | 1195.00 |

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## 11:35 Application of ESS & Renewable Energy + Opportunity with Climate Change

- Renewable energy vision of Korea & its hurdles
- Incentives & policies for ESS in Korea
- ESS & applications in Korea

*Mr. Junill Yoon, Senior Manager, Corporate Strategy Office Hyosung Corporation (HQ)*

## 12:05 Understanding the Value of Energy Storage Systems (ESS) in Thailand & South East Asia

- Potential of ESS market trends & future outlook
- Analyse the appropriate design, operation, configuration & commercial aspects utilising advanced energy management systems (EMS) in hybridised energy supply and storage facilities
- Upcoming ESS opportunities in Thailand

*Mr. Wilhelm van Butselaar, Area Manager Energy Storage and Integration Wartsila Singapore Pte Ltd*

12:40 Final Discussion & Networking Luncheon

14:00 End of Conference

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## “Towards Exponential Growth – Lithium-ion Batteries in Mobility & Energy Storage”

From earth to energy, Lithium, Nickel, Cobalt and other battery metals have shot up in prices and demand, while investment kept pouring in to meet the emergence of the green mobility solution. Riding this Electric Vehicle (EV) wave, activities pace up through the supply chain, from metals mining, cathode & battery production, automotive technologies, second-life battery and etc.

Battery chemistry and production technologies is undergoing steep learning curve with KPI to increase charging speed, with cost and weight reduced. Also, investors and battery companies are laying out geographical plans for their production sites in Asia and Europe.

While the region is trailing behind Japan, China and the US in developing charging infrastructure and offering tax incentives for consumers and manufacturers, the potential of Southeast Asian battery and EV market is promising and yet to be realized. Framework on incentives and mandates are in development for battery and EV production/ adoption.

**Thailand** is leading other Southeast Asian countries in providing incentives for consumers, investors and production to boost its battery and EV industry. Recently, Nissan Motors have announced their consideration for EV and batteries production in Thailand, aiming for export potential to the rest of Southeast Asia. **Malaysia** is getting on the speed wagon with Chinese manufacturers to speed up adoption of EV, and **Indonesia** has announced plans to ban sales of petrol and diesel cars by 2040, and aims for market share of EV to reach 20% by 2025.

Also on energy storage, EGAT, Electricity Generating Authority of Thailand, sets out new policy promoting battery energy storage. Recognizing that renewable energy is still not able to generate stable supply of electricity to fulfil continued power demand in the Kingdom, battery energy storage becomes the significant auxiliary and an important key which could complement renewable energy usage.

### Key Highlights of CMT’s Battery, EV & Storage:

- Strategic roadmap to realise battery & EV foundations in Asia Pacific
- Thailand’s booster roadmap to groom and grow domestic batteries & EVs industry
- Insight (by country) on updates on EVs (BEVs & Hybrids) policy, adoption, charging infrastructure, production & etc
- Development in batteries cathode materials supply and collaboration opportunities
- Breakthrough in lithium-ion battery charging performance & cost reduction
- Next-Gen EV - automotive technologies setting new standards
- Demand for Charging Infrastructure to support EV growth
- Adoption of energy storage systems for greater battery penetration

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