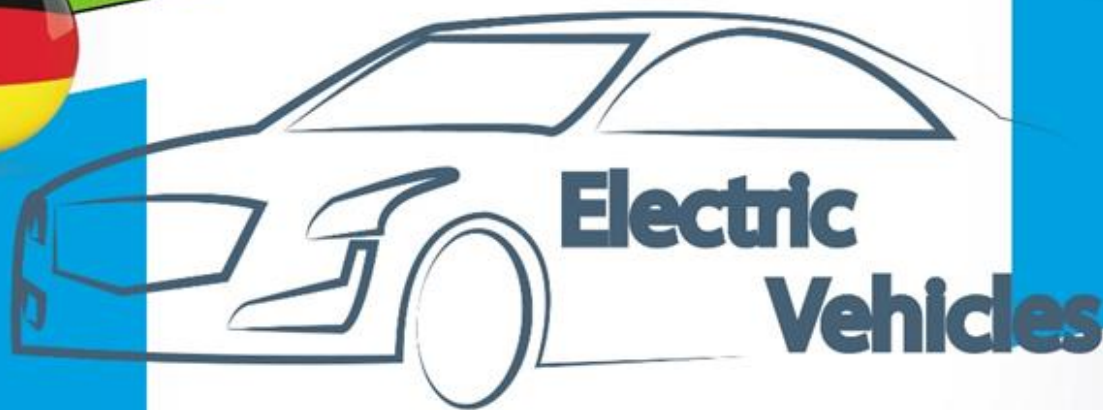


Business-Government Collaborative Forum

# Electric Vehicles Forum in Thailand/ April 26-28, 2017

Next-generation Vehicle Innovation Strategies:  
International PPP Partnership for Local Capacity Development



April 26, 2017

'Knowledge Sharing on German Experiences on Development of  
EV and Implication for Thailand'

April 27-28, 2017

'EV Stakeholders Meeting'

Grand Mercure Bangkok Fortune

Organized by



Fraunhofer

Co-organized by



In close cooperation with



THAILAND  
AUTOMOTIVE  
INSTITUTE  
สถาบันยานยนต์

## Electric Vehicles Forum in Thailand/ April 26-28, 2017

*Next-generation Vehicle Innovation Strategies: International PPP Partnership for Local Capacity Development*

**Grand Mercure Bangkok Fortune**

Organizers:

**National Science Technology and Innovation Policy Office, Thailand**

**Fraunhofer Institute for Factory Operation and Automation IFF, Germany**

Co-organizer:

**Science, Technology and Innovation Policy Institute, Thailand**



<http://www.sti.or.th/ev2017>

### **Background & Scope**

Thai automotive policies have focused on electric vehicles (EVs) and pursued the same supply chain localization strategies. These policies and strategies will result in partial success in the context of uncertain and complex next generation vehicle industry.

National Science Technology and Innovation Policy Office, Thailand and Fraunhofer Institute for Factory Operation and Automation IFF will organize Electric Vehicles Forum in Thailand. This forum will promote communications among stakeholders', knowledge and technological exchange and inspire for future collaborations between Thailand and other overseas countries.

The forum will explore alternative innovation direction and articulate specific policy recommendations to build local capacities and hence accommodate the next generation vehicle industries in Thailand.

### **Purpose**

- To share information amongst stakeholders.
- Collaboration and exchange of next generation vehicle technologies.
- Discussion on strategic implementation plan: funding for action plans, potential bottlenecks, task force team, leading to roadmap in the future
- Endorsing potential future action plans and milestones.

## **Outline of Electric Vehicles Forum in Thailand**

**Date:** **April 26, 2017**  
**Venue:** Platinum Hall, 3<sup>rd</sup> floor, Grand Mercure Bangkok Fortune  
[www.grandmercurebangkokfortune.com](http://www.grandmercurebangkokfortune.com)  
**Capacity:** Opening remarks / Keynote speech / Special session / Invited session /100 persons  
**Admission:** **Free of charge**  
**Organizers:** National Science Technology and Innovation Policy Office, Thailand  
Fraunhofer Institute for Factory Operation and Automation IFF  
**Targeted Attendees:**  
\* Engineers involved in infrastructure development  
\* Engineers involved in electric vehicles production  
\* Engineers involved in energy and safety  
\* Engineers involved in ICT, electronics  
\* Managers of electric vehicles manufacturing  
\* Government administration  
**Language:** English

**Date:** **April 27-28, 2017**  
**Venue:** April 27: Silver Room, Basement floor, Grand Mercure Bangkok Fortune  
April 28: Fortune Room, 3<sup>rd</sup> Floor, Grand Mercure Bangkok Fortune  
[www.grandmercurebangkokfortune.com](http://www.grandmercurebangkokfortune.com)  
**Capacity:** Special session / Invited session /30 persons  
**Admission:** **Free of charge**  
**Organizers:** National Science Technology and Innovation Policy Office, Thailand  
Fraunhofer Institute for Factory Operation and Automation IFF  
**Targeted Attendees:**  
\* Engineers involved in infrastructure development  
\* Engineers involved in electric vehicles production  
\* Engineers involved in energy and safety  
\* Engineers involved in ICT, electronics  
\* Managers of electric vehicles manufacturing  
\* Government administration, Policy Makers  
**Language:** English

**Note: All the attendees of April 27-28, will be invited by organizers of this project.**

Business-Government Collaborative Forum

## Electric Vehicles Forum in Thailand/ April 26-28, 2017

*Next-generation Vehicle Innovation Strategies: International PPP Partnership for Local Capacity Development*

**Grand Mercure Bangkok Fortune**

Organizers:

National Science Technology and Innovation Policy Office, Thailand

Fraunhofer Institute for Factory Operation and Automation IFF

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### **Agenda April 26, 2017**

## **"Knowledge sharing on German Experiences on Development of EV and Implication for Thailand"**

### **April 26, 2017**

Time: 9.00 - 16.30

Location: Platinum Hall, 3<sup>rd</sup> floor, Grand Mercure Bangkok Fortune

### **Registration**

8.30 - 9.00 Registration of Participants

### **9.00 - 9.15 Welcome and Opening Remarks**

Dr. Kanchana Wanichakorn, Assistant Secretary General, National Science Technology and Innovation Policy Office, Thailand

### **9.15 - 9.30 Introduction of the Fraunhofer EV Team (IFF, IAO, IFAM)**

Dipl.-Ing. Ralf Opierzynski, Fraunhofer Institute for Factory Operation and Automation IFF, Germany

### **9.30 -11.00 EV Core Technologies and Fraunhofer System Research for Electro Mobility (FSEM)**

Dipl.-Ing. Felix Horch, Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAM, Germany

11.00 -11.20 Coffee Break

- 11.20 -12.50 **Energy Systems Analysis and Electric Mobility within Energy Systems**  
Dr.-Ing. Stefan Lösch, Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAM, Germany
- 12.50 -14.00 Lunch
- 14.00 -15.30 **E-Mobility Infrastructure, Control Center and Energy Management Integration**  
Dr.-Ing. Andre Naumann, Fraunhofer Institute for Factory Operation and Automation IFF, Germany
- 15.30 -15.45 Coffee Break
- 15.45 -16.00 **EV Mobility Concepts**  
Dr.-Ing. Sabine Wagner, Fraunhofer Institute for Industrial Engineering IAO, Germany
- 15.45 -16.30 **Summary / Closing**  
Dipl.-Ing. Ralf Opierzynski, Fraunhofer Institute for Factory Operation and Automation IFF, Germany

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## Agenda April 27-28, 2017 “EV Stakeholders Meeting”

### April 27, 2017

Time: 9.00 - 17.00

Location: Silver room, Basement floor, Grand Mercure Bangkok Fortune

### Registration

- 8.30-9.00 Registration of Participants
- 9.00-11.00 **Thailand’s Next-generation Vehicle Innovation Strategies: Alternative Direction and Policy Recommendations (working paper)**  
Prof.Dr.Jeong Hyop Lee, Senior Advisor’s Science Technology and Innovation Policy Institute (STIPI), Thailand  
  - Receive the feedback from Fraunhofer Germany and Thai stakeholders.
- 11.00-11.20 Coffee Break
- 11.20-12.20 **Thailand’s Next-generation Vehicle Innovation Strategies: Alternative Direction and Policy Recommendations (working paper) (CONT’)**

Prof.Dr.Jeong Hyop Lee, Senior Advisor's STIPI, Thailand

- Receive the feedback from Fraunhofer Germany and Thai stakeholders.

12.20-13.30 Lunch

*Current status and policy in 4 strategic areas: Infrastructure, Production Capacity, Energy, and Connected Vehicles.*

13.30-14.10 **Infrastructure**

Dr.Atsawin Salee, Researcher, PTT Public Company Limited

Moderated by: Prof.Dr.Jeong Hyop Lee, STIPI, Thailand

14.10-14.55 **Thailand Automotive Situation and Master Plan**

Ms.Rachanida Nitipathanapirak, Deputy Director, Thailand Automotive Institute (TAI)

Moderated by: Prof.Dr.Jeong Hyop Lee, STIPI, Thailand

14.55-15.15 Coffee Break

15.15-16.00 **Energy Sources for Electric Vehicles**

Dr.Pimpa Limthongkul, Lab Head, Electrochemical Material and System Lab, Materials for Energy Research Unit, NSTDA

Moderated by: Prof.Dr.Jeong Hyop Lee, STIPI, Thailand

16.00-16.45 **Connected Vehicles (Autonomous driving, ICT, electronics)**

Dr.Apinun Tunpan, Chief of Design, SMART-Sense Industrial Design Co.,Ltd

Moderated by: Prof.Dr.Jeong Hyop Lee, STIPI, Thailand

16.45 -17.00 **Summary / Closing**

Prof.Dr.Jeong Hyop Lee, STIPI, Thailand

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**April 28, 2017**

Time: 9.00 - 17.00

Location: Fortune room, 3<sup>rd</sup> floor, Grand Mercure Bangkok Fortune

**Registration**

8.30-9.00 Registration of Participants

9.00-11.00 **Win-win partnership model**

(Commercialization such as future industry creation partnership in ASEAN market).

Fraunhofer EV Team (IFF, IAO, IFAM) / Thai EV Core Team / Stakeholders

Moderated by: Prof.Dr.Jeong Hyop Lee, STIPI, Thailand

- 11.00-11.20 Coffee break
- 11.20-12.00 **Win-win partnership model (CONT')**  
(Commercialization such as future industry creation partnership in ASEAN market).  
Fraunhofer EV Team (IFF, IAO, IFAM) / Thai EV Core Team / Stakeholders  
Moderated by: Prof.Dr.Jeong Hyop Lee, STIPI, Thailand
- 12.00-13.30 Lunch
- 13.30-14.45 **Discussion on action plan and milestones.**  
(Strategic implementation plan: funding for action plans, potential bottlenecks, Task force team, leading to roadmap in the future)  
Fraunhofer EV Team (IFF, IAO, IFAM) / Thai EV Core Team / Stakeholders  
Moderated by: Prof.Dr.Jeong Hyop Lee, STIPI, Thailand
- 14.45-15.00 Coffee Break
- 15.00-16.45 **Discussion on action plan and milestones. (CONT')**  
(Strategic implementation plan: funding for action plans, potential bottlenecks, Task force team, leading to roadmap in the future)  
Fraunhofer EV Team (IFF, IAO, IFAM) / Thai EV Core Team / Stakeholders  
Moderated by: Prof.Dr.Jeong Hyop Lee, STIPI, Thailand
- 16.45 -17.00 **Summary / Closing**  
Prof.Dr.Jeong Hyop Lee, STIPI, Thailand
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