

## Press Release

### TAI collaborates with Delta to develop SME and welcome industrial 4.0 to Thai electric vehicle production base

Date: 09.00-14.30 January 25, 2017

Venue: Delta Electronics (Thailand) PLC. Bangpoo Industrial Estate

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There will be the transformation of automotive new technology from engine driven by fossil fuel to electricity. Thus, being electric vehicle production base, Thai operator must not have only knowledge in advanced technology but also high skilled human resource in production. Thailand Automotive Institute (TAI) collaborates with Delta Electronics Thailand PCL to organize “Future transformation of auto parts production industry to enhance efficiency of production” seminar for over 70 SME, medium and large auto parts operators in the project of the Electric Vehicle Technology and Innovation Learning Center which is supported by Office of Permanent Secretary. Objectives of this seminar are to pass on knowledge and increase capability of Thai auto parts manufacturer as well as collaboration to open the center and charging station in mid-year 2017.

Nowadays, auto parts industry generates revenue to Thailand for 0.5-0.6 trillion THB or one-fifth of total value of Thai automotive industry. It indicates that this industry is significant to national economy and it has been continue developed. There are plenty of exports of both automotive and auto parts since Thailand is the major production base of export in this region from investment of many leading automotive manufacturers. Both tendency of the world market and policy of Thai government promote electric vehicle for more efficiency and environmentally-friendly. As a consequence, this transformation will effect to auto parts market, variously; for example, an internal combustion engine vehicle consists of more parts than electric vehicle; therefore, the demand of some parts such as muffler, fuel supply system, gas tank and transmission will decrease in the future. It is forecasted that vehicle driven by electricity will play a major role in 2020 and onwards.

Mr. Vichai Jirathiyut, President, Thailand Automotive Institute (TAI), reveals that the objective of establishment the Electric Vehicle Technology and Innovation Learning Center (Hybrid, Plug-in hybrid, Battery EV and Fuel cell) is being the knowledge center of electric vehicle technology for operator, government and public. It consists of 3 major activities: 1) learning of electric vehicle and auto parts technology; including, EV charging station 2) gathering data of electric vehicle parts manufacture database, analyzing data and preparing for summary report and 3). seminar and public relation of automotive technology. At present, auto parts maker focus on increasing efficiency of production management, cutting cost and environmentally-friendly which may not inadequate. They need to improve the production process that conforms to modern technology of car maker, as well. For today

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seminar, the co-organizing seminar with Delta, in the topic of “Future transformation of auto parts production industry to enhance efficiency of production”, is an activity that passes on data and knowledge to part makers in Thailand; therefore, they will envision both theory and practice in all aspects as well as preparation; for example, condition and tendency of electric vehicle and parts markets in Thailand and ASEAN, human resource, innovation and production technology development to increase efficiency of Thai auto parts manufacturing. In this regard, there are lectures from savants and site visit at Delta plant which is a world leading electronics and EV charger manufacturer.

Mr. Hsieh Shen-yen, President, Delta Electronics Thailand PCL says that, for industry 4.0, the key point of future production process is Industrial Automation. It is a trend of business development industry that moves to modernity, quality, efficiency and economy. Automatic system, robot and digital IoT are able to work along human being and generate more efficiency of output. They consist of 1. Automation Machine 2. Factory Automation and 3. Process Automation. All units of production system are installed with networking system and sensor chip to communicate and exchange data. Machine, robot, system and factory are all connected in form of Internet of Things (IoT). As a result, this shows, controls and manages all production processes, efficiently. Advantages of this industrial automation are increasing productivity, reducing cost and handling heavy, repeated, risk, accurate task for human being. It also eliminates error, increases efficiency and quality of product as well as economy. Additionally, it can boost capacity, enhance industry quality standard, fulfill and supply demand of different segments, while it maintains high efficiency of production as same as mass production for automobile or consumer product.

TAI collaborates with Delta for the project to develop SME and welcomes industry 4.0 to Thai electric vehicle production base. Automotive industry is one of major industries that will be enhanced. The project consists of 1. Seminar to pass on knowledge to SME or auto parts operator in Thailand. There were 2 seminars held on December 16th, 2016 and January 25th, 2017. The automotive industry tendency in ASEAN, automotive industry and production 4.0, the impact and preparation of auto parts operator with current condition, how to increase skill to human resource in automotive industry, case study of automatic system, robot system and energy saving in production process to prepare for entering to automotive industry and production 4.0 are all contents in those seminars. 2. The launch of Electric Vehicle Technology and Innovation Learning Center and charging station at Thailand Automotive Institute, Bangpu. This will generate benefits to SME operator, auto parts maker and public to envision the technology along with exchange knowledge. This center will be opened in mid-year 2017.

### For more information

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