

Review October Automotive Roundtable in Beijing, 2018 - New Energy Vehicles Development-

Participants at October Automotive Roundtable in Beijing got insights from experts of manufacturing industry and universities on the development of new energy vehicles in China regarding the future trends, latest technologies and their impacts on the automotive industry.



Mr. Mats Harborn, Executive Director, Scania China Strategic Office, held the speech on **“Roadmaps for Sustainable Transportation System”**. Firstly, he pointed out international freight and related CO2 emissions by corridor – China counts and showed the graph of a sustainable transport and Scania’s approach towards it. Further on, he explained the trends in Chinese transportation including consolidation, digitalization and electrification. In the future the fuel cell will potentially through hydrogen carry as much energy as diesel today. In this regard that there is no silver bullet yet which means not the one and only energy resource to be used as a solution to fight against urban pollution but rather several energy resources shall be combined wisely in

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dependence of their energy efficiency levels and maximize use of sustainable bio-fuel today! And Mr. Mats Harborn strengthened the conclusion that we should embrace all ways that can increase transport efficiency.



Mr. Rolf Weinowski, President & CEO, FEV Powertrain Technology Co., Ltd. presented a comprehensive overview on **“The Future of Mobility: Mixture of Smart Phone, Moving Lounge and Supermarket”**.

As start, Mr. Weinowski raised the question about the three most powerful inventions of the industrialization time – the Car, Internet and Cellphone of which the cell phone is not an evolution but a revolution. Rolf also pointed out that we are living in a disruptive period with many changes and opportunities. Then he addressed how the car will look like in the future: CASED is the concept and these influences the overall vehicle styling and architecture. Then he shared his understanding on these influences on car manufacturing and private sectors. In summary he told the audience that new player will be on the stage and the winners will be those companies which quickly adapt their business model, technology portfolio and attractiveness for employees



Dr. Shizhong Li, Professor & Deputy Director of the Institute of New Energy Technology, Tsinghua University held the speech on “**Hydrogen from Bioethanol for FCV**”. Prof. Li introduced how to phase out gasoline and diesel-powered cars as a priority for many governments globally. Currently, almost all the hydrogen produced is from non-renewable fossil sources and ethanol reforming is the most promising option for hydrogen production from renewable resources. Further on, he explained the main reactions of ethanol reforming, the advantage on catalyst and reactor for ethanol reforming and PEMFC stack. Prof. Li also made the comparison of e-bio fuel bus and diesel bus. He pointed out that 50% of fibrous residues (1.28t) for boiler fuel, 50% (1.28t) to feed 1 head of cattle, and nutrition report is as the following. The production of 10,000t ethanol corresponds to \$ 59.4 million in economic production. Silage-like fermentation for ethanol production without bioreactors. Moreover, the combination of traditional agriculture and future hydrogen economy to realize sustainable development and it always seems impossible until it's done.



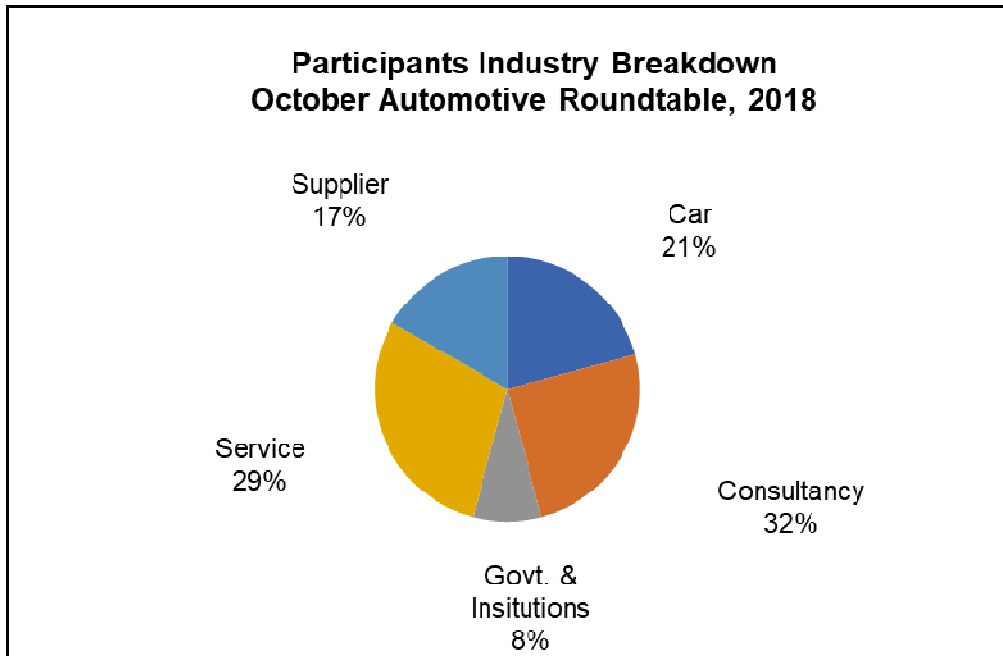
Panel Discussion speakers from the left to the right:
Mr. Mats Harborn, Executive Director, Scania China Strategic Office & President European Union Chamber of Commerce in China
Mr. Rolf Weinowski, President & CEO, FEV Powertrain Technology Co., Ltd.
Dr. Shizhong Li, Professor & Deputy Director of the Institute of New Energy Technology, Tsinghua University
Moderator: Mr. Ingo Neumann, Senior Consultant, UNITY Business Consulting Co., Ltd.



Mr. Ingo Neumann, Senior Consultant, UNITY Business Consulting Co., Ltd. as the moderator chaired the whole night and raised many interesting questions during the panel discussion with deep insights shared by the panel guest speakers.



Industry Breakdown:



Companies incl.:

Abacare Beijing
 Amaris Technology Consulting Co., Ltd.
 ATCS(Beijing) Technology Consulting Co. Ltd
 AUMUND China Ltd.
 Beijing Benz Automobile Corporation
 BEITEN BURKHARDT
 Carl Duisberg Training Center Beijing
 China-Lead
 Detecon Consulting Deutsche Telekom Group
 Ecovis
 FEV Powertrain Technology Co., Ltd.
 Gavekal Dragonomics
 Haefele
 Henkel
 Ing.-Büro WSE Dipl.-inform.(FH) Thomas Wolter
 in-tech Automotive Engineering (Shenyang) Co.,Ltd.
 LSH Auto (China) Management Co., Ltd.
 MAGNA STEYR AUTOMOTIVE TECHNOLOGY (SHANGHAI) LTD.
 Marianne Friese Consulting GmbH



NavInfo Co., Ltd.
Pangio Consulting Ltd.
Tsinghua University
Santa Fe Relocation Services
Scania China Strategic Office
UNITY Business Consulting Co., Ltd.
Volkswagen
Zielpuls (Shanghai) Co., Ltd
ZR Trust company