



# 上海论坛 2012 学术简报

## Academic Bulletin of Shanghai Forum 2012

### Renewable Energy: Enlightening the Asian Green Development Roadmap

May 26, 2012

In the afternoon of 26<sup>th</sup> May, “Renewable Energy: Enlightening the Asian Green Development Roadmap” Shanghai Forum Roundtable was held in the Xijiao State Guest Hotel. The attending guests include Lewis M Fulton, Chen Xinhua, Qiantu Nguyen and Zhang Zhongxiang.

Mr. Lewis M Fulton from IEA made the first keynote speech. He said that some revolutions on technology must be made if we want to achieve the “low-carbon society”. Today, China's net oil import demand remains strong, which is closely related with the development of China's auto market. The 1.3 billion population and 230 million cars with the larger growth potential show the great demand for oil of China in the future, along with the big influence on the CO<sub>2</sub> emission. Considering the carbon emission, the development of electric vehicles will be an important method for us to achieve the “low-carbon” situation. China aims to get the 2 million PHEV target in the year of 2020, as well as the other “ambitious target” countries. If these countries and regions could achieve their goals, the world of electric vehicles will be in the further step of mass production and market.

Professor Hu Zhaoguang took the smart grid as a starting point to make a speech on the bottlenecks and challenges of China's economic growth. He thought the electricity is the key point in China's economic growth. China is now facing a lot of challenges such as the large energy demand, the risk of oil importing and the big share of coal. To deal with this situation, more researches should be done on the electricity emission reduction and energy saving with the starting point of smart grid. It is predicted that by 2020 the establishment of the smart grid will contribute to one-third of emissions of carbon dioxide removal. Government policy will play a key

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role in the construction process of the smart grid.

Mr. Chen Xinhua from BP China said, the new energy research should be focused not only on the point level, such as on the new energy technology research, but also on the line and surface level, especially on the combination of the three and on promoting the comprehensive development of renewable energy. In the development, the interference and uncertainties should also be noticed.

The second half of the meeting was on the topic "Accelerating the Industrialization of EV: Market Cultivation, Technology Choice and Policy Support". Prof. Wu LiBo of Fudan University was the chair.

Prof. Kim DongSub, Head of Innovation Department of SK Telecom, said that at present the electric car development has a lot of uncertainty, especially in battery technology development. The cost of the batteries has been largely decreased and the safety problems have been greatly improved, but there are still a lot of space to improve. The battery technology is the key to the development of electric car.

Prof. Wang ZiDong also talked about the reliability and safety of the electric car battery. He introduced some battery security cases. Wang ZiDong argues the energy control of Chinese car companies should learn from advanced enterprises in Japan and South Korea.

Prof. Fu GangZhan talked about "The goal and path of China's energy saving and new energy vehicles industrialization". He thinks that we should pay attention to two points in China's supply of electric cars. One is production permission, the other is the supply bottleneck. In the 2015 years, public and commercial cars will be the electric car market's main substrate, and short small cars will become the transition point of the market demand.

Next, Prof. Min HaiTao shared his view of low carbon car development. Prof. Min thinks that firstly low carbon car is necessary, and secondly, universities should be prepared in the development process of low carbon cars, including providing related courses, talent cultivation, the school-enterprise cooperation, etc.



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Prof. Sun LiQing talked about problems in the process of development of new energy vehicles. He said it is difficult to start a new energy vehicle market, for the market demand varies greatly. So enterprise innovation should be enhanced, and there is still large space for government actions. In the new energy vehicles promotion process, the government should play its important role.

Finally, Mr. Liu MingHui and Prof. Lin Yi shared their view about the topic from the perspective of new energy vehicles manufacturers. They think that the whole industry chain of new energy vehicles is not developed, and the technology will be the key to breakthrough. In the future development planning, the electric car technology development is the power of the market penetration.

At the end of the meeting, experts and scholars had a heated discussion. Questions discussed include the current electric car promotion mode, the government's role in the electric car development process, and the electric car's future prospects. Experts have reached an agreement that the government should become the driving force of electric car market for preliminary development, and 2012 will become the first year for great development of electric cars.