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China's New-energy Vehicle Industry

FOURIN presents an up-to-the-minute survey on China's new-energy vehicle industry

■ Size: A4, 200 pages ■ Publication Date: Mar. 2011 ■ Price: 120,000 JPY (free shipping but VAT for Japan orders)

Invaluable Intelligence and Data to Support Any Automotive Business in China

FOURIN's information gathering and research activity in China began in 1989. At that time China's annual vehicle production stood at only 580 thousand units. With more than 20 years of experience, FOURIN can provide in-depth reports on the Chinese automotive industry which you cannot find anywhere else.

While the world's attention flows towards China's automotive industry, where vehicle production and sales have become number one, the Chinese government has defined the new-energy vehicle industry as a national strategic industry, for which it looks to develop policies to foster the emerging sector ahead of other countries in order to acquire a leading hand in forming the next generation automotive industry.

For reasons behind China's government intention, it is considered that there is less resistance for the dissemination of new-energy vehicles since China is in the initial stage of motorization and a 20 million-unit two-wheeler electric vehicle market is already forming. Moreover, besides the country has abundant rare

metal reserves which are necessary for electric vehicles, the new-energy vehicle industry is expected to bring China a great opportunity to narrow the technology gap with automotive powerhouse countries while hybrid technology is reaching a good level of maturity.

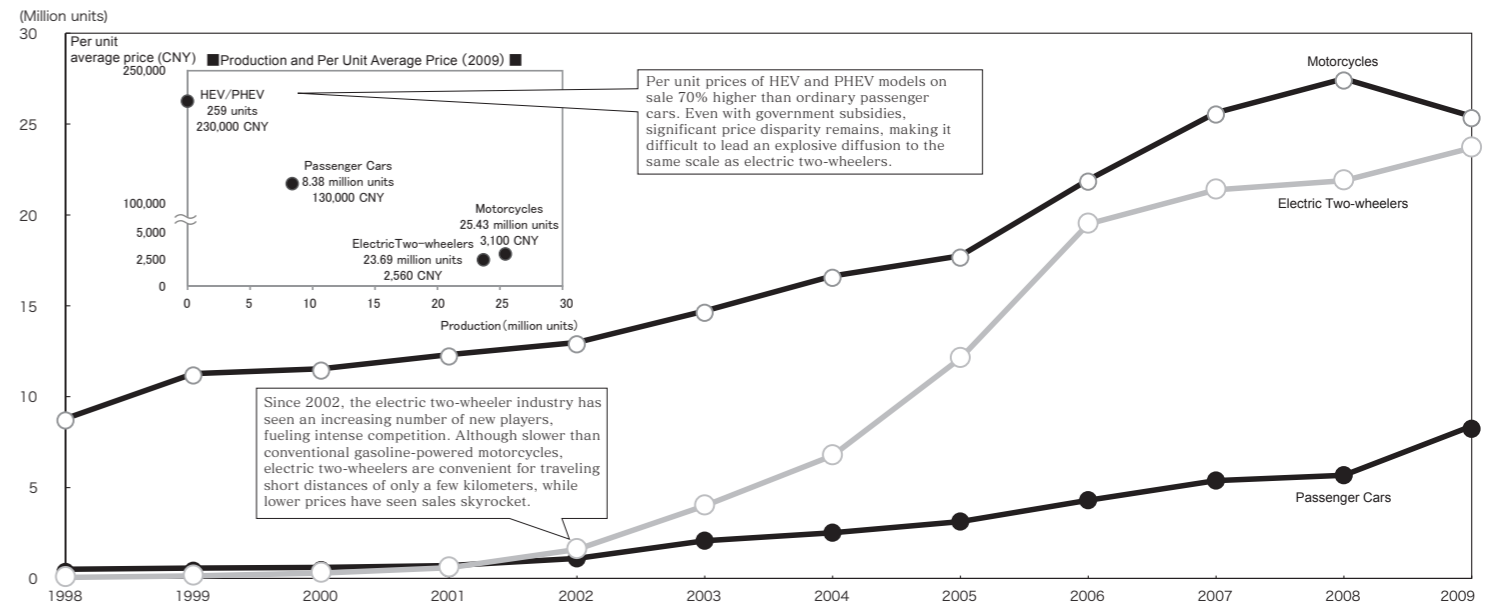
As such, Chinese automakers aim to surpass foreign rivals by concentrating resources on electric vehicles which require relatively lower technology level. Still, for popularizing electric vehicles ahead of advanced countries, it is necessary to identify currently existing major technological obstacles. Chinese automakers and suppliers still lack refining technology for materials required for lithium-ion rechargeable batteries, core technology for separators which

accounts for 20-30% of total battery cost and small drive-type motor technology to name a few.

Meanwhile, please note that the definition of the new-energy vehicle used in this publication refers to vehicles using alternative fuel technologies and electrification technologies and differs from that of the Chinese government in which only plug-in hybrid electric vehicles, electric vehicles and fuel-cell electric vehicles are included.

It is firmly believed that this publication will serve as an invaluable source of information to bring a further understanding concerning the Chinese government's policies and Chinese automakers' business strategies of the new-energy vehicle industry.

China: Potential Vehicle Electrification Shift Based on Diffusion of Electric Two-wheelers



Note: Per unit prices for electric two-wheelers and conventional motorcycles adopt average export prices in 2009. Passenger car, HEV and PHEV per unit prices are weighted average calculated using retail prices in 2009 based on passenger car production excluding utility vehicles. HEV and PHEV production uses volume of the Toyota Prius and BYD F3DM only.
 (Compiled by FOURIN using data from CAAM and the China Bicycle Association)

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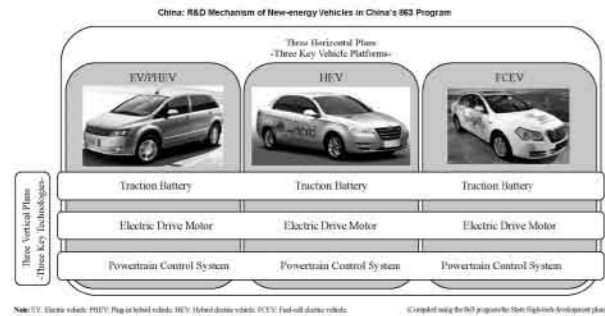
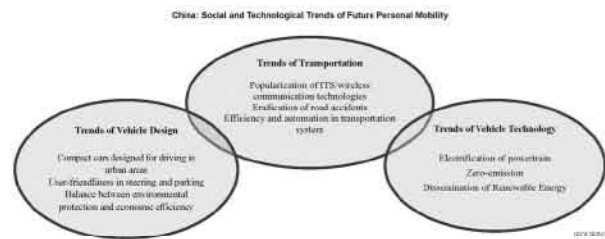
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2. Growth Strategy of New-Energy Vehicle Industry: Acceleration of Drafting Technology Standards and Policies to Establish It as a Pillar Industry

China has been initiating the industrialization of new-energy vehicles since the 1990s after China turned to be a net-importer of crude oil in 1996. The development of new-energy vehicles began with the implementation of the 9th five-year plan (1990-1995) in which China mentioned its focus on technological development of hybrid electric vehicles (HEV) and combustion alternative fuel-vehicles as well as the launch of research on electric vehicles (EV) by disassembling imported EVs.



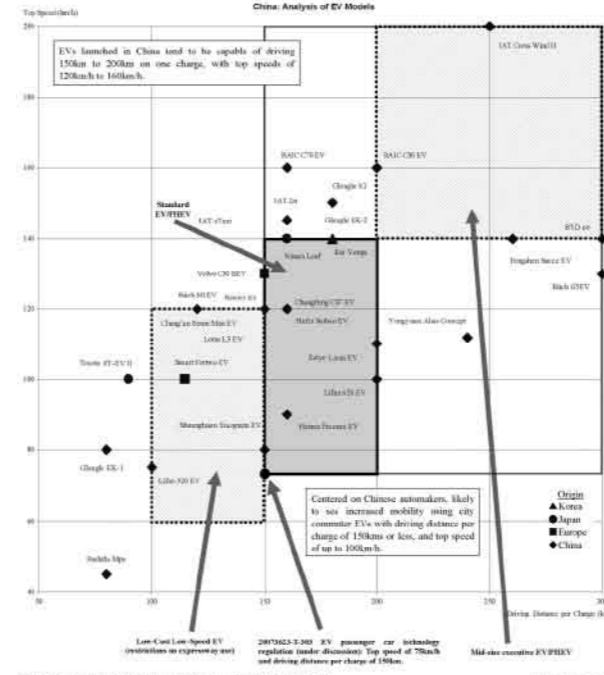
1. Beijing: Supporting Beijing-based Automakers' New-energy Vehicle Business, Aims for 150,000-unit Production in 2015

The Beijing municipal government aims to foster the new-energy vehicle industry by purchasing new-energy vehicles manufactured by Beijing-based automakers to use them as official cars and public fleets whose demands are bigger compared to other administrative units.

Table with 2 columns: Basic Information, New-energy Vehicle Policies, Deployment of Charging Infrastructure and Status of Resource Development. Includes details on administrative units, vehicle production, and government support.

1. Highly Anticipated Potential of the Chinese Market at the Dawn of the New-energy Vehicle Market

EV industry to be nurtured as one of pillar industries. The 12th Five-Year Plan (2011-15) of China, which maps the upcoming path for the nation's economic growth, highlighted electric vehicles (EV) as one strategic industry sector to inclusion more or less.



5. Shanghai Waopai: Announced Nationally Uniform Price as Part of its Marketing Strategy and Launched the Fengjue Brand Electric Two-wheelers

Shanghai Waopai Electric Bicycles Co., Ltd. (hereinafter referred to as Shanghai Waopai) which was founded in 2004 and has its headquarters in Linhai, Zhejiang, and engages in production and sales of the Waopai brand electric two-wheelers (E2W). The company processes batteries from Linhai Tianpu Power Supply and other basic parts from Jiangsu Tianpu Supply, Taizhou Huangyan Sankela Printing and Molding Factory and Dazhong Vehicle Refit Factory.

Shanghai Waopai: Company Outline. Includes company details, current trends, company history, and major models.

Shanghai Waopai: List of Major Models. Table with columns for Model Name, Dimensions, Top Speed, Charging Range, and Max. Payload.