Survey on Development of Renewable Energy Car Industry

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Abstract. With the continuous development of economy and progress of social, people for energy use more and more widely in the direction of new energy. In the use of new energy, automobile industry has continued to explore, new energy automobile industry mainly refers to the use of new fuel and power energy, now advanced technology on making the new energy automotive industry can get greater development. The automotive industry is an important pillar industry of the national economy and plays an important role in the national economic and social development. his paper analyzed definition and classification of new energy vehicles, the development of automobile industry and its impact on the environment to maintain stable economic growth and improve people's living standards have an important strategic meaningful conclusions.

Keywords: new energy, automobile industry, environmental pressures, strategic.

1 Introduction

Challenges the current energy, environmental issues, in response to the increasingly prominent contradiction between supply and demand of fuel and environmental pollution problems, major car producing countries in the world regard the development of new energy vehicles as improving industrial competitiveness, major strategic initiatives to maintain sustainable economic and social development, accelerate technology development and industrialization, while vigorously develop and promote the use of energy-saving technologies cars. Development and application of new energy vehicles have become the overall trend of the world automobile industry, the automobile industry has become a new growth point. New energy vehicles represent the future direction of the automotive industry over the next decade will usher in the global automotive industry transformation and upgrading of important strategic opportunities. Our current car production scale ranks first in the world, is expected to continue growing in the coming period, we must seize the opportunity, seize the deployment, accelerating the cultivation and development of energy-saving and new energy automotive industry, promote the optimization and
upgrading the automobile industry, the automotive industry to achieve by country changes to the automotive industry powerhouse [1].

The significance of the development of new energy vehicles are:

On the one hand, the development of new energy vehicles is an important measure to alleviate the shortage of oil. In recent years, the rapid development of China's automobile industry has become the world's fourth largest car producer and the third largest auto consumer. According to data provided by the State Council Development Research Center, in 2013 China's car ownership is close to 60 million units in 2020 is expected to reach 140 million, respectively, motor vehicle fuel demand for 138 million tons and 256 million tons, the country for the year 43% and 57% of total oil demand. Shortage of oil resources in China, the current oil imports as a percentage of annual double-digit growth in 2013 is close to 50% import dependence. Therefore, the development of new energy vehicles, power generation oil, is to ensure the safety of China's energy strategy measures; are needed to achieve our environmental and Chinese automobile industry by leaps and bounds, and sustainable development. While promoting new energy vehicle technology innovation and rapid development, maintaining stable economic growth and improve people's living standards have important strategic significance [2].

On the other hand, the development of new energy vehicles is an important part of smart grid construction. Electric vehicles and smart grids by combining a win-win model. Once the national grid with charging stations, will open up the car, "rations" on the downstream supply future industrial space will be greater. The current controversy about the direction of development is that while energy companies hope to take the Japanese model, that is, in the original construction of charging stations plus the road, but the distribution chain perspective to assess, the European model is more in line with the new charging station market in China needs.

2 The development of automobile industry and its impact on the environment

The automobile industry is a pillar industry of the national economy, plays an important role in the national economy and social development. With the rapid development of China's sustained and rapid economic development and urbanization process, in a long period of time in auto demand will still maintain the growth momentum, energy shortage and environmental pollution caused by the more prominent. Speeding up the cultivation and development of new energy vehicles, is effective to alleviate the pressure on energy and the environment, the urgent task of promoting the sustainable development of the auto industry, but also speed up the strategic measure of transformation and upgrading of the automotive industry, foster new economic point of growth and international competition advantage. The development of China's automobile industry is faced with many challenges from energy security, environmental protection and climate change to the requirement of sustainable development. With the rapid increase in car ownership in recent years, the automobile energy consumption growth has accelerated the trend, intensified the contradiction between China's oil supply and demand. In the current oil resources
increasingly tense, prices continued to rise in the international situation, the development of electric vehicles especially hybrids is an effective way to alleviate the situation of shortage of oil resources in China, but also enhance the core competitiveness of important strategic initiatives of our automobile industry.

Status of energy, natural resources is China advantageous to the development of new energy automotive industry. Since entering the new century, new energy electric vehicle technology make a spurt of progress. Oil into the industrialization of hybrid power technology, the technology of lithium power battery has made a major breakthrough, vehicle fuel cell technology progress. A series of this technology is very suitable for popularization and application in our country under the condition of energy resources.

From the energy situation, compared with up to 50% foreign oil dependence, adequate power supply in China, electric power installed capacity of nearly 800000000 kilowatts, a day of low power consumption is about 1000000000 kwh, can be used for 40000000 to 50000000 electric vehicles charging, this figure will increase. At the same time, China's power source is wide, can make full use of various renewable energy and clean energy, including wind power, nuclear power and other clean energy, the proportion of more and more will be also big, the power energy with high conversion efficiency, emission is relatively centralized, convenient transportation, widely distributed terminals and other advantages, fast enough to support the development of China's automobile society to provide adequate energy security of these conditions for the development of new energy vehicle in china.

The impact of recent large-scale haze, making from the government to the general public are aware of the necessity and urgency of new energy vehicles in use [3]. Various levels of government introduced subsidies to encourage policies to pilot a private purchase of new energy vehicles, to encourage consumers to buy new energy vehicles. Local Government to implement the new energy vehicle parking fee waiver, charging fee concessions and other support policies implemented in some places limited number of travel, license quota auction, when the car quota system and other measures, new energy vehicles treated differently. It has promoted the new energy vehicles to enter our field of vision as soon as possible.

3 Conclusion

The emergence of new energy vehicles can effectively alleviate the energy and environmental pressures, and to promote the sustainable development of the automobile industry, how to solve large-scale electric vehicle charging is a key factor. This paper analyzed definition and classification of new energy vehicles, the development of automobile industry and its impact on the environment to maintain stable economic growth and improve people's living standards have an important strategic meaningful conclusions.
References