

IACEED2010

## Research on new energy technology patent strategy in China

Liu Xuefeng<sup>a,b</sup>, Luo Minguang<sup>a\*</sup>

<sup>a</sup>*School of Literature, Law and Politics, China University of Mining and Technology, Xuzhou, 221008, P.R.China*

<sup>b</sup>*School of Public Administration, Huazhong University of Science and Technology, Wuhan, 430074, P.R.China*

---

### Abstract

This paper researched how to construct new energy technology patent strategy in China under the situation that the earth has been getting warmer and warmer. China has suffered a lot from climate change, so it is necessary for us to take some measures to stop it, among which new energy was considered to be a critical factor. Because of the obstacles in transfer and diffusion of new energy technology, the author put forward some suggestions on how to construct new energy patent strategy in China to solve these questions.

© 2011 Published by Elsevier Ltd. Open access under [CC BY-NC-ND license](http://creativecommons.org/licenses/by-nc-nd/3.0/).  
Selection and peer-review under responsibility of RIUDS

*Keywords:* New Energy Technology; Patent; Strategy; China

---

### 1. Introduction

The negative effect of global climate change is attracting attention of the international society, which arouses discussion on measures to postpone climate change. Among those measures, new energy technology, including solar photovoltaic, bio-fuel, wind power technology and so on, is regarded as one important method, whose development and diffusion is critical to the solutions to climate change. As a green technology, new energy technology such is highlighted again after Copenhagen Global Climate Conference.

### 2. The necessity to construct new energy technology patent strategy in China

It is important for us to construct new energy technology IPR (intellectual property right) strategy especially patent strategy in China. As the government is confronted with climate change, new energy technology patent strategy can foster government's more scientific decision, improved independent

---

\* Corresponding author. Tel.: +86-1 891 488 5383.  
E-mail address: [luominguang898@sina.com](mailto:luominguang898@sina.com).

innovation capability of enterprises and more transfer and diffusion of new energy technology, so as to safeguard the energy safety and food safety, as well as the sustainable development of the economy and society in China.

2.1. It provides a solution to the threats brought by global climate change. Climate change affects China greatly, extreme events such as high temperature, drought and fierce rainfall happens occasionally. As a huge agricultural country, the decreased crop production imperils the food safety and causes economic damage. The rain brought by the giant natural disaster such as hurricane causes landslides and mudslides, which affects life safety. So it is necessary for us to take some effective measures to postpone climate change. It is recognized generally that new energy or alternative energy is an effective way.

2.2. It helps to optimize economy development model and construct an energy saving model. Present economy development is accompanied with high pollution and high consumption, which hinders sustainable development in China. The National Intellectual Property Strategy Outline stipulates that the nation should exploit and use knowledge resources to transfer economy development model and release restraint on resource environment, to improve national competitive capability. In September 2010, the State Council passed a decision about how to foster and develop emerging industries strategically, which stipulated explicitly that the nation should strengthen the IPR's creation, enforcement, protection and management of seven industries, including new energy and environment protection industry.

2.3. It can improve the disadvantaged position of new energy technology in international competition. The patent application of new energy technology has four features. The first is low percentage in global application, for example, Chinese application in carbon capture and storage field and advanced vehicle field is 8 percent and 5 percent respectively. The second is unbalanced distribution in new energy field, mainly concentrated on building and industrial energy saving technology field, while only 1 percent in bio-energy technology and 3 percent in intelligent power grid. The third is low quality in patent application, among which invention patent occupies 55 percent and the application of the leading enterprises no more than 100 pieces. The last is that most applicants come from colleges or research agencies, while few applicants from enterprises. [1] Constructing new energy technology patent strategy will improve the research and development of new energy technology and its competitive ability.

### **3. The current dilemma during the development of new energy technology in China**

Now the development of new energy technology in China is impeded because of shortage of independent IPR, sufficient investment and proper policy environment. Taking the wind power industry as an example.

#### *3.1. Lack of independent IPR*

Presently the wind power industry has a giant market in China with billions potential investment. But the innovation capability of wind power technology needs to be improved, which results in shortage of independent IPR in China. Some foreign wind power facility manufacturers applied for patent and gained advanced position in competition, making use of their IPR advantages. According to the statistics, foreign patents in wind power field granted already in China are more than 100 pieces, and the patents are still taking on a growing tendency. [2] The statistics shows that the products of foreign enterprises occupy 52.8 percent in Chinese wind power market. [3] The shortage of independent IPR makes Chinese experts worry about that wind power industry would become the second DVD industry one day.

متن کامل مقاله

دریافت فوری ←

**ISI**Articles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات