

**TBEA 特变电工**

Always Reliable 全球信赖

**Development and Cooperation of China Power  
Transmission and Transformation Technology**

TBEA Co., Ltd.  
September 2013

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## **I Overview of Chinese electric power industry development**

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# I Overview of Chinese electric power industry development

## 1 Development history of Chinese electric power industry

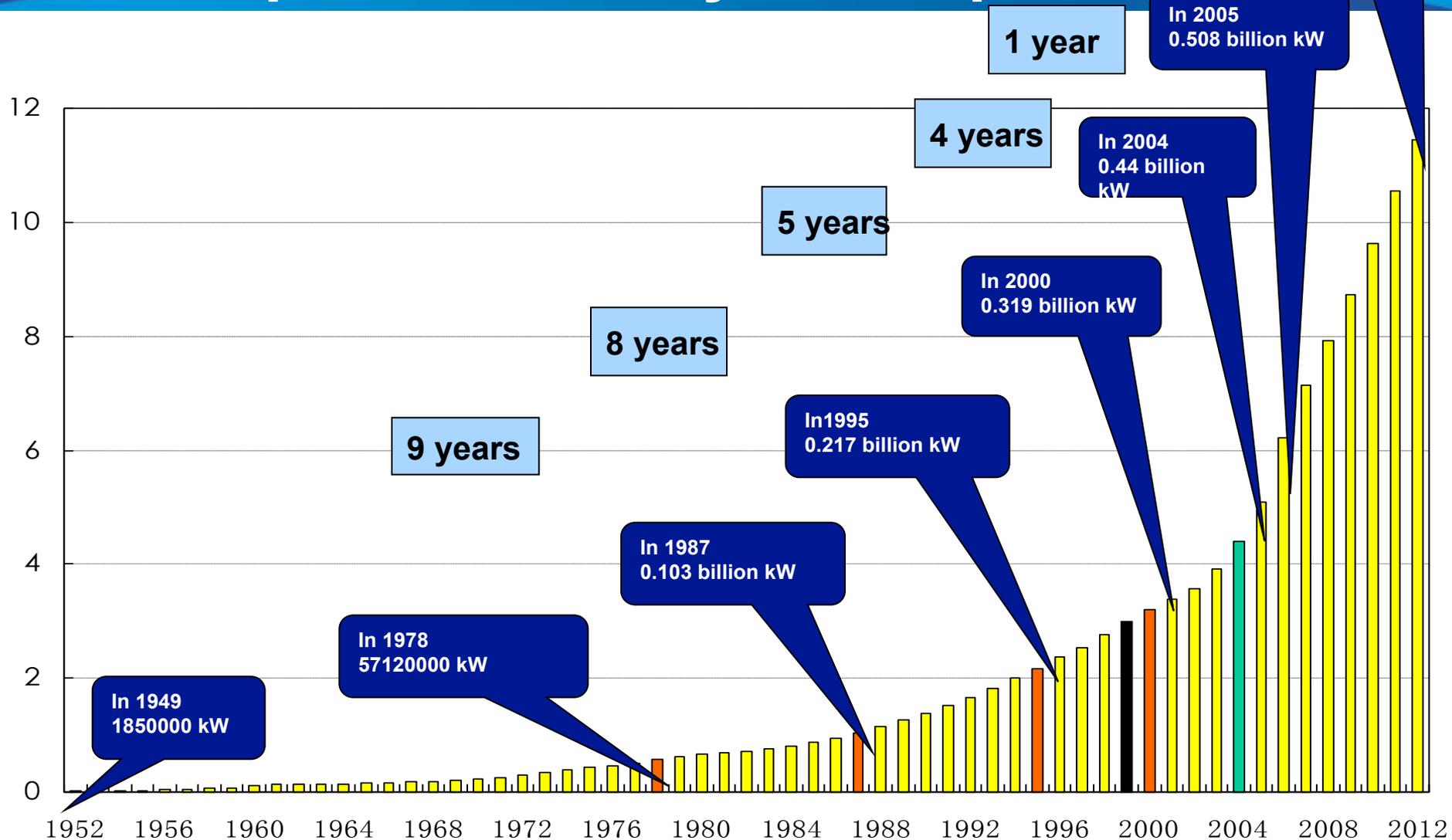


It ranks the first in the world in the aspect of power generation scale. By the end of 2012, there was a rapid growth in domestic electrical installation capacity and power generation capacity, the capacity of domestic power generation equipments reaches 1.145 billion kW. While the domestic power generation capacity reaches 4977.4 billion kW/h, the increment compared with last year is 5.22%.



The total power grid scale in China ranks the first in the world. By the end of 2012, the loop length of domestic electric transmission wire at the voltage not less than 220 kW was 507000 km, and capacity of public power transmission and transformation equipments reached 2.28 billion kVA.

# I Overview of Chinese electric power industry development



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## 2 Representing electric power technology, “UHV Power Grid and New Energy Industry, New Material Industry” creates a new era for the world’s energy conservation and power transmission

“UHV Power Grid ” means 1000 kV ultra-high voltage AC and positive and negative 800 kV ultra-high voltage DC project.

“New Energy Industry and New Material Industry” means intensive electric power development mode with the core of million kV large-scale thermal power, large-scale hydropower, large-scale nuclear power and large-scale renewable energy sources bases.

# I Overview of Chinese electric power industry development

## (1) Ultra-high voltage AC and DC projects



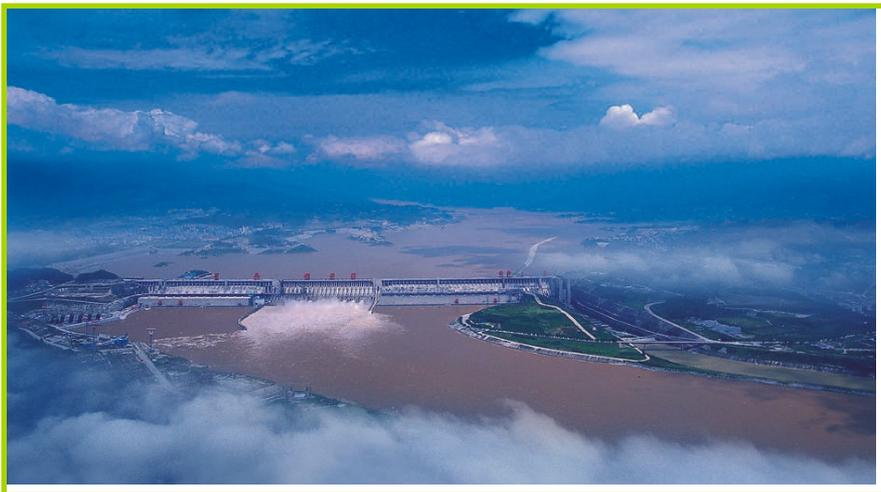
In January 2009, the world first commercially operated 1000 ultra-high voltage AC transmission experiment and demonstration project from southeast of Shanxi to Nanyang to Jingmen was put into operation, the overall length of which is 654 km, and the natural transmission power can reach 5 million kW.



In December 2009, the world first positive and negative 800 kV ultra-high voltage DC transmission experiment and demonstration engineering from Yunnan to Guangdong was put into operation, the overall length of which is 1438 km, and the electricity transmitted can reach 5 million kW.

# I Overview of Chinese electric power industry development

## (2) Hydropower and thermal power projects with capacity more than 1 million kW



In 2008, the world largest hydropower project, Three Gorges Project was



In 2006, the first domestic 1 million kW thermal power generating unit in China

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