

China Power Market Forecast 2014-2023

https://marketpublishers.com/r/C6BFB82F0FEEN.html

Date: February 2014

Pages: 131

Price: US\$ 4,400.00 (Single User License)

ID: C6BFB82F0FEEN

Abstracts

The 'China Power Market Forecast 2014-2023' is an independent and uniquely detailed insight into the world's largest and fastest growing power generation market. The report provides complete market coverage, overviews and analysis of commercial and policy related developments and dynamics, project economics and opportunities within all major power technology supply chains in China over the next 10 years. After the unprecedented growth of the past ten years or so, driven predominantly by the installation of huge volumes of coal power capacity, the Chinese power market continues to grow rapidly but is undergoing a period of transition and energy mix diversification as the government seeks to address environmental and energy security issues. These policy-driven dynamics and the Chinese government's goal of overcoming domestic R&D weaknesses and gaining access to and deploying market-leading technology continues to present substantial opportunities for foreign investors and power technology/service providers alike.



Contents

1 INTRODUCTION

- 1.1 About this Report
- 1.2 Report Structure
- 1.3 Who Should Buy This Report?
- 1.4 Precergy China Power Market Expertise

2 EXECUTIVE SUMMARY & CONCLUSIONS

- 2.1 China Power Market Introduction & Overview
- 2.2 Key Trends, Challenges & Opportunities in Main Sectors
- 2.3 China Power Market Forecasts

3 MACRO MARKET TRENDS & DRIVERS

- 3.1 Primary Energy Supply-Demand Drivers
- 3.2 Energy Supply-Demand by Fuel Type
- 3.3 Electricity Supply-Demand Drivers
- 3.4 Fuel Prices & Exchange Rates
- 3.5 Climate Change Drivers & Key Environmental Policy
- 3.6 Energy Supply Security and Related Policy in China & Globally

4 CHINA POWER MARKET OVERVIEW

- 4.1 China Power Industry History and Development
- 4.2 Government Power Market Regulatory Bodies
- 4.3 Current Market Structure
- 4.4 China Electricity Capacity Development History
- 4.5 China Installed Capacity by Ownership
- 4.6 China End-User Electricity Consumption
- 4.7 Green Energy Policy China's Commitments & Ambitions
- 4.8 Carbon Capture & Storage (CCS) Potential in China
- 4.9 Decommissioning of Aging Plant & Related Policy
- 4.10 The China Transmission System Overview & Constraints
- 4.11 China 12th Five-Year Plan Capacity Targets & Longer-Term View

5 PROJECT ECONOMICS & FOREIGN INVESTMENT



- 5.1 Overview of On-Grid Electricity Tariffs & Policy in China
- 5.2 Coal Project Capital Costs, Tariffs & Economics
- 5.3 Gas Project Capital Costs, Tariffs & Economics
- 5.4 Nuclear Project Capital Costs, Tariffs & Economics
- 5.5 Hydro Project Capital Costs, Tariffs & Economics
- 5.6 Wind Project Capital Costs, Tariffs & Economics
- 5.7 Solar PV Project Capital Costs, Tariffs & Economics
- 5.8 Biomass Project Capital Costs, Tariffs & Economics
- 5.9 Levelised Cost of Energy & Project Economics Analysis
- 5.10 Key Legislation and Policy Governing Foreign Direct Investment and Participation in the Power Sector in China
- 5.11 12th Five Year Plan Energy and Tax Policy Opportunities
- 5.12 Trends in Foreign Direct Investment

6 VALUE CHAIN ANALYSIS

- 6.1 Coal Supply Chain Overview, Constraints & Key Issues
- 6.2 Gas Supply Chain Overview, Constraints & Key Issues
- 6.3 Nuclear Supply Chain Overview, Constraints & Key Issues
- 6.4 Hydro Supply Chain Overview, Constraints & Key Issues
- 6.5 Wind Supply Chain Overview, Constraints & Key Issues
- 6.6 Solar PV Supply Chain Overview, Constraints & Key Issues
- 6.7 Brief Overview of Solar Thermal Market Value Chain
- 6.8 Brief Overview of Biomass Market Value Chain
- 6.9 Brief Overview of Wave & Tidal Market Value Chain

7 COMPANY PROFILES

- 7.1 Major Utility: China Datang Corporation
- 7.2 Major Utility: China Guodian Corporation
- 7.3 Major Utility: China Huadian Corporation
- 7.4 Major Utility: China Huaneng Group
- 7.5 Major Utility: China Power Investment Corporation
- 7.6 Major Equipment Manufacturer: Dongfang Electric Corp.
- 7.7 Major Equipment Manufacturer: Harbin Electric Co Ltd.
- 7.8 Major Equipment Manufacturer: Shanghai Electric Group
- 7.9 Major Wind Turbine Manufacturer: Sinovel Wind
- 7.10 Major Wind Turbine Manufacturer: Goldwind



- 7.11 Major Wind Turbine Manufacturer: Mingyang Wind Power
- 7.12 Major Solar PV Manufacturer: Suntech Power Holdings
- 7.13 Major Solar PV Manufacture: Trina Solar
- 7.14 Major Solar PV Manufacture: Yingli Green Energy Holding

8 PROSPECTIVE PROJECTS DATA

- 8.1 Selected Prospective Coal Power Projects
- 8.2 Selected Prospective Gas Power Projects
- 8.3 Selected Prospective Nuclear Power
- 8.4 Selected Prospective Hydro Power Projects
- 8.5 Selected Prospective Onshore Wind Projects
- 8.6 Selected Prospective Offshore Wind Projects
- 8.7 Selected Prospective Solar PV Projects

9 MARKET FORECASTS

- 9.1 Introduction to the Forecasting Process
- 9.2 Forecast Model & Assumptions
- 9.3 Power Consumption & Capacity Demand Forecasts 2014-2028
- 9.4 Overall China Power Market Forecasts 2014-2023
- 9.5 Coal Power Market Forecasts 2014-2023
- 9.6 Gas Power Market Forecasts 2014-2023
- 9.7 Nuclear Power Market Forecasts 2014-2023
- 9.8 Hydro Power Market Forecasts 2014-2023
- 9.9 Onshore Wind Power Market Forecasts 2014-2023
- 9.10 Offshore Wind Power Market Forecasts 2014-2023
- 9.11 Solar PV Power Market Forecasts 2014-2023
- 9.12 Solar Thermal Power Market Forecasts 2014-2023
- 9.13 Biomass Power Market Forecasts 2014-2023
- 9.14 Wave & Tidal Power Market Forecasts 2014-2023
- 9.15 Other Technologies Power Market Forecasts 2014-2023

10 APPENDICES

- 10.1 Model Assumptions & Forecast Project Data Quality
- 10.2 Disclaimer



List Of Figures

LIST OF FIGURES

- Figure 2: Total Expenditure by Fuel Type 2004-2023
- Figure 3: Current & Future Global Primary Energy Demand
- Figure 4: Current & Future Population & Energy Demand
- Figure 5: Energy Demand & GDP Relationships
- Figure 6: Global and China Coal Production & Consumption
- Figure 7: Global and China Gas Production & Consumption
- Figure 8: Global and China Oil Production & Consumption
- Figure 9: Nuclear Power Consumption History & Outlook
- Figure 10: Global Electricity Generation & China Share Thereof
- Figure 11: Global & China Electricity Generation per Capita
- Figure 12: Global Electricity Gen Forecast by Fuel Type to 2040
- Figure 13: Oil, Coal, Gas and Uranium Prices
- Figure 14: Renminbi to USD Monthly Average 2000 to Present
- Figure 15: CO2 Emissions from Energy Consumption
- Figure 16: China Primary Energy Production & Consumption
- Figure 17: SPC Restructuring and Asset Allocation in December 2002
- Figure 18: Current Structure of China Electricity Market
- Figure 19: China Installed Power Generation Capacity by Fuel Type Year-End 1980-2013
- Figure 20: Percentage Breakdown of China's Installed Capacity by Fuel Type Year-End 2003 and 2013
- Figure 21: Overall Power Capacity Breakdown by Company Year-End 2013
- Figure 22: Coal Power Capacity Breakdown by Company Year-End 2013
- Figure 23: Gas Power Capacity Breakdown by Company Year-End 2013
- Figure 24: Hydro Power Capacity Breakdown by Company Year-End 2013
- Figure 25: Nuclear Power Capacity Breakdown by Company Year-End 2013
- Figure 26: Wind Power Capacity Breakdown by Company Year-End 2013
- Figure 27: China Electricity Consumption by End-User 1980-2012
- Figure 28: Percentage Breakdown of China's End-User Consumption 2003 and 2012
- Figure 29: Comparison of Electricity Production Costs for Selected CCS Options (2002)
- Figure 30: Regional Power Network Operators in China
- Figure 31: 12th 5-Year Plan Capacity Targets by Fuel Types
- Figure 32: China Capacity and Consumption Targets 2015 and 2020
- Figure 33: Coal Capital Costs, Tariffs & Economics Charts



- Figure 34: Gas Capital Costs, Tariffs & Economics Charts
- Figure 35: Nuclear Capital Costs, Tariffs & Economics Charts
- Figure 36: Hydro Capital Costs, Tariffs & Economics Charts
- Figure 37: Wind Capital Costs, Tariffs & Economics Charts
- Figure 38: Solar PV Capital Costs, Tariffs & Economics Charts
- Figure 39: Biomass Capital Costs, Tariffs & Economics Charts
- Figure 40: Levelised Cost of Energy for Different Power Technologies in China 2013
- Figure 41: Foreign Direct Investment Value and No. of Projects 2000-2012
- Figure 42: Origin Country % Share of Non-Financial FDI in China in 2012
- Figure 43: Coal Power Project Equipment & EPC Supply Chain Map
- Figure 44: Gas Power Project Equipment & EPC Supply Chain Map
- Figure 45: Nuclear Power Project Equipment & EPC Supply Chain Map
- Figure 46: Hydro Power Project Equipment & EPC Supply Chain Map
- Figure 47: Wind Turbine Manufacturers Annual Deliveries for Installation in China 2010-2012
- Figure 48: Solar PV Manufacturers Annual Global PV Module Sales and Capacity 2010-2012
- Figure 49: China Datang Corp. & DIPGC Financial Performance
- Figure 50: China Datang Corp. & DIPGC Market Performance
- Figure 51: China Guodian Corp. & GDPC Financial Performance
- Figure 52: China Guodian Corp. & GDPC Market Performance
- Figure 53: China Huadian Corporation & HDPI Financial Performance
- Figure 54: China Huadian Corporation & HDPI Market Performance
- Figure 55: China Huaneng Group & HPI Financial Performance
- Figure 56: China Huaneng Group & HPI Market Performance
- Figure 57: China Power Investment Corp & CPID Financial Performance
- Figure 58: China Power Investment Corp & CPID Market Performance
- Figure 59: Dongfang Electric Corporation Limited Financial Performance
- Figure 60: Dongfang Electric Corporation Limited Market Performance
- Figure 61: Harbin Electric Company Limited Financial Performance
- Figure 62: Harbin Electric Company Limited Market Performance
- Figure 63: Shanghai Electric Group Financial Performance
- Figure 64: Shanghai Electric Group Market Performance
- Figure 65: Sinovel Financial Performance
- Figure 66: Sinovel Power Market Performance
- Figure 67: Goldwind Financial Performance
- Figure 68: Goldwind Market Performance
- Figure 69: Mingyang Wind Power Group Financial Performance
- Figure 70: Mingyang Wind Power Group Market Performance



- Figure 71: Suntech Power Holdings Financial Performance
- Figure 72: Suntech Power Holdings Market Performance
- Figure 73: Trina Solar Financial Performance
- Figure 74: Trina Solar Market Performance
- Figure 75: Yingli Green Holding Financial Performance
- Figure 76: Yingli Green Holding Market Performance
- Figure 77: Modelling Process Diagram
- Figure 78: China Electricity Consumption Forecast by End-User 2004-2028
- Figure 79: China Electricity Total Capacity Demand Forecast 2004-2028
- Figure 80: Total Cumulative Installed Capacity by Fuel Type 2004-2023
- Figure 81: Total Capacity Additions by Fuel Type 2004-2023
- Figure 82: Total Expenditure by Fuel Type 2004-2023
- Figure 83: Coal Capacity Additions by Unit Size 2004-2023
- Figure 84: Percentage Breakdown of Coal Capacity Additions by Unit Size 2004-2013 and 2014-2023
- Figure 85: Coal Expenditure by Unit Size 2004-2023
- Figure 86: Percentage Breakdown of Coal Capex by Unit Size 2004-2013 and 2014-2023
- Figure 87: Coal Expenditure Breakdown by Component 2004-2023
- Figure 88: Gas Capacity Additions by Unit Size 2004-2023
- Figure 89: Percentage Breakdown of Gas Capacity Additions by Unit Size 2004-2013 and 2014-2023
- Figure 90: Gas Expenditure by Unit Size 2004-2023
- Figure 91: Percentage Breakdown of Gas Capex by Unit Size 2004-2013 and 2014-2023
- Figure 92: Gas Expenditure Breakdown by Component 2004-2023
- Figure 93: Nuclear Capacity Additions by Type 2004-2023
- Figure 94: Percentage Breakdown of Nuclear Capacity Additions by Type 2004-2013 and 2014-2023
- Figure 95: Nuclear Expenditure by Type 2004-2023
- Figure 96: Percentage Breakdown of Nuclear Capex by Type 2004-2013 and 2014-2023
- Figure 97: Total Nuclear Expenditure Breakdown by Component 2004-2023
- Figure 98: Hydro Capacity Additions by Type 2004-2023
- Figure 99: Percentage Breakdown of Hydro Capacity Additions by Type 2004-2013 and 2014-2023
- Figure 100: Hydro Expenditure by Type 2004-2023
- Figure 101: Percentage Breakdown of Hydro Capex by Type 2004-2013 and 2014-2023
- Figure 102: Conventional Hydro Expenditure Breakdown by Component 2004-2023



- Figure 103: Pumped Storage Expenditure Breakdown by Component 2004-2023
- Figure 104: Onshore Wind Capacity Additions 2004-2023
- Figure 105: Onshore Wind Expenditure Breakdown by Component 2004-2023
- Figure 106: Offshore Wind Capacity Additions 2004-2023
- Figure 107: Offshore Wind Expenditure Breakdown by Component 2004-2023
- Figure 108: Solar PV Capacity Additions 2004-2023
- Figure 109: Solar PV Expenditure Breakdown by Component 2004-2023
- Figure 110: Solar Thermal Capacity Additions 2004-2023
- Figure 111: Solar Thermal Expenditure Breakdown by Component 2004-2023
- Figure 112: Biomass Capacity Additions 2004-2023
- Figure 113: Biomass Expenditure Breakdown by Component 2004-2023
- Figure 114: Wave & Tidal Capacity Additions 2004-2023
- Figure 115: Wave & Tidal Expenditure Breakdown by Component 2004-2023
- Figure 116: Other Technologies Capacity Additions 2004-2023
- Figure 117: Other Technologies Expenditure Breakdown 2004-2023
- Figure 118: Base Case Capacity Additions Forecast Project Data Quality 2004-2023
- Figure 119: Industry Consumption Regression Model v Actual Data
- Figure 120: Transportation Consumption Regression Model v Actual Data
- Figure 121: Agriculture Consumption Regression Model v Actual Data
- Figure 122: Commercial Consumption Regression Model v Actual Data
- Figure 123: Residential Consumption Regression Model v Actual Data
- Figure 124: 'Other' Consumption Regression Model v Actual Data
- Figure 125: Construction Consumption Regression Model v Actual Data



About

After the unprecedented growth of the past ten years or so, driven predominantly by the installation of huge volumes of coal power capacity, the Chinese power market continues to grow rapidly but is undergoing a period of transition and energy mix diversification as the government seeks to address environmental and energy security issues. These policy-driven dynamics and the Chinese government's goal of overcoming domestic R&D weaknesses and gaining access to and deploying market-leading technology continues to present substantial opportunities for foreign investors and power technology/service providers alike.

The 'China Power Market Forecast 2014-2023', released in February 2014 by energy business experts Precergy, forecasts that a total of \$1.46 trillion will be spent in China over the next 10 years installing 1,176GW of new capacity additions. The report, which is an independent and uniquely detailed insight into the world's largest and fastest growing power generation market, provides complete market coverage, overviews and analysis of commercial and policy related developments and dynamics, project economics and opportunities within all major power technology supply chains in China over the next 10 years.

Commenting on the market report, Precergy Managing Director Adrian John said "as China's economy continues to grow strongly, the challenge of meeting its growing electricity demand while developing long-term energy security and addressing environmental issues is set to drive huge investment in 'clean' energy technologies.

However, the current inadequacies of China's domestic R&D means that substantial opportunity still exists for foreign companies to provide existing or future advanced 'clean' energy technologies such as IGCC, CCS, advanced wind and advanced nuclear technologies among other product and service value chain opportunities."

Discussing the reports forecasts and methodologies Mr. John went on the say, "The report's forecasts are based on a the scrutiny of over 200,000 items of data from our comprehensive in-house China projects database that includes over 3,400 projects that are currently at various stages of development (i.e. under construction, planned, proposed etc.) and total almost 1,500GW of capacity. We believe the report's level of depth and detail provides our readers with both an essential and rich source of information, and the confidence to utilise the report's forecasts and findings to support key business investment and growth strategies."



I would like to order

Product name: China Power Market Forecast 2014-2023

Product link: https://marketpublishers.com/r/C6BFB82F0FEEN.html

Price: US\$ 4,400.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

Payment

First name: Last name:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/C6BFB82F0FEEN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970