
Description: China is a big consumer of energy. Its building energy consumption reaches 500 million tons of standard coal annually, accounting for 27% of the total. In China, one ton of standard coal is equal to 0.77 ton of crude oil and 752 cubic meters of natural gas. At present, China has an average annual growth rate of more than 5.84% in building energy consumption, of which around half is consumed by building doors and windows. Since China has not paid much attention to energy conservation of doors and windows for a long time, over 93% of existing 44 billion square meters of construction are not installed by energy-saving window frames and glass. And the majority of around two billion square meters of the newly added construction each year are not energy-saving buildings. Furthermore, several billion square meters of public construction and tens of millions of square meters of glass curtain walls mostly use non-energy-saving monolithic glass or common hollow glass. Starting from April 1st 2008, China's newly amended Energy Saving Law will be fully implemented, which has made the conservation of resources as the basic national policy, indicating that China's energy-efficient glass market will have a broad space for the development.

Low-E glass, as the best energy-saving glass, has extremely good energy-saving effect, good optical performance and environmental characteristics in comparison with common glass and conventional coated glass used in construction. Whereas, China's output of Low-E glass only hit 5.9 million square meters in 2005, and the figure rose to 9.2 million square meters in 2006 which was less than one sixths of the U.S. output in 2004. In this sense, China lags far behind the developed countries in the promotion and the application of energy-saving glass.

China's annual output of Low-E glass has increased gradually in recent years. China's Low-E glass production lines are mainly concentrated in such manufacturers as CSG Holding Co., Ltd., China Yaohua Glass Group Corporation, Shanghai Yaohua Pilkington Glass Co., Ltd., Weihai Blue Star Glass Holding Co., Ltd., and Fuyao Group Glass Industries Co., Ltd. During the period of 2007 to 2008, more and more glass producers have introduced and will introduce Low-E glass production lines. It is expected that China's demand for Low-E glass by 2010 will amount to 97 million square meters, and meanwhile, China's output of Low-E glass will reach 50 million square meters at the end of 2010 based on the current growth rate of capacity expansion. In contrast to the huge domestic demand, there is a huge gap in the production capacity of Low-E glass in China.

The data in the report is sourced from the National Bureau of Statistics of China, the Ministry of Housing and Urban-Rural Construction of the People's Republic of China and the China Architectural and Industrial Glass Association, and the data of some key enterprises are from their financial statements.

Contents:
1. Definition and Classification of Low-E Glass Product
   1.1 Overview of Coated Glass Products
      1.1.1 Concept
      1.1.2 Classification
   1.2 Brief Introduction of Low-E Glass Products
      1.2.1 What Low-E Glass is.
      1.2.2 Characteristics and Functions
   1.3 Classification of Low-E Glass Products
      1.3.1 Classifications by Processing Technique
      1.3.2 Classifications by Usage
   1.4 Application and Development of Low-E Glass

2. China Energy Policy and Low-E Glass Market
   2.1 China's Laws and Regulations Regarding Construction Energy Saving
   2.2 Overview of China Energy Saving Glass Market
      2.2.1 Increasing Demand for Energy-Saving Glass
      2.2.2 Gradual Rises in Production of and Demand for Hollow Glass
   2.3 A Great Development Period of China Low-E Glass
      2.3.1 Urgent Need to Increase Low-E Glass Capacity
      2.3.2 Huge Space for Applications of Low-E Glass
3. China Low-E Glass Downstream Market
3.1 Energy Saving Curtain Wall Market
3.1.1 Classification of Curtain Walls
3.1.2 Continuous Growth of Curtain Wall in the Process of Urbanization
3.1.3 Rapid Growth of Energy Saving Curtain Wall Driven by Policy
3.1.4 Forecast of Curtain Wall Demand in China
3.2 Energy Saving Door & Window Market
3.3 Low-E Hollow Glass Market
3.3.1 Properties of Low-E Hollow Glass
3.3.2 Low-E Hollow Glass to Be the Best Choice for Public Construction
3.3.3 Utilization Ratio of Low-E Hollow Glass in Main Countries

4. Forecast of China Low-E Glass Market Scale
4.1 Total Energy Saving Construction Area Newly Added Annually in China
4.2 Forecast of Low-E Glass Demand in China
4.3 Huge Gap in China Low-E Glass Capacity

5. Competition Layout of China Low-E Glass Industry
5.1 China Yaohua Glass Group Corporation
5.1.1 Background Introduction
5.1.2 Asia's First On-line Coating Low-E Glass Production Line
5.1.3 Main Operating Revenue by Product
5.1.4 Production Capacity of Functional Glass Including Low-E Glass in 2007
5.2 Shanghai Yaohua Pilkington Glass Co., Ltd.
5.2.1 Background Introduction
5.2.2 Main Products
5.2.3 Obtaining New Technology with EURO13 Million
5.2.4 Main Operating Revenue by Product
5.3 CSG Holding Co., Ltd.
5.3.1 Background Introduction
5.3.2 Plans to Invest CNY820 million in Chongqing and Tianjin
5.3.3 Main Operating Revenue by Product
5.3.4 Non-public Additional Private Placement in 2007
5.4 Sanxin Glass Technology Co., Ltd.
5.4.1 Background Introduction
5.4.2 Main Operating Revenue by Product
5.4.3 Investment of CNY330 Million in Low-E Glass and Energy-Saving Curtain Wall
5.4.4 Invested Projects by IPO Proceeds
5.5 Weihai Blue Star Glass Holding Co., Ltd.
5.5.1 Background Introduction
5.5.2 A Continuous Growth of Net Assets and Sales Revenue
5.6 Anyuan Industrial Co., Ltd
5.6.1 Background Introduction
5.6.2 Main Operating Revenue by Product
5.7 Saint Gobain China Investment Co., Ltd.
5.7.1 Background Introduction
5.7.2 Operating Revenue
5.8 Hebei Yingxin Glass Group Co., Ltd.
5.8.1 Background Introduction
5.8.2 Two On Line Low-E Glass Production Lines
5.9 FuYao Group Glass Industries Co., Ltd.
5.9.1 Background Introduction
5.9.2 Two Subsidiaries Producing Low-E Coated Glass
5.9.3 Main Operating Revenue by Product
5.9.4 Use of Funds Raised by Additional Issuance of Shares in 2008

Selected Charts

The Far Higher Growth Rate of Hollow Glass Output than that of Flat Glass Output, 2005-2007
Forecast of Construction Curtain Wall Demand in China (Excluding Reformation), 2006-2010
Forecast of Commercial Housing Sales Area and Windows & Doors Area in China, 2003-2010
Utilization Ratio of Low-E Hollow Glass in Main Developed Countries, 2007
The Newly Added House Construction Area Annually in 1997-2007
Forecast of Low-E Glass Market Demand in China, 2005-2010
Composition of Main Operating Revenues of China Yaohua Glass Group Corporation by Product, 2005-2007
Composition of Main Operating Revenues of Shanghai Yaohua Pilkington Glass Co., Ltd by Product, 2005-2007
Composition of Main Operating Revenues of CSG Holding Co., Ltd by Product, 2005-2007
Composition of Main Operating Revenues of Sanxi Glass Technology Co., Ltd by Product, 2007
Sketch Map for Product Upgrading of Weihai Blue Star Glass Holding Co., Ltd
Composition of Main Operating Revenues of Anyuan Industrial Co., Ltd by Product, 2005-2007
Sales Revenues of Saint Gobain China Investment Co., Ltd., 2002-2007
Composition of Main Operating Revenues of Fuyao Group Glass Industries Co., Ltd by Product, 2005-2007
Comparison between Off-line Low-E Glass and On-line Low-E Glass
Comparison between High-Transmission Low-E, Sunscreen Low-E and Dual-Silver Low-E
Thermal Performance Parameters of Common Glass
Thermal Insulating Properties of Common Construction Window
Forecast of the Newly Added Energy Saving Construction Area in China, 2006-2010
Forecast of China Energy Saving Glass and Low-E Glass Market Demand, 2006-2010
Production Capacity of Major Low-E Glass Producers in China by the End of 2007 (Including the Production Capacity of Heat Reflective Glass)
The Newly Added Production Capacity of Major Low-E Glass Manufacturers in China after 2007 (Including the Production Capacity of Heat Reflective Glass)
Investment Trend of Funds Raised by Sanxi Glass Technology Co., Ltd.
The Purposes of Stock Funds Raised by Fuyao Group Glass Industries Co., Ltd, 2008

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