STUDY GOAL AND OBJECTIVES

This report provides the industry executives with strategically significant competitor information, analysis, insight and projection on the competitive pattern and key companies in the industry, crucial to the development and implementation of effective business, marketing and R&D programs.

REPORT OBJECTIVES

◆ To establish a comprehensive, factual, annually updated and cost-effective information base on market size, competition patterns, market segments, goals and strategies of the leading players in the market, reviews and forecasts.
◆ To assist potential market entrants in evaluating prospective acquisition and joint venture candidates.
◆ To complement the organizations’ internal competitor information gathering efforts with strategic analysis, data interpretation and insight.
◆ To suggest for concerned investors in line with the current development of this industry as well as the development tendency.
◆ To help company to succeed in a competitive market, and

METHODOLOGY

Both primary and secondary research methodologies were used in preparing this study. Initially, a comprehensive and exhaustive search of the literature on this industry was conducted. These sources included related books and journals, trade literature, marketing literature, other product/promotional literature, annual reports, security analyst reports, and other publications. Subsequently, telephone interviews or email correspondence was conducted with marketing executives etc. Other sources included related magazines, academics, and consulting companies.

INFORMATION SOURCES

The primary information sources include Company Reports, and National Bureau of Statistics of China etc.
Abstract

China’s rail transit industry has boomed during the 12th Five-Year Plan period (2011-2015) with railway fixed-asset investment amounting to RMB3.58 trillion, a 47.3% surge over the 11th Five-Year Plan period. The country’s railway mileage expanded from 91,200km in 2010 to 121,000km (including 19,000km high-speed railway) in 2015. Meanwhile, urban rail transit construction has been in full swing, with 111 urban rail transit lines (a total length of 3,286km) in 25 Chinese cities built and put into service by the end of 2015. All these have fueled the rapid development of rail transit vehicle industry.

In 2015, operational urban rail transit vehicles totaled 19,941 units and 48,165 standardized units, a 15.3% gain for each; high-speed CRHs (electric multiple units) were 21,000 units (cars) with CRH ownership density standing at 1.1 car/km or so, a marked growth compared with 0.75 in 2013. A rise in operational rail transit vehicles, accordingly, stimulates the purchase of rail transit vehicle air-conditioners. RMB5.389 billion was spent on buying rail transit vehicle air-conditioners in 2015, representing an increase of 5.6% from RMB5.105 billion in 2014.

According to the Medium- and Long-term Railway Network Plan issued by the State Council, China will invest no less than RMB2.8 trillion to build over 23,000km new railways during 2016-2020, upsizing railway network to 150,000km (30,000km high-speed railway) and covering more than 80% of large cities by 2020. Moreover, major cities scales up their investment in urban rail transit, adding an estimated traffic mileage of 900km annually during 2016-2020, twice the new ones in 2015, thus contributing an upsurge in rail transit vehicles delivered to newly-opened lines. As existing lines find an increasing frequency of departures, urban rail transit vehicle industry chain is bound to enjoy a period of explosive growth over the next couple of years.

Railway and urban rail transit air-conditioners are highly demanding on production qualification. Manufacturers must obtain product testing certificate and operation report before they enter the Chinese urban rail transit market. Shanghai Faiveley, Shijiazhuang King Transportation Equipment, and Guangzhou Zhongche Railway Vehicles Equipment Joint-Stock Co., Ltd. are the three locomotive and vehicle air-conditioner manufacturers designated by China Railway Corporation and also major manufacturers of rail transit air-conditioners in China.

Source: China Rail Transit Vehicle Air-conditioner Industry Report  Oct 2016  Unit: RMB100mln
Shijiazhuang King Transportation Equipment Co., Ltd. produces about 12,000 sets of rail transit air conditioning units annually. The company has set its foot in high-speed rail, railway coach, locomotive and urban rail transit. EU651 and EU691 have been used in 200/300/350km/h CRH2 CRH.

Guangzhou Zhongche Railway Vehicles Equipment Joint-Stock Co., Ltd. boasts annual capacity of around 8,000 sets. The company was acquired by Beijing Dinghan Technology in 2015 with the latter’s Jiangmen-based 4,000 set/a project expected to go into production in 2016.

Shanghai Faiveley is primarily engaged in the production of urban rail and railway coach air-conditioning units with annual capacity of about 6,500 sets.

China Rail Transit Vehicle Air-conditioner Industry Report, 2016-2020 focuses on the following:
- Overview of rail transit vehicle air-conditioner industry in China (definition & classification, industry policies, development trends, etc.);
- Rail transit industry in China (railway, high-speed rail, urban rail transit, etc.)
- Rail transit vehicle industry in China (locomotive, CRH, urban rail transit vehicle, etc.);
- Rail transit vehicle air-conditioner industry in China (sales, demand, competitive landscape, and market forecasts, etc. in locomotive, railway coach, CRH, and urban rail transit vehicle industries);
- 9 rail transit vehicle air-conditioner enterprises including Shijiazhuang King Transportation Equipment, Guangzhou Zhongche Railway Vehicles Equipment, New United Group, Shanghai Faiveley, Merak Jinxin Air Conditioning Systems (Wuxi), Songz Automobile Air Conditioning, Longertek Technology, Shanghai Cool-Air Transport Refrigeration Equipment, and Zhejiang Liebherr Zhongche Transportation Systems (profile, financial standing, products, R&D, latest developments, etc.)
1. Status Quo of China’s Rail Transit Air-Conditioning Industry
   1.1 Product Definition and Classification
   1.1.1 Air-conditioning Unit Series for Railway Coaches and Locomotives
   1.1.2 Air-conditioning Unit Series for High-speed CRHs
   1.1.3 Air-conditioning Unit Series for Urban Rail Vehicles
   1.1.4 Air-conditioning Unit Series for Other Vehicles
   1.2 Chinese Policies on Rail Transit Vehicle Air-conditioning Industry
   1.2.1 Industry Classification
   1.2.2 Industry Supervision
   1.2.3 Laws & Regulations
   1.2.4 Industrial Policy

2. Development of China’s Rail Transit Industry
   2.1 Development of Railway Transportation in China
   2.1.1 Status Quo of Railway Transportation
   2.1.2 Dynamics of Railway Investment
   2.1.3 Railway Network Scale
   2.2 Development of High-Speed Rail in China
   2.2.1 High-Speed Rail in Operation in China
   2.2.2 High-Speed Rail Construction Plan
   2.2.3 High-Speed Rail Investment News
   2.2.4 Major High-Speed Rail Projects under Construction
   2.3 Development of Urban Rail (Metro & Light Rail) in China
   2.3.1 Urban Rail in Operation in Key Cities across China
   2.3.2 Urban Rail Construction Plan in Key Cities across China
   2.3.3 Urban Rail Investment News in Key Cities across China
   2.3.4 Major Urban Rail Projects under Construction in Key Cities across China

3. Development of China’s Rail Transit Vehicle Industry
   3.1 Locomotive
   3.2 Urban Rail Transit Vehicles
   3.3 High-Speed Rail Vehicles
   3.3.1 Market Demand for High-speed Rail Vehicles in China
   3.3.2 Demand Forecast for High-speed Rail Trunk Line Vehicles in China
   3.3.3 Demand Forecast for Inter-city Rail Vehicles in China

4. Situation of Rail Transit Vehicle Air-conditioning Market in China
   4.1 Overall Market
   4.1.1 Market Size
   4.1.2 Competitive Landscape
   4.1.3 Sales Comparison of Rail Transit Vehicle Air-conditioner Market
   4.1.4 Manufacturing Capabilities of Major Enterprises
   4.1.5 Customers Supported by Major Enterprises
   4.2 Railway Transportation Air-conditioning Market
   4.2.1 Market Size
   4.2.2 Demand Analysis
   4.2.3 Demand Forecast
   4.3 Urban Rail Vehicle Air-conditioning Market
   4.3.1 Market Size
   4.3.2 Demand Analysis
   4.3.3 Demand Forecast
5. Major Chinese Rail Transit Air-Conditioner Manufacturers

5.1 Shijiazhuang King Transportation Equipment Co., Ltd
5.1.1 Profile
5.1.2 Main Products
5.1.3 Major Customers
5.1.4 Service Network
5.1.5 Operation
5.1.6 Competitive Edges
5.1.7 Developments

5.2 Shanghai Faiveley
5.2.1 Profile
5.2.2 Products
5.2.3 Operation
5.2.4 Competitive Edge

5.3 Guangzhou Zhongche Railway Vehicles Equipment Joint-Stock Co., Ltd.
5.3.1 Profile
5.3.2 Main Products
5.3.3 Operation
5.3.4 Competitive Edge
5.3.5 Subsidiaries
5.3.6 Developments

5.4 New United Group
5.4.1 Profile
5.4.2 Operation
5.4.3 Revenue Structure
5.4.4 Gross Margin
5.4.5 New United Air-conditioning System (Jiangsu)
5.4.6 Main Products
5.4.7 Production and Sales
5.4.8 Competitive Edge

5.5 Merak Jinxin Air Conditioning Systems (Wuxi) Co. Ltd.
5.5.1 Profile
5.5.2 Main Products
5.5.3 Operation
5.5.4 Competitive Edge

5.6 Songz Automobile Air Conditioning Co., Ltd.
5.6.1 Profile
5.6.2 Operation

5.7 Longertek Technology
5.7.1 Profile
5.7.2 Main Products
5.7.3 Operation
5.7.4 Competitive Edge
5.7.5 Developments

5.8 Shanghai Cool-Air Transport Refrigeration Equipment Co., Ltd. (COOLTEK)
5.8.1 Profile
5.8.2 Main Products
5.8.3 Operation
5.8.4 Competitive Edge
5.8.5 Developments

5.9 Zhejiang Liebherr Zhongche Transportation Systems Co., Ltd.
• Air Conditioning Installation for Major CRHs in China
• Chinese Laws and Regulations on Rail Transit Industry
• Major Chinese Policies on Rail Transit Industry
• Total Converted Traffic Turnover of Railways in China, 2008-2015
• Passenger Traffic and Freight Volume of Railways in China, 2010-2015
• Fixed-asset Investment in Railways in China, 2006-2016
• Structure of Fixed-asset Investment in Railways in China, 2011-2015
• Structure of Fixed-asset Investment in Railways in China, 2006-2016
• Investment in Purchase of Locomotives in China, 2006-2015
• Operating Mileage of Railways in China, 2006-2015
• Operating Mileage of New Railway Lines in China, 2006-2015
• Mileage of Electrified Railways in China, 2010-2015
• Operating Mileage of High-speed Rail in China, 2013-2015
• Routes for High-speed Rail Put into Operation in China in Early 2016
• Planning Map for High-speed Rail Lines in China, 2020
• Major Newly-started Projects of High-speed Rail, 2016
• China’s High-speed Rail Lines under Construction, 2016
• Chinese Cities Obtaining Approval of Constructing Urban Rail Transit, 2016
• Operating Mileage of Urban Rail Transit in China, 2008-2015
• Urban Rail/Metro Lines Put into Operation in All Chinese Cities as of the End of April 2016
• China’s Urban Rail Transit Projects Involved in Three-Year Action Plan for Construction of
• Major Transportation Infrastructure Projects, 2016-2018
• Major First-tier Cities’ 13th Five-Year Plan for Developing Urban Rail Transit
• Added Mileage of Urban Rail Transit in China, 2014-2020E
• China’s Investment in Urban Rail Transit, 2008-2014
• Key Urban Rail Transit Projects under Construction, 2016
• China's Locomotive Ownership, 2007-2015
• China’s Locomotive Structure (by Ownership), 2007-2015
• China’s Railway Locomotive Output, 2006-2016
• China’s Subway Vehicle Ownership, 2009-2015
• China’s Subway Vehicle Ownership, 2015-2020E
• High-speed Railway Vehicle Ownership Density in Major Countries
• Newly Operated High-speed Rail Projects, 2015
• Intercity High-speed Railways Proposed and under Construction in China, 2015
• Added Market Demand for Intercity High-speed CRHs in China, 2015-2020E
• Cost Structure of Chinese CRHs, 2014-2015
• Purchase Amount of Air-conditioners for Rail Transit Vehicles in China
• CRH Parts Suppliers Obtaining CRCC Certification in China
• Comparison of Rail Transit Air-conditioner Sales Value among Major Chinese Manufacturers, 2014-2015
• Capacity Situation of Major Chinese Rail Transit Air-conditioner Manufacturers, 2015
• Major Domestic Rail Transit Air-conditioner Manufacturers and Their Partners
• China’s Railway Vehicle Air Conditioning Market Size, 2014-2015
• Changing Trends in China’s Demand for Railway Locomotive Air Conditioning, 2014-2015
• Changing Trends in China’s Demand for Ordinary Railway Coach Air-conditioner, 2009-2015
• China’s Demand for CRH Air-conditioner, 2014-2015
• China’s Demand for Railway Vehicle Air-conditioner, 2016-2020E
• China’s Urban Rail Vehicle Air Conditioning Market Size, 2014-2015
• Number of China’s New Urban Rail Vehicles, 2014-2020E
• Comparison between New Mileage and New Vehicles in China, 2007-2014
• China’s Demand for Urban Rail Transit Vehicles (Excluding Tramcars), 2016-2020E
• China’s Demand for Rail Transit Vehicle Air-conditioner, 2016-2020E
• Models and Application of Air Conditioning Products for Main Rail Transit Vehicles of Shijiazhuang King Transportation Equipment
• List of Air Conditioning for Light Railway of Shijiazhuang King Transportation Equipment
• Performance Index of Air Conditioning Units for Subway Vehicle Compartment of Shijiazhuang King Transportation Equipment
• Air Conditioning Units for Subway Vehicle Driver’s Cab of Shijiazhuang King Transportation Equipment
• Performance Index of Air Conditioning Units for Railway Coaches of Shijiazhuang King Transportation Equipment
• Performance Index of Air Conditioning Units for Locomotive Driver’s Cab of Shijiazhuang King Transportation Equipment
• Performance Index of Air Conditioning Units for High-speed Trains of Shijiazhuang King Transportation Equipment
• Performance Index of Air Conditioning Units for Other Vehicles of Shijiazhuang King Transportation Equipment
• Major Domestic and Foreign Clients of Shijiazhuang King Transportation Equipment
• Domestic Service Centers of Shijiazhuang King Transportation Equipment
• Overseas Service Centers of Shijiazhuang King Transportation Equipment
• Gross Industrial Output Value and Sales Value of Shijiazhuang King Transportation Equipment, 2014-2015
• Main Product Applications of Shanghai Faiveley
• Rail Transit Air Conditioning Diagram of Shanghai Faiveley
• Gross Industrial Output Value and Sales Value of Shanghai Faiveley, 2014-2015
• Energy Saving Advantages of Faiveley’s Rail Transit Air Conditioning
• ZRJC’s Air Conditioning Units for Railway Coaches
• ZRJC’s Air Conditioning Units for Railway Coaches (Double-deck)
• ZRJC’s Split-type Air Conditioning Units for Railway Coaches
• ZRJC’s Locomotive Air Conditioning Units
• ZRJC’s Air Conditioning Units for Urban Rail Vehicles
• ZRJC’s Air Conditioning Units for Qinghai-Tibet Railway Vehicles
• ZRJC’s Air Conditioning Units for Railway Air-conditioned Power Generator Cars and Baggage Cars
• ZRJC’s Gross Industrial Output Value and Sales Value, 2014-2015
• ZRJC’s Major Holding Subsidiaries
• Revenue and Net Income of New United Group, 2011-2016
• Gross Profit and Gross Margin of New United Group, 2013-2016
• Air Conditioning Revenue and Gross Margin of New United Group, 2011-2016
• Major Train Air Conditioning Products of New United Group
• New United Group’s Air Conditioning Equipment Capacity, Output, and Sales Volume, 2013-2016
• Merak Jinxin Air’s Results List
• Merak Jinxin Air’s Revenue, Total Profit & Net Income, 2014-2015
• Songz’s Employees, 2010-2015
• Songz’s Revenue and Net Income, 2010-2016
• Songz’s Revenue Structure by Product, 2010-2015
• Songz’s Revenue Structure by Region, 2010-2015
• Songz’s Gross Margin by Product, 2010-2015
• Songz’s Major Air Conditioning Equipment for Subway Vehicles
• Songz’s Major Air Conditioning Equipment for Railway Coaches
• Songz’s Railway Vehicle Air Conditioning Output, Sales Volume & Inventory, 2014-2015
• Longertek Technology’s Major Urban Rail Transit Vehicle Air Conditioning
• Longertek Technology’s General Air Conditioning Units for Major Locomotives
• Longertek Technology’s Ultra-thin Air Conditioning Units for Major Locomotives
• Longertek Technology’s SIEMENS DJ-1 Air Conditioning Units for Electric Locomotives
• Longertek Technology’s Gross Industrial Output Value and Sales Value, 2014-2015
• Longertek Technology’s Rail Transit Vehicle Air Conditioning Technology Roadmap and Features
• Longertek Technology’s Rail Transit Vehicle Air Conditioning Technology Advantages
• COOLTEK’s Gross Industrial Output Value and Sales Value, 2014-2015
• Revenue and Operating Costs of Zhejiang Liebherr Zhongche Transportation Systems, 2014-2015
• Liebherr’s Rail Transit Vehicle Air Conditioning Circulation System Structure

Room 509, Building 1+1, No.10, Caihefang Road, Haidian District, Beijing, 100080
Phone: +86 10 82600828 ● Fax: +86 10 82601570 ● www.researchinchina.com ● report@researchinchina.com
You can place your order in the following alternative ways:

1. Order online at [www.researchinchina.com](http://www.researchinchina.com)
2. Fax order sheet to us at fax number: +86 10 82601570
3. Email your order to: report@researchinchina.com
4. Phone us at +86 10 82600828/ 82601561

Choose type of format

<table>
<thead>
<tr>
<th>Format</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDF (Single user license)</td>
<td>2,000 USD</td>
</tr>
<tr>
<td>Hard copy</td>
<td>2,200 USD</td>
</tr>
<tr>
<td>PDF (Enterprisewide license)</td>
<td>3,100 USD</td>
</tr>
</tbody>
</table>

Party A:

<table>
<thead>
<tr>
<th>Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
</tr>
<tr>
<td>Contact Person: Tel</td>
</tr>
<tr>
<td>E-mail: Fax</td>
</tr>
</tbody>
</table>

Party B:

<table>
<thead>
<tr>
<th>Name:</th>
<th>Beijing Waterwood Technologies Co., Ltd (ResearchInChina)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>Room 509, Building 1+1, No.10, Caiefang Road, Haidian District, Beijing, 100080</td>
</tr>
<tr>
<td>Contact Person: Phone</td>
<td>Liao Yan: 86-10-82600828</td>
</tr>
<tr>
<td>E-mail: Fax</td>
<td><a href="mailto:report@researchinchina.com">report@researchinchina.com</a> 86-10-82601570</td>
</tr>
</tbody>
</table>

Bank details:

- Beneficial Name: Beijing Waterwood Technologies Co., Ltd
- Bank Name: Bank of Communications, Beijing Branch
- Bank Address: NO.1 jinxiyuan shijicheng,landianchang,Haidian District,Beijing
- Bank Account No #: 110060668012015061217
- Routing No #: 332906
- Bank SWIFT Code: COMMCHNJBJG

Reports will be dispatched immediately once full payment has been received.
Payment may be made by wire transfer or credit card via PayPal.
About ResearchInChina

ResearchInChina (www.researchinchina.com) is a leading independent provider of China business intelligence. Our research is designed to meet the diverse planning and information needs of businesses, institutions, and professional investors worldwide. Our services are used in a variety of ways, including strategic planning, product and sales forecasting, risk and sensitivity management, and as investment research.

Our Major Activities

- Multi-users market reports
- Database-RICDB
- Custom Research
- Company Search

For any problems, please contact our service team at:

Room 502, Block 3, Tower C, Changyuan Tiandi Building, No. 18, Suzhou Street, Haidian District, Beijing, China 100080
Phone: +86 10 82600828 ● Fax: +86 10 82601570 ● www.researchinchina.com ● report@researchinchina.com