

China Chemical Engineering Design Industry Indepth Research and Investment Strategy Planning Report, 2013-2017

目 录

CONTENTS

Chapter 1: Analysis of Development of China Chemical Engineering Industry

1.1 Concept of Chemical Engineering Design

- 1.1.1 Definition of Chemical Engineering Design
- 1.1.2 Classification of Chemical Engineering Design
- 1.1.3 Working Procedure of Chemical Engineering Design

1.2 Analysis of Industrial Chain of Chemical Engineering Design

- 1.2.1 Industrial Chain Profile of Chemical Engineering Design
- 1.2.2 Analysis of Upstream Industries in Chemical Engineering Design
 - (1) Analysis of Development of Construction Materials Industry
 - (2) Analysis of Development of Engineering Machinery Industry
 - (3) Analysis of Development of Technical Software Package Industry

1.3 Development Status of Chemical Engineering Design

- 1.3.1 Development Overview of Chemical Engineering Design
 - (1) Development History of Engineering Survey and Design Industry
 - (2) Development History of Chemical Design Institute
 - (3) Analysis of Position of Chemical Engineering Design
- 1.3.2 Three Types of Companies in Chemical Engineering Design
 - (1) Large-sized Chemical Engineering Design Companies
 - (2) Foreign-funded Chemical Engineering Design Companies
 - (3) Small and Medium-sized Chemical Engineering Design Companies
- 1.3.3 Analysis of Operation of Chemical Engineering Design
 - (1) Employment Size of Chemical Engineering Design
 - (2) Sales Revenue Size of Chemical Engineering Design
 - (3) Analysis of Comprehensiveness of Chemical Engineering Design
- 1.3.4 Analysis of Competition of Chemical Engineering Design
 - (1) Analysis of Industry Concentration
 - (2) Analysis of Industry Bargaining Capability
 - (3) Analysis of Industry Potential Threats
 - (4) Analysis of Industry Competition
- 1.3.5 Analysis of Earning Changes in Chemical Engineering Design
- 1.3.6 Analysis of Factors to Impact Chemical Engineering Design

1.4 Analysis of Operation of Chemical Engineering Companies

- 1.4.1 Development Overview of China Chemical Engineering Design
- 1.4.2 Types of International Developed Engineering Design Institutes
- 1.4.3 Basic Features of Operation of Chemical Engineering Companies
- 1.4.4 Analysis of Operation Points for Chemical Engineering Companies
 - (1) Operation Factors of International Engineering Companies
 - (2) Engineering Company - Typical Projectized Organization
 - (3) Matrix Management for Projects in Engineering Companies

1.5 Analysis of Informationization of Chemical Engineering Design

- 1.5.1 Development Overview of Informationization of Engineering Survey and Design Industry
- 1.5.2 Necessity for Informationization Construction of Chemical Engineering Design
- 1.5.3 Goals for Informationization Construction of Chemical Engineering Design
- 1.5.4 Development Status of Informationization of Chemical Engineering Design
- 1.5.5 ERP System Application Situation in Chemical Engineering Design Companies
- 1.5.6 Problems in Informationization of Chemical Engineering Design
- 1.5.7 Development Strategies for Informationization of Chemical Engineering Design

Chapter 2: Analysis of Market Environment for China Chemical Design Industry

2.1 Analysis of Policy Environment for Chemical Engineering Design

- 2.1.1 Management System of Chemical Engineering Design
 - 2.1.2 Laws and Policies Related to Chemical Engineering Design
 - 2.1.3 Environmental Protection Policies Related to Chemical Engineering Design
 - 2.1.4 System Reform of Chemical Engineering Design
 - (1) System Reform Status of Engineering Survey and Design Industry
 - (2) Analysis of Reform Impact on Chemical Engineering Design
 - 2.2 Analysis of Economic Environment for Chemical Engineering Design**
 - 2.2.1 Analysis of Relation between Development of Chemical Industry and GDP
 - 2.2.2 Analysis of Size of Urban Fixed Asset Investment
 - 2.2.3 Analysis of National Industrial Value-added Growth
 - 2.3 Analysis of Social Environment for Chemical Engineering Design**
 - 2.3.1 Chemical Engineering Design and safety Production of Chemical Products
 - (1) Safety Production Situation of Dangerous Chemical Products
 - (2) Function of Chemical Engineering Safety Design
 - 2.3.2 Impact of Environmental Protection Requirements on Chemical Engineering Design
 - 2.3.3 Analysis of Development of Green Chemical Engineering Design
 - (1) Necessity for Green Chemical Engineering Design
 - (2) Development Direction for Green Chemical Engineering Design
 - 2.4 Analysis of Technology Environment for Chemical Engineering Design**
 - 2.4.1 Technology Development Level of Chemical Engineering Design
 - 2.4.2 Collaborative Development of Technology Innovation and Technical Standards for Companies
 - (1) Technology Innovation Theories and Technical Standards
 - (2) Relation between Technology Innovation/Technical Standards and Intellectual Property
 - (3) Experience and Cases of Engineering Design Companies
 - 2.4.3 Verified Proprietary Design Technology in the Industry
 - (1) Verified Proprietary Design Technology in.....2009
 - (2) Verified Proprietary Design Technology in.....2010
 - (3) Verified Proprietary Design Technology in.....2011
 - 2.4.4 Technology Innovation Achievements of Petrochemical Industry
 - (1) Technology Innovation within the Field of New Coal Chemical
 - (2) Technology Innovation Surrounding Corporate Core Competitiveness
 - (3) R&D Achievements of Major Core Patent Technologies
 - (4) Innovative Product Development Adjusted with Respect to Industry Structure
 - (5) Practical Technology Development with Respect to Energy Saving and Emission Reduction in the Industry
 - (6) Technical Equipment R&D of Petrochemical Industry
 - 2.4.5 Analysis of Green Chemical Engineering Design Technology
 - (1) Definition of Green Chemical Engineering Design Technology
 - (2) Typical of Green Chemical Engineering Design Technologies
 - (3) Development Trend for Green Chemical Engineering Design Technology
- Chapter 3: Analysis of Management Modes for China Chemical Engineering Design**
- 3.1 Analysis of Subcontract Management for Engineering Construction Companies**
 - 3.1.1 Structure and Subcontract Management of Subcontract-based Company
 - (1) Basic Concept of Subcontract Company
 - (2) Structure of Subcontract-based Company
 - (3) Features of Subcontract-based Company
 - 3.1.2 Internal Relation and Subcontract Management for Subcontract-based Company
 - (1) Analysis of Market Relation
 - (2) Analysis of Capital Relation
 - (3) Analysis of Corporate Formats
 - 3.1.3 Advantages and Subcontract Management of Subcontract-based Company
 - (1) Advantage of Big Firm Exteriorization
 - (2) Advantage of Long-term Transaction
 - (3) Advantage of Co-development
 - 3.2 Analysis of Quality Supervision and Management for Chemical Engineering**
 - 3.2.1 Transformation of Chemical Engineering Quality Supervision Function
 - 3.2.2 Quality Management Function of All Parties with Respect to Engineering Construction
 - (1) Management Function of Construction Departments
 - (2) Management Function of Design Departments

- (3) Management Function of Building Departments
- (4) Management Function of Supervision Departments

3.2.3 Advantages and Disadvantages of Quality Management for All Parties with Respect to Engineering Construction

- (1) Management Advantages and Disadvantages of Construction Departments
- (2) Management Advantages and Disadvantages of Design Departments
- (3) Management Advantages and Disadvantages of Building Departments
- (4) Management Advantages and Disadvantages of Supervision Departments

3.2.4 Problems in Quality Supervision of Chemical Engineering

3.2.5 Major Methods of Strengthening Engineering Quality Supervision

3.3 Analysis of Safety Management for Chemical Engineering Projects

3.3.1 Identification and Control Risks in Chemical Engineering Design

3.3.2 Analysis of Construction Safety Management for Chemical Engineering Projects

- (1) Construction Safety Management Status of Chemical Engineering
- (2) Construction Safety Management Problems in Chemical Engineering
- (3) Construction Safety Management Solutions for Chemical Engineering

3.3.3 Analysis of Risk Management for Oil Refinery Engineering Projects

- (1) Identification and Assessment for Risks in Oil Refinery Engineering Projects
- (2) Risk Management System Construction for Oil Refinery Engineering Projects
- (3) Risk Prevention and Control Strategies for Oil Refinery Engineering Projects
- (4) Risk Solutions for Oil Refinery Engineering Projects

3.4 Analysis of Chemical Engineering Cost Management Reform

3.4.1 Background of Chemical Engineering Cost Management Reform

3.4.2 Analysis of Chemical Engineering Cost Management Reform Status

- (1) Cost Engineer's Failure of Exercising Rights
- (2) Some Problems in EMC
- (3) Backward Informationization Management

3.4.3 Reform Measures for Chemical Engineering Cost Management

- (1) Advocate Human Control for Engineering Cost
- (2) Strengthen Contract Management
- (3) Effectively Strengthen Informationization Management of Engineering Cost

3.5 Analysis of Knowledge Management System for Chemical Engineering Companies

3.5.1 Concept of Knowledge Management

- (1) Life Cycle of Knowledge Management

3.5.2 Factors to Impact Knowledge Management in Chemical Engineering Companies

- (1) Organization Factors
- (2) Technical Factors
- (3) Cultural Factors
- (4) Stimulus Factors

3.5.3 Design of Knowledge Management System for Chemical Engineering Companies

- (1) Mode Design for Knowledge Management System
- (2) Structure Design for Knowledge Management System
- (3) Construction of Knowledge Warehouse and Knowledge Map for Engineering Companies
- (4) Stimulus Mechanism Design of Knowledge Management for Engineering Companies
- (5) Fostering of Knowledge Management Culture within Engineering Companies

3.5.4 Functions of Knowledge Management System of Engineering Companies

Chapter 4: Analysis of Market Demand for China Chemical Engineering Design

4.1 Analysis of Demand of International Chemical Engineering Design Market

4.1.1 Development Overview of International Chemical Engineering Design Market

4.1.2 Regional Distribution of International Chemical Engineering Design Market

4.1.3 Analysis of China's Foreign Chemical Engineering Design Market

- (1) Development Overview of China's Foreign Chemical Engineering Design Market
- (2) Corporate Distribution of China's Foreign Chemical Engineering Design Market

4.2 Analysis of Oil Refinery Chemical Engineering Design Market

4.2.1 Investment Status of Oil Refinery Chemical Industry

- (1) Analysis of Investment Size
- (2) Proposed Projects/Projects in Progress

4.2.2 Development Status of Oil Refinery Chemical Industry

- (1) Asset Size of Oil Refinery Chemical Industry

- (2) Refining Capability of Oil Refinery Chemical Industry
- (3) Corporate Distribution of Oil Refinery Chemical Industry
 - 1) Key Companies in Oil Refinery Chemical Industry
 - 2) Local Companies in Oil Refinery Chemical Industry
- (4) Capacity Distribution of Oil Refinery Chemical Industry
- (5) Market Status of Oil Refinery Chemical Engineering Design
- (6) Enterprise Pattern of Oil Refinery Chemical Engineering Design
- 4.2.3 Planning Related to Oil Refinery Chemical Engineering Construction
 - (1) Long-term Development Planning of Refinery Industry
 - (2) Adjustment and Revitalization Planning for Petrochemical Industry
 - (3) “Twelfth Five-year” Development Planning for Petrochemical and Chemical Industry
- 4.2.4 Market Prospects for Oil Refinery Chemical Engineering Design
 - (1) Development Driving Factors of Oil Refinery Chemical Industry
 - (2) Market Prospects for Oil Refinery Chemical Engineering Design
- 4.3 Analysis of Coal Chemical Engineering Design Market**
 - 4.3.1 Development Status of Coal Chemical Industry
 - (1) Overall Development Information of Traditional Coal Chemical Industry
 - (2) Development Status of Traditional Coal Chemical Industry
 - (3) Development Status of New-type Coal Chemical Industry
 - 1) Coal Gasification
 - 2) Indirect Coal Liquefaction
 - 3) Direct Coal Liquefaction
 - 4) Coal Chemical Products
 - 5) Comparison among New Coal Chemical Routes
 - (4) Restructuring and Integration of Coal Chemical Industry
 - 1) Restructuring and Integration in Provinces or Cities
 - 2) Restructuring and Integration in Companies
 - 4.3.2 Coal Chemical Engineering Construction Status
 - (1) Construction Conditions of Large-scale Coal Chemical Projects
 - (2) General Plan for Large-scale Coal Chemical Projects
 - (3) Coal Chemical Projects in Progress/Proposed Projects
 - 1) Coal-to-Alcohol Ether Project
 - 2) Coal-to-Olefins Project
 - 3) Coal-to-Oil Project
 - 4) Coal-to-Ethylene Glycol Project
 - 5) Coal-to-Natural Gas Project
 - 6) Synthesis Ammonia/Urea Project
 - 4.3.3 Analysis of Coal Chemical Engineering Design Market
 - (1) Development Status of Coal Chemical Engineering Design Market
 - (2) Analysis of Companies in Coal Chemical Engineering Design Market
 - 4.3.4 Plans Related to Coal Chemical Engineering Construction
 - (1) Medium- and Long-term Development Plan for Coal Chemical Industry
 - (2) Plan for Coal Intensive Processing Pilot Projects
 - (3) “Twelfth Five-year” Plan for Coal Industry
 - (4) “Twelfth Five-year” Plan for Methanol
 - (5) Revitalization Plan for Petrochemical Industry
 - (6) Plans Related to Coal Chemical in Provinces or Cities
 - 4.3.5 Market Prospects for Coal Chemical Engineering Design
 - (1) Driving Factors to Develop Coal Chemical Industry
 - (2) Market Prospects for Coal Chemical Engineering Design Market
- 4.4 Analysis of Fine Chemical Engineering Design Market**
 - 4.4.1 Investment Status of Fine Chemical Industry
 - (1) Analysis of Investment Size
 - (2) Main Bodies Composition of Investment
 - (3) Proposed Projects/Projects in Progress
 - 4.4.2 Development Status of Fine Chemical Industry
 - (1) Asset Size of Fine Chemical Industry
 - (2) Corporate Distribution of Fine Chemical Industry
 - (3) Capacity Distribution of Fine Chemical Industry

- 4.4.3 Analysis of Fine Chemical Engineering Design Market
 - (1) Development Status of Fine Chemical Engineering Design Market
 - (2) Analysis of Companies in Fine Chemical Engineering Design Market
- 4.4.4 Plans Related to Fine Chemical Engineering Construction
- 4.4.5 Market Prospects for Fine Chemical Engineering Design
 - (1) Driving Factors to Develop Fine Chemical Industry
 - (2) Market Prospects for Fine Chemical Engineering Design

4.5 Analysis of Fertilizer Engineering Design Market

- 4.5.1 Investment Status of Fertilizer Industry
 - (1) Analysis of Investment Size
 - (2) Proposed Projects/Projects in Progress
- 4.5.2 Development Status of Fertilizer Industry
 - (1) Asset Size of Fertilizer Industry
 - (2) Corporate Distribution of Fertilizer Industry
 - (3) Capacity Distribution of Fertilizer Industry
- 4.5.3 Analysis of Fertilizer Engineering Design Market
 - (1) Market Status of Fertilizer Engineering Design
 - (2) Enterprise Pattern of Fertilizer Engineering Design
- 4.5.4 Plans Related to Fertilizer Engineering Construction
- 4.5.5 Market Prospects for Fertilizer Engineering Design
 - (1) Driving Factors to Develop Fertilizer Industry
 - (2) Market Prospects for Fertilizer Engineering Design

Chapter 5: Case Study of China's Leading Chemical Engineering Design Companies

5.1 Analysis of Operation of Large-scale Chemical Engineering Design Companies

- 5.1.1 China National Chemical Engineering Co., Ltd.
 - (1) Development Overview
 - (2) Organization Structure
 - (3) Operation Situation
 - 1) Major Economic Indexes
 - 2) Analysis of Profitability
 - 3) Analysis of Debt-paying Ability
 - 4) Analysis of Operation Capability
 - 5) Analysis of Development Capability
 - (4) Qualifications for Chemical Engineering Business
 - (5) Main Operating Business and Cases
 - (6) Technological and R&D Strength
 - (7) Major Customers and Distribution
 - (8) SWOT Analysis of Operation
 - (9) Analysis of Latest Development Trend
 - (10) Latest Investment and Development Trend
- 5.1.2 China Huanqiu Contracting & Engineering Corporation
 - (1) Development Overview
 - (2) Organization Structure
 - (3) Operation Situation
 - (4) Qualifications for Chemical Engineering Business
 - (5) Main Operating Business and Cases
 - (6) Technological and R&D Strength
 - (7) Major Customers and Distribution
 - (8) SWOT Analysis of Operation
 - (9) Analysis of Development Strategies
 - (10) Latest Investment and Development Trend
- 5.1.3 East China Engineering Science and Technology Co., Ltd.
 - (1) Development Overview
 - (2) Organization Structure
 - (3) Operation Situation
 - 1) Major Economic Indexes
 - 2) Analysis of Profitability
 - 3) Analysis of Debt-paying Ability
 - 4) Analysis of Operation Capability

- 5) Analysis of Development Capability
- (4) Qualifications for Chemical Engineering Business
- (5) Main Operating Business and Cases
- (6) Technological and R&D Strength
- (7) Major Customers and Distribution
- (8) SWOT Analysis of Operation
- (9) Analysis of Development Strategies
- (10) Latest Investment and Development Trend
- 5.1.4 Sinopec Engineering Incorporation
 - (1) Development Overview
 - (2) Organization Structure
 - (3) Operation Situation
 - (4) Qualifications for Chemical Engineering Business
 - (5) Main Operating Business and Cases
 - (6) Technological and R&D Strength
 - (7) Major Customers and Distribution
 - (8) Analysis of Operational Advantages and Disadvantages
 - (9) Analysis of Development Strategies
 - (10) Latest Investment and Development Trend

如需了解报告详细内容，请直接致电前瞻客服中心。

全国免费服务热线：400-068-7188 0755-82925195 82925295 83586158

或发电子邮件：service@qianzhan.com

或登录网站：<https://bg.qianzhan.com/>

我们会竭诚为您服务！