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责任编辑 / 余竞雄  
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# 目 录

## CONTENTS

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### 一、综合

#### Chapter 1 General Survey

|      |                                                                                   |    |
|------|-----------------------------------------------------------------------------------|----|
| 1-1  | 能源生产、消费与国民经济增长速度 .....                                                            | 3  |
|      | Growth Rate of Energy Production and Consumption Compared with Growth Rate of GDP |    |
| 1-2  | 国民经济和能源经济主要指标 .....                                                               | 4  |
|      | Main Indicators of National Economy and Energy Economy                            |    |
| 1-3  | 平均每万元国内生产总值能源消费量 .....                                                            | 6  |
|      | Energy Intensity by GDP                                                           |    |
| 1-4  | 能源加工转换效率 .....                                                                    | 7  |
|      | Efficiency of Energy Transformation                                               |    |
| 1-5  | 人均能源生产量和消费量 .....                                                                 | 8  |
|      | Energy Production and Consumption Per Capita                                      |    |
| 1-6  | 人均生活用能量 .....                                                                     | 9  |
|      | Residential Energy Consumption Per Capita                                         |    |
| 1-7  | 年末交通运输设备拥有量 .....                                                                 | 10 |
|      | Number of Transportation Equipment ( Year-End )                                   |    |
| 1-8  | 主要能源品种进、出口量 .....                                                                 | 11 |
|      | Imports and Exports of Major Energy Products                                      |    |
| 1-9  | 主要高耗能产品的进、出口量 .....                                                               | 12 |
|      | Imports and Exports of Energy Intensive Products                                  |    |
| 1-10 | 分地区工业废气排放量 .....                                                                  | 13 |
|      | Emission of Industrial Waste Gas by Region                                        |    |
| 1-11 | 分地区工业废水排放及处理情况 .....                                                              | 14 |
|      | Discharge and Treatment of Industrial Waste Water by Region                       |    |

### 二、能源建设

#### Chapter 2 Construction of Energy Industry

|     |                                                                                   |    |
|-----|-----------------------------------------------------------------------------------|----|
| 2-1 | 国有经济能源工业分行业固定资产投资 .....                                                           | 17 |
|     | Investment in Fixed Assets of State-Owned Units in Energy Industry                |    |
| 2-2 | 国有经济能源工业分行业固定资产投资构成 .....                                                         | 17 |
|     | Proportions of Investment in Fixed Assets of State-Owned Units in Energy Industry |    |
| 2-3 | 分地区国有经济能源工业固定资产投资 .....                                                           | 18 |
|     | Investment in Fixed Assets of State-Owned Units in Energy Industry by Region      |    |
| 2-4 | 分地区国有经济煤炭采选业固定资产投资 .....                                                          | 19 |

|      |                                                                                                                     |    |
|------|---------------------------------------------------------------------------------------------------------------------|----|
|      | Investment in Fixed Assets of State-Owned Units in Coal Mining and Processing by Region                             |    |
| 2-5  | 分地区国有经济石油和天然气开采业固定资产投资 .....                                                                                        | 20 |
|      | Investment in Fixed Assets of State-Owned Units in Petroleum and Natural Gas Extraction by Region                   |    |
| 2-6  | 分地区国有经济电力、蒸汽、热水生产和供应业固定资产投资 .....                                                                                   | 21 |
|      | Investment in Fixed Assets of State-Owned Units in Electricity, Steam, Hot Water<br>Production and Supply by Region |    |
| 2-7  | 分地区国有经济石油加工及炼焦业固定资产投资 .....                                                                                         | 22 |
|      | Investment in Fixed Assets of State-Owned Units in Petroleum Processing and Coking by Region                        |    |
| 2-8  | 分地区国有经济煤气生产和供应业固定资产投资 .....                                                                                         | 23 |
|      | Investment in Fixed Assets of State-Owned Units in Gas Producing and Supply by Region                               |    |
| 2-9  | 城镇能源工业分行业投资 .....                                                                                                   | 24 |
|      | Investment of Urban in Energy Industry                                                                              |    |
| 2-10 | 城镇能源工业分行业投资构成 .....                                                                                                 | 24 |
|      | Investment of Urban in Energy Industry by Proportions                                                               |    |
| 2-11 | 各地区城镇能源工业投资 .....                                                                                                   | 25 |
|      | Investment of Urban in Energy Industry by Region                                                                    |    |
| 2-12 | 分地区煤炭采选业城镇投资 .....                                                                                                  | 26 |
|      | Investment of Urban in Coal Mining and Processing by Region                                                         |    |
| 2-13 | 分地区石油和天然气开采业城镇投资 .....                                                                                              | 27 |
|      | Investment of Urban in Petroleum and Natural Gas Extraction by Region                                               |    |
| 2-14 | 分地区电力、蒸汽、热水生产和供应业城镇投资 .....                                                                                         | 28 |
|      | Investment of Urban in Electricity, Steam, Hot Water Producing and Supply by Region                                 |    |
| 2-15 | 分地区石油加工及炼焦业城镇投资 .....                                                                                               | 29 |
|      | Investment of Urban in Petroleum Processing and Coking by Region                                                    |    |
| 2-16 | 分地区煤气生产和供应业城镇投资 .....                                                                                               | 30 |
|      | Investment of Urban in Gas Producing and Supply by Region                                                           |    |

### 三、能源生产

#### Chapter 3 Energy Production

|     |                                           |    |
|-----|-------------------------------------------|----|
| 3-1 | 一次能源生产量和构成 .....                          | 33 |
|     | Primary Energy Production and Composition |    |
| 3-2 | 分地区原煤生产量 .....                            | 35 |
|     | Coal Production by Region                 |    |
| 3-3 | 分地区焦炭生产量 .....                            | 36 |
|     | Coke Production by Region                 |    |
| 3-4 | 分地区原油生产量 .....                            | 37 |
|     | Crude Oil Production by Region            |    |
| 3-5 | 分地区燃料油生产量 .....                           | 38 |
|     | Fuel Oil Production by Region             |    |
| 3-6 | 分地区汽油生产量 .....                            | 39 |
|     | Gasoline Production by Region             |    |
| 3-7 | 分地区煤油生产量 .....                            | 40 |
|     | Kerosene Production by Region             |    |
| 3-8 | 分地区柴油生产量 .....                            | 41 |



|      |                                                               |    |
|------|---------------------------------------------------------------|----|
|      | Diesel Oil Production by Region                               |    |
| 3-9  | 分地区天然气生产量 .....                                               | 42 |
|      | Natural Gas Production by Region                              |    |
| 3-10 | 分地区发电量 .....                                                  | 43 |
|      | Power Generation by Region                                    |    |
| 3-11 | 分地区水力发电量 .....                                                | 44 |
|      | Hydro Power Generation by Region                              |    |
| 3-12 | 分地区火力发电量 .....                                                | 45 |
|      | Thermal Power Generation by Region                            |    |
| 3-13 | 分地区城市天然气供应情况 .....                                            | 46 |
|      | Basic Statistics on Supply of Natural Gas in Cities by Region |    |
| 3-14 | 分地区城市人工煤气供应情况 .....                                           | 47 |
|      | Basic Statistics on Supply of Coal Gas in Cities by Region    |    |
| 3-15 | 分地区城市液化石油气供应情况 .....                                          | 48 |
|      | Basic Statistics on Supply of LPG in Cities by Region         |    |
| 3-16 | 分地区城市集中供热情况 .....                                             | 49 |
|      | Basic Statistics on Heating Supply in Cities by Region        |    |

#### 四、能源消费

#### Chapter 4 Energy Consumption

|      |                                                                         |    |
|------|-------------------------------------------------------------------------|----|
| 4-1  | 能源消费总量和构成 .....                                                         | 52 |
|      | Total Energy Consumption and Composition                                |    |
| 4-2  | 工业分行业终端能源消费量 (实物量) -1996 .....                                          | 54 |
|      | Final Energy Consumption by Industrial Sector -1996 (Physical Quantity) |    |
| 4-3  | 工业分行业终端能源消费量 (实物量) -1997 .....                                          | 58 |
|      | Final Energy Consumption by Industrial Sector -1997 (Physical Quantity) |    |
| 4-4  | 工业分行业终端能源消费量 (实物量) -1998 .....                                          | 62 |
|      | Final Energy Consumption by Industrial Sector -1998 (Physical Quantity) |    |
| 4-5  | 工业分行业终端能源消费量 (实物量) -1999 .....                                          | 66 |
|      | Final Energy Consumption by Industrial Sector -1999 (Physical Quantity) |    |
| 4-6  | 工业分行业终端能源消费量 (实物量) -2000 .....                                          | 70 |
|      | Final Energy Consumption by Industrial Sector -2000 (Physical Quantity) |    |
| 4-7  | 工业分行业终端能源消费量 (实物量) -2001 .....                                          | 74 |
|      | Final Energy Consumption by Industrial Sector -2001 (Physical Quantity) |    |
| 4-8  | 工业分行业终端能源消费量 (实物量) -2002 .....                                          | 78 |
|      | Final Energy Consumption by Industrial Sector -2002 (Physical Quantity) |    |
| 4-9  | 工业分行业终端能源消费量 (实物量) -2003 .....                                          | 82 |
|      | Final Energy Consumption by Industrial Sector -2003 (Physical Quantity) |    |
| 4-10 | 工业分行业终端能源消费量 (实物量) -2004 .....                                          | 86 |
|      | Final Energy Consumption by Industrial Sector -2004 (Physical Quantity) |    |
| 4-11 | 工业分行业终端能源消费量 (实物量) -2005 .....                                          | 90 |
|      | Final Energy Consumption by Industrial Sector -2005 (Physical Quantity) |    |
| 4-12 | 工业分行业终端能源消费量 (实物量) -2006 .....                                          | 94 |

|      |                                                                         |     |
|------|-------------------------------------------------------------------------|-----|
|      | Final Energy Consumption by Industrial Sector -2006 (Physical Quantity) |     |
| 4-13 | 工业分行业终端能源消费量 (实物量) -2007.....                                           | 98  |
|      | Final Energy Consumption by Industrial Sector -2007 (Physical Quantity) |     |
| 4-14 | 工业分行业终端能源消费量 (实物量) -2008.....                                           | 102 |
|      | Final Energy Consumption by Industrial Sector -2008 (Physical Quantity) |     |
| 4-15 | 工业分行业终端能源消费量 (标准量) -1996.....                                           | 106 |
|      | Final Energy Consumption by Industrial Sector -1996 (Standard Quantity) |     |
| 4-16 | 工业分行业终端能源消费量 (标准量) -1997.....                                           | 110 |
|      | Final Energy Consumption by Industrial Sector -1997 (Standard Quantity) |     |
| 4-17 | 工业分行业终端能源消费量 (标准量) -1998.....                                           | 114 |
|      | Final Energy Consumption by Industrial Sector -1998 (Standard Quantity) |     |
| 4-18 | 工业分行业终端能源消费量 (标准量) -1999.....                                           | 118 |
|      | Final Energy Consumption by Industrial Sector -1999 (Standard Quantity) |     |
| 4-19 | 工业分行业终端能源消费量 (标准量) -2000.....                                           | 122 |
|      | Final Energy Consumption by Industrial Sector -2000 (Standard Quantity) |     |
| 4-20 | 工业分行业终端能源消费量 (标准量) -2001.....                                           | 126 |
|      | Final Energy Consumption by Industrial Sector -2001 (Standard Quantity) |     |
| 4-21 | 工业分行业终端能源消费量 (标准量) -2002.....                                           | 130 |
|      | Final Energy Consumption by Industrial Sector -2002 (Standard Quantity) |     |
| 4-22 | 工业分行业终端能源消费量 (标准量) -2003.....                                           | 134 |
|      | Final Energy Consumption by Industrial Sector -2003 (Standard Quantity) |     |
| 4-23 | 工业分行业终端能源消费量 (标准量) -2004.....                                           | 138 |
|      | Final Energy Consumption by Industrial Sector -2004 (Standard Quantity) |     |
| 4-24 | 工业分行业终端能源消费量 (标准量) -2005.....                                           | 142 |
|      | Final Energy Consumption by Industrial Sector -2005 (Standard Quantity) |     |
| 4-25 | 工业分行业终端能源消费量 (标准量) -2006.....                                           | 146 |
|      | Final Energy Consumption by Industrial Sector -2006 (Standard Quantity) |     |
| 4-26 | 工业分行业终端能源消费量 (标准量) -2007.....                                           | 150 |
|      | Final Energy Consumption by Industrial Sector -2007 (Standard Quantity) |     |
| 4-27 | 工业分行业终端能源消费量 (标准量) -2008.....                                           | 154 |
|      | Final Energy Consumption by Industrial Sector -2008 (Standard Quantity) |     |
| 4-28 | 分行业能源消费总量 .....                                                         | 158 |
|      | Consumption of Total Energy and Its Main Varieties by Sector            |     |
| 4-29 | 分行业煤炭消费总量 .....                                                         | 162 |
|      | Consumption of Coal and Its Main Varieties by Sector                    |     |
| 4-30 | 分行业焦炭消费总量 .....                                                         | 166 |
|      | Consumption of Coke and Its Main Varieties by Sector                    |     |
| 4-31 | 分行业原油消费总量 .....                                                         | 170 |
|      | Consumption of Crude Oil and Its Main Varieties by Sector               |     |
| 4-32 | 分行业汽油消费总量 .....                                                         | 174 |
|      | Consumption of Gasoline and Its Main Varieties by Sector                |     |
| 4-33 | 分行业煤油消费总量 .....                                                         | 178 |
|      | Consumption of Kerosene and Its Main Varieties by Sector                |     |

|      |                                                             |     |
|------|-------------------------------------------------------------|-----|
| 4-34 | 分行业柴油消费总量 .....                                             | 182 |
|      | Consumption of Diesel Oil and Its Main Varieties by Sector  |     |
| 4-35 | 分行业燃料油消费总量 .....                                            | 186 |
|      | Consumption of Fuel Oil and Its Main Varieties by Sector    |     |
| 4-36 | 分行业天然气消费总量 .....                                            | 190 |
|      | Consumption of Natural Gas and Its Main Varieties by Sector |     |
| 4-37 | 分行业电力消费总量 .....                                             | 194 |
|      | Consumption of Electricity and Its Main Varieties by Sector |     |
| 4-38 | 分地区能源消费总量 .....                                             | 198 |
|      | Total Energy Consumption by Region                          |     |
| 4-39 | 分地区煤炭消费量 .....                                              | 199 |
|      | Coal Consumption by Region                                  |     |
| 4-40 | 分地区焦炭消费量 .....                                              | 200 |
|      | Coke Consumption by Region                                  |     |
| 4-41 | 分地区原油消费量 .....                                              | 201 |
|      | Crude Oil Consumption by Region                             |     |
| 4-42 | 分地区燃料油消费量 .....                                             | 202 |
|      | Fuel Oil Consumption by Region                              |     |
| 4-43 | 分地区汽油消费量 .....                                              | 203 |
|      | Gasoline Consumption by Region                              |     |
| 4-44 | 分地区煤油消费量 .....                                              | 204 |
|      | Kerosene Consumption by Region                              |     |
| 4-45 | 分地区柴油消费量 .....                                              | 205 |
|      | Diesel Oil Consumption by Region                            |     |
| 4-46 | 分地区天然气消费量 .....                                             | 206 |
|      | Natural Gas Consumption by Region                           |     |
| 4-47 | 分地区电力消费量 .....                                              | 207 |
|      | Electricity Consumption by Region                           |     |

## 五、全国能源平衡表

### Chapter 5 Energy Balance Table of China

|     |                                                   |     |
|-----|---------------------------------------------------|-----|
| 5-1 | 中国能源平衡表(实物量) -1996 .....                          | 210 |
|     | Energy Balance of China -1996 (Physical Quantity) |     |
| 5-2 | 中国能源平衡表(实物量) -1997 .....                          | 214 |
|     | Energy Balance of China -1997 (Physical Quantity) |     |
| 5-3 | 中国能源平衡表(实物量) -1998 .....                          | 218 |
|     | Energy Balance of China -1998 (Physical Quantity) |     |
| 5-4 | 中国能源平衡表(实物量) -1999 .....                          | 222 |
|     | Energy Balance of China -1999 (Physical Quantity) |     |
| 5-5 | 中国能源平衡表(实物量) -2000 .....                          | 226 |
|     | Energy Balance of China -2000 (Physical Quantity) |     |
| 5-6 | 中国能源平衡表(实物量) -2001 .....                          | 230 |
|     | Energy Balance of China -2001 (Physical Quantity) |     |

|      |                                                   |     |
|------|---------------------------------------------------|-----|
| 5-7  | 中国能源平衡表(实物量) -2002 .....                          | 234 |
|      | Energy Balance of China -2002 (Physical Quantity) |     |
| 5-8  | 中国能源平衡表(实物量) -2003 .....                          | 238 |
|      | Energy Balance of China -2003 (Physical Quantity) |     |
| 5-9  | 中国能源平衡表(实物量) -2004 .....                          | 242 |
|      | Energy Balance of China -2004 (Physical Quantity) |     |
| 5-10 | 中国能源平衡表(实物量) -2005 .....                          | 246 |
|      | Energy Balance of China -2005 (Physical Quantity) |     |
| 5-11 | 中国能源平衡表(实物量) -2006 .....                          | 250 |
|      | Energy Balance of China -2006 (Physical Quantity) |     |
| 5-12 | 中国能源平衡表(实物量) -2007 .....                          | 254 |
|      | Energy Balance of China -2007 (Physical Quantity) |     |
| 5-13 | 中国能源平衡表(实物量) -2008 .....                          | 258 |
|      | Energy Balance of China -2008 (Physical Quantity) |     |
| 5-14 | 中国能源平衡表(标准量) -1996 .....                          | 262 |
|      | Energy Balance of China -1996 (Standard Quantity) |     |
| 5-15 | 中国能源平衡表(标准量) -1997 .....                          | 266 |
|      | Energy Balance of China -1997 (Standard Quantity) |     |
| 5-16 | 中国能源平衡表(标准量) -1998 .....                          | 270 |
|      | Energy Balance of China -1998 (Standard Quantity) |     |
| 5-17 | 中国能源平衡表(标准量) -1999 .....                          | 274 |
|      | Energy Balance of China -1999 (Standard Quantity) |     |
| 5-18 | 中国能源平衡表(标准量) -2000 .....                          | 278 |
|      | Energy Balance of China -2000 (Standard Quantity) |     |
| 5-19 | 中国能源平衡表(标准量) -2001 .....                          | 282 |
|      | Energy Balance of China -2001 (Standard Quantity) |     |
| 5-20 | 中国能源平衡表(标准量) -2002 .....                          | 286 |
|      | Energy Balance of China -2002 (Standard Quantity) |     |
| 5-21 | 中国能源平衡表(标准量) -2003 .....                          | 290 |
|      | Energy Balance of China -2003 (Standard Quantity) |     |
| 5-22 | 中国能源平衡表(标准量) -2004 .....                          | 294 |
|      | Energy Balance of China -2004 (Standard Quantity) |     |
| 5-23 | 中国能源平衡表(标准量) -2005 .....                          | 298 |
|      | Energy Balance of China -2005 (Standard Quantity) |     |
| 5-24 | 中国能源平衡表(标准量) -2006 .....                          | 302 |
|      | Energy Balance of China -2006 (Standard Quantity) |     |
| 5-25 | 中国能源平衡表(标准量) -2007 .....                          | 306 |
|      | Energy Balance of China -2007 (Standard Quantity) |     |
| 5-26 | 中国能源平衡表(标准量) -2008 .....                          | 310 |
|      | Energy Balance of China -2008 (Standard Quantity) |     |
| 5-27 | 综合能源平衡表 .....                                     | 314 |
|      | Overall Energy Balance Sheet                      |     |



|      |                           |     |
|------|---------------------------|-----|
| 5-28 | 煤炭平衡表 .....               | 318 |
|      | Coal Balance Sheet        |     |
| 5-29 | 焦炭平衡表 .....               | 322 |
|      | Coke Balance Sheet        |     |
| 5-30 | 石油平衡表 .....               | 324 |
|      | Petroleum Balance Sheet   |     |
| 5-31 | 原油平衡表 .....               | 326 |
|      | Crude Oil Balance Sheet   |     |
| 5-32 | 燃料油平衡表 .....              | 328 |
|      | Fuel Oil Balance Sheet    |     |
| 5-33 | 汽油平衡表 .....               | 330 |
|      | Gasoline Balance Sheet    |     |
| 5-34 | 煤油平衡表 .....               | 332 |
|      | Kerosene Balance Sheet    |     |
| 5-35 | 柴油平衡表 .....               | 334 |
|      | Diesel Oil Balance Sheet  |     |
| 5-36 | 液化石油气平衡表 .....            | 336 |
|      | LPG Balance Sheet         |     |
| 5-37 | 天然气平衡表 .....              | 338 |
|      | Natural Gas Balance Sheet |     |
| 5-38 | 电力平衡表 .....               | 340 |
|      | Electricity Balance Sheet |     |

## 六、地区能源平衡表

### Chapter 6 Energy Balance Table by Region

|     |                                                            |     |
|-----|------------------------------------------------------------|-----|
| 6-1 | 北京能源平衡表 (实物量) -2008 .....                                  | 344 |
|     | Energy Balance of Beijing -2008 (Physical Quantity)        |     |
| 6-2 | 天津能源平衡表 (实物量) -2008 .....                                  | 348 |
|     | Energy Balance of Tianjin -2008 (Physical Quantity)        |     |
| 6-3 | 河北能源平衡表(实物量) -2008 .....                                   | 352 |
|     | Energy Balance of Hebei -2008 (Physical Quantity)          |     |
| 6-4 | 山西能源平衡表(实物量) -2008 .....                                   | 356 |
|     | Energy Balance of Shanxi -2008 (Physical Quantity)         |     |
| 6-5 | 内蒙古能源平衡表(实物量) -2008 .....                                  | 360 |
|     | Energy Balance of Inner Mongolia -2008 (Physical Quantity) |     |
| 6-6 | 辽宁能源平衡表(实物量) -2008 .....                                   | 364 |
|     | Energy Balance of Liaoning -2008 (Physical Quantity)       |     |
| 6-7 | 吉林能源平衡表(实物量) -2008 .....                                   | 368 |
|     | Energy Balance of Jilin -2008 (Physical Quantity)          |     |
| 6-8 | 黑龙江能源平衡表(实物量) -2008 .....                                  | 372 |
|     | Energy Balance of Heilongjiang -2008 (Physical Quantity)   |     |
| 6-9 | 上海能源平衡表(实物量) -2008 .....                                   | 376 |
|     | Energy Balance of Shanghai -2008 (Physical Quantity)       |     |

|      |                                                       |     |
|------|-------------------------------------------------------|-----|
| 6-10 | 江苏能源平衡表(实物量) -2008 .....                              | 380 |
|      | Energy Balance of Jiangsu -2008 (Physical Quantity)   |     |
| 6-11 | 浙江能源平衡表(实物量)-2008 .....                               | 384 |
|      | Energy Balance of Zhejiang -2008 (Physical Quantity)  |     |
| 6-12 | 安徽能源平衡表(实物量) -2008 .....                              | 388 |
|      | Energy Balance of Anhui-2008 (Physical Quantity)      |     |
| 6-13 | 福建能源平衡表(实物量) -2008 .....                              | 392 |
|      | Energy Balance of Fujian -2008 (Physical Quantity)    |     |
| 6-14 | 江西能源平衡表(实物量) -2008 .....                              | 396 |
|      | Energy Balance of Jiangxi -2008 (Physical Quantity)   |     |
| 6-15 | 山东能源平衡表(实物量) -2008 .....                              | 400 |
|      | Energy Balance of Shandong -2008 (Physical Quantity)  |     |
| 6-16 | 河南能源平衡表(实物量)-2008 .....                               | 404 |
|      | Energy Balance of Henan -2008 (Physical Quantity)     |     |
| 6-17 | 湖北能源平衡表(实物量) -2008 .....                              | 408 |
|      | Energy Balance of Hubei -2008 (Physical Quantity)     |     |
| 6-18 | 湖南能源平衡表(实物量) -2008 .....                              | 412 |
|      | Energy Balance of Hunan -2008 (Physical Quantity)     |     |
| 6-19 | 广东能源平衡表(实物量) -2008 .....                              | 416 |
|      | Energy Balance of Guangdong -2008 (Physical Quantity) |     |
| 6-20 | 广西能源平衡表(实物量) -2008 .....                              | 420 |
|      | Energy Balance of Guangxi -2008 (Physical Quantity)   |     |
| 6-21 | 海南能源平衡表(实物量) -2008 .....                              | 424 |
|      | Energy Balance of Hainan -2008 (Physical Quantity)    |     |
| 6-22 | 重庆能源平衡表(实物量) -2008 .....                              | 428 |
|      | Energy Balance of Chongqing -2008 (Physical Quantity) |     |
| 6-23 | 四川能源平衡表(实物量) -2008 .....                              | 432 |
|      | Energy Balance of Sichuan -2008 (Physical Quantity)   |     |
| 6-24 | 贵州能源平衡表(实物量) -2008 .....                              | 436 |
|      | Energy Balance of Guizhou -2008 (Physical Quantity)   |     |
| 6-25 | 云南能源平衡表(实物量) -2008 .....                              | 440 |
|      | Energy Balance of Yunnan -2008 (Physical Quantity)    |     |
| 6-26 | 陕西能源平衡表(实物量) -2008 .....                              | 444 |
|      | Energy Balance of Shaanxi -2008 (Physical Quantity)   |     |
| 6-27 | 甘肃能源平衡表(实物量) -2008 .....                              | 448 |
|      | Energy Balance of Gansu -2008 (Physical Quantity)     |     |
| 6-28 | 青海能源平衡表(实物量) -2008 .....                              | 452 |
|      | Energy Balance of Qinghai -2008 (Physical Quantity)   |     |
| 6-29 | 宁夏能源平衡表(实物量) -2008 .....                              | 456 |
|      | Energy Balance of Ningxia -2008 (Physical Quantity)   |     |
| 6-30 | 新疆能源平衡表(实物量) -2008 .....                              | 460 |
|      | Energy Balance of Xinjiang -2008 (Physical Quantity)  |     |

## 七、香港、澳门特别行政区能源数据

### Chapter 7 Energy Data for Hong Kong and Macao Special Administrative Region

|     |                                                                    |     |
|-----|--------------------------------------------------------------------|-----|
| 7-1 | 香港主要能源及相关指标.....                                                   | 467 |
|     | Major Energy and Related Indicators of Hong Kong                   |     |
| 7-2 | 香港电力和煤气消费量.....                                                    | 468 |
|     | Consumption of Electricity and Gas of Hong Kong                    |     |
| 7-3 | 香港油产品进口留用量.....                                                    | 468 |
|     | Hong Kong Retained Imports of Oil Products                         |     |
| 7-4 | 香港煤产品进口留用量.....                                                    | 469 |
|     | Hong Kong Retained Imports of Coal Products                        |     |
| 7-5 | 香港电力生产、消费和进出口.....                                                 | 469 |
|     | Hong Kong Electricity Production, Consumption, Imports and Exports |     |
| 7-6 | 澳门主要能源及相关指标.....                                                   | 470 |
|     | Major Energy and Related Indicators of Macao                       |     |
| 7-7 | 澳门能源平衡表.....                                                       | 470 |
|     | Macao Energy Balance Table                                         |     |

## 附录 1、台湾省能源数据

### Appendix I Energy Data for Taiwan Province

|        |                                                              |     |
|--------|--------------------------------------------------------------|-----|
| 附录 1-1 | 台湾省主要能源及相关指标.....                                            | 473 |
|        | Major Energy and Related Indicators of Taiwan Province       |     |
| 附录 1-2 | 台湾省分行业电力消费量.....                                             | 473 |
|        | Taiwan Province Electricity Consumption by Sector            |     |
| 附录 1-3 | 台湾省能源供给总量及构成.....                                            | 474 |
|        | Taiwan Province Energy Supply and Composition                |     |
| 附录 1-4 | 台湾省能源消费总量及分部门消费构成.....                                       | 474 |
|        | Taiwan Province Energy Consumption and Composition by Sector |     |
| 附录 1-5 | 台湾省电力生产量和消费量.....                                            | 474 |
|        | Taiwan Province Electricity Production and Consumption       |     |

## 附录 2、有关国家和地区能源数据

### Appendix II Energy Data for Related Countries or Areas

|        |                                                                    |     |
|--------|--------------------------------------------------------------------|-----|
| 附录 2-1 | 年中人口数.....                                                         | 477 |
|        | Mid-Year Population                                                |     |
| 附录 2-2 | 国内生产总值汇率算法(2000 年价格).....                                          | 478 |
|        | Gross Domestic Products Using Exchange Rates (US\$2000)            |     |
| 附录 2-3 | 国内生产总值购买力平价算法(2000 年价格).....                                       | 479 |
|        | Gross Domestic Products Using Purchasing Power Parities (US\$2000) |     |
| 附录 2-4 | 能源生产总量.....                                                        | 480 |
|        | Total Energy Production                                            |     |
| 附录 2-5 | 能源生产量/一次能源供应(能源自给率).....                                           | 481 |
|        | Energy Production/TPES(Self Sufficiency)                           |     |

|         |                                                                                                                     |
|---------|---------------------------------------------------------------------------------------------------------------------|
| 附录 2-6  | 能源供应量/GDP (吨标准油/千美元 2000 年价格) .....482<br>TPES/GDP(toe per thousand 2000 US\$)                                      |
| 附录 2-7  | 人均能源供应量 (吨标准油/人) .....483<br>TPES/ Population (toe per capita)                                                      |
| 附录 2-8  | 煤生产量 .....484<br>Coal Production                                                                                    |
| 附录 2-9  | 原油和天然气凝析液(NGL)生产量 .....484<br>Crude Oil Production                                                                  |
| 附录 2-10 | 天然气生产量 .....485<br>Natural Gas Production                                                                           |
| 附录 2-11 | 总发电量及核发电量(2007 年).....486<br>Total Production of Electricity and Nuclear Electricity (2007)                         |
| 附录 2-12 | 能源最终消费量 .....487<br>Total Final Energy Consumption                                                                  |
| 附录 2-13 | 煤的一次供应量 .....488<br>Primary Supply of Coal                                                                          |
| 附录 2-14 | 石油的一次供应量.....489<br>Primary Supply of Oil                                                                           |
| 附录 2-15 | 天然气供应量 .....490<br>Primary Supply of Gas                                                                            |
| 附录 2-16 | 国内生产总值电耗 (千瓦时/美元 2000 年价) .....491<br>Electricity Consumption/GDP(kW • h per 2000 US\$)                             |
| 附录 2-17 | 人均电力消费量 (千瓦时/人) .....491<br>Electricity Consumption / Population (kW • h per capita)                                |
| 附录 2-18 | 煤净进口量 .....492<br>Net Import of Hard Coal                                                                           |
| 附录 2-19 | 石油净进口量 .....493<br>Net Import of Oil                                                                                |
| 附录 2-20 | 天然气净进口量 .....494<br>Net Import of Natural Gas                                                                       |
| 附录 2-21 | 主要高耗能产品单位能耗中外比较 .....495<br>Energy Consumption for Main Energy Intensive by Comparing China with Selected Countries |
| 附录 3    | 主要统计指标解释.....501<br><b>Appendix III Explanatory Notes of Main Statistical Indicators</b>                            |
| 附录 4    | 各种能源折标准煤参考系数 .....507<br><b>Appendix IV Conversion Factors from Physical Units to Coal Equivalent</b>               |

# 一、综 合

## Chapter 1 General Survey





# 1-1 能源生产、消费与国民经济增长速度

## GROWTH RATE OF ENERGY PRODUCTION AND CONSUMPTION COMPARED WITH GROWTH RATE OF GDP

| 年 份  | 国内生产总值<br>增长速度<br>(%)        | 能源生产<br>增长速度<br>(%)                    | 电力生产<br>增长速度<br>(%)                         | 能源消费<br>增长速度<br>(%)                     | 电力消费<br>增长速度<br>(%)                          | 能源生产<br>弹性系数                          | 电力生产<br>弹性系数                               | 能源消费<br>弹性系数                           | 电力消费<br>弹性系数                                |
|------|------------------------------|----------------------------------------|---------------------------------------------|-----------------------------------------|----------------------------------------------|---------------------------------------|--------------------------------------------|----------------------------------------|---------------------------------------------|
| Year | Growth Rate<br>of GDP<br>(%) | Growth Rate<br>of Energy<br>Production | Growth Rate<br>of Electricity<br>Production | Growth Rate<br>of Energy<br>Consumption | Growth Rate<br>of Electricity<br>Consumption | Elasticity of<br>Energy<br>Production | Elasticity of<br>Electricity<br>Production | Elasticity<br>of Energy<br>Consumption | Elasticity of<br>Electricity<br>Consumption |
| 1980 | 7.8                          | -1.3                                   | 6.6                                         | 2.9                                     | 6.6                                          |                                       | 0.85                                       | 0.37                                   | 0.85                                        |
| 1981 | 5.2                          | -0.8                                   | 2.9                                         | -1.4                                    | 3.0                                          |                                       | 0.56                                       |                                        | 0.58                                        |
| 1982 | 9.1                          | 5.6                                    | 6.0                                         | 4.4                                     | 5.9                                          | 0.62                                  | 0.66                                       | 0.48                                   | 0.65                                        |
| 1983 | 10.9                         | 6.7                                    | 7.2                                         | 6.4                                     | 7.3                                          | 0.61                                  | 0.66                                       | 0.59                                   | 0.67                                        |
| 1984 | 15.2                         | 9.2                                    | 7.3                                         | 7.4                                     | 7.4                                          | 0.61                                  | 0.48                                       | 0.49                                   | 0.49                                        |
| 1985 | 13.5                         | 9.9                                    | 8.9                                         | 8.1                                     | 9.0                                          | 0.73                                  | 0.66                                       | 0.60                                   | 0.67                                        |
| 1986 | 8.8                          | 3.0                                    | 9.5                                         | 5.4                                     | 9.5                                          | 0.34                                  | 1.08                                       | 0.61                                   | 1.08                                        |
| 1987 | 11.6                         | 3.6                                    | 10.6                                        | 7.2                                     | 10.6                                         | 0.31                                  | 0.91                                       | 0.62                                   | 0.91                                        |
| 1988 | 11.3                         | 5.0                                    | 9.6                                         | 7.4                                     | 9.7                                          | 0.44                                  | 0.85                                       | 0.65                                   | 0.86                                        |
| 1989 | 4.1                          | 6.1                                    | 7.3                                         | 4.2                                     | 7.3                                          | 1.49                                  | 1.77                                       | 1.03                                   | 1.78                                        |
| 1990 | 3.8                          | 2.2                                    | 6.2                                         | 1.8                                     | 6.2                                          | 0.58                                  | 1.63                                       | 0.47                                   | 1.63                                        |
| 1991 | 9.2                          | 0.9                                    | 9.1                                         | 5.1                                     | 9.2                                          | 0.10                                  | 0.99                                       | 0.55                                   | 1.00                                        |
| 1992 | 14.2                         | 2.3                                    | 11.3                                        | 5.2                                     | 11.5                                         | 0.16                                  | 0.80                                       | 0.37                                   | 0.81                                        |
| 1993 | 14.0                         | 3.6                                    | 15.3                                        | 6.3                                     | 11.0                                         | 0.26                                  | 1.09                                       | 0.45                                   | 0.79                                        |
| 1994 | 13.1                         | 6.9                                    | 10.7                                        | 5.8                                     | 9.9                                          | 0.53                                  | 0.82                                       | 0.44                                   | 0.76                                        |
| 1995 | 10.9                         | 8.7                                    | 8.6                                         | 6.9                                     | 8.2                                          | 0.80                                  | 0.79                                       | 0.63                                   | 0.75                                        |
| 1996 | 10.0                         | 3.1                                    | 7.2                                         | 3.1                                     | 7.4                                          | 0.31                                  | 0.72                                       | 0.31                                   | 0.74                                        |
| 1997 | 9.3                          | 0.3                                    | 5.1                                         | 0.5                                     | 4.8                                          | 0.03                                  | 0.55                                       | 0.06                                   | 0.52                                        |
| 1998 | 7.8                          | -2.7                                   | 2.7                                         | 0.2                                     | 2.8                                          |                                       | 0.35                                       | 0.03                                   | 0.36                                        |
| 1999 | 7.6                          | 1.6                                    | 6.3                                         | 3.2                                     | 6.1                                          | 0.21                                  | 0.83                                       | 0.42                                   | 0.80                                        |
| 2000 | 8.4                          | 2.4                                    | 9.4                                         | 3.5                                     | 9.5                                          | 0.28                                  | 1.12                                       | 0.42                                   | 1.13                                        |
| 2001 | 8.3                          | 6.5                                    | 9.2                                         | 3.3                                     | 9.3                                          | 0.79                                  | 1.11                                       | 0.40                                   | 1.12                                        |
| 2002 | 9.1                          | 4.7                                    | 11.7                                        | 6.0                                     | 11.8                                         | 0.52                                  | 1.29                                       | 0.66                                   | 1.30                                        |
| 2003 | 10.0                         | 14.1                                   | 15.5                                        | 15.3                                    | 15.6                                         | 1.41                                  | 1.55                                       | 1.53                                   | 1.56                                        |
| 2004 | 10.1                         | 14.4                                   | 15.3                                        | 16.1                                    | 15.4                                         | 1.43                                  | 1.51                                       | 1.60                                   | 1.52                                        |
| 2005 | 11.3                         | 10.0                                   | 13.5                                        | 10.6                                    | 13.5                                         | 0.88                                  | 1.19                                       | 0.93                                   | 1.19                                        |
| 2006 | 12.7                         | 7.4                                    | 14.6                                        | 9.6                                     | 14.6                                         | 0.58                                  | 1.15                                       | 0.76                                   | 1.15                                        |
| 2007 | 14.2                         | 6.5                                    | 14.5                                        | 8.4                                     | 14.4                                         | 0.46                                  | 1.02                                       | 0.59                                   | 1.01                                        |
| 2008 | 9.6                          | 5.6                                    | 5.6                                         | 3.9                                     | 5.6                                          | 0.59                                  | 0.58                                       | 0.41                                   | 0.58                                        |

注:国内生产总值增长速度按可比价格计算.能源生产增长速度和能源消费增长速度采用等价值总量计算。

a) GDP growth rate is calculated at comparable prices.

## 1-2 国民经济和能源经济主要指标

| 指 标                   | Item                                                               | 单 位 unit                  | 2000   |
|-----------------------|--------------------------------------------------------------------|---------------------------|--------|
| 1.年底人口总数              | 1.Year-end Population                                              | 万人 10 <sup>4</sup> person | 126743 |
| 城镇                    | Urban                                                              | 万人 10 <sup>4</sup> person | 45906  |
| 乡村                    | Rural                                                              | 万人 10 <sup>4</sup> person | 80837  |
| 2.国内生产总值              | 2.Gross Domestic Products                                          | 亿元 10 <sup>8</sup> yuan   | 99215  |
| 第一产业                  | Primary Industry                                                   | 亿元 10 <sup>8</sup> yuan   | 14945  |
| 第二产业                  | Secondary Industry                                                 | 亿元 10 <sup>8</sup> yuan   | 45556  |
| 工业                    | Industry                                                           | 亿元 10 <sup>8</sup> yuan   | 40034  |
| 建筑业                   | Construction                                                       | 亿元 10 <sup>8</sup> yuan   | 5522   |
| 第三产业                  | Tertiary Industry                                                  | 亿元 10 <sup>8</sup> yuan   | 38714  |
| 3.全社会固定资产投资总额         | 3.Investment in Fixed Assets                                       | 亿元 10 <sup>8</sup> yuan   | 32918  |
| 能源工业(国有)              | Energy Industry (State-owned)                                      | 亿元 10 <sup>8</sup> yuan   | 2840   |
| 煤炭采选业                 | Coal Mining and Processing                                         | 亿元 10 <sup>8</sup> yuan   | 199    |
| 石油和天然气开采业             | Petroleum and Natural Gas Extraction                               | 亿元 10 <sup>8</sup> yuan   | 365    |
| 电力、蒸汽、热水生产和供应业        | Electricity, Steam Production and Supply                           | 亿元 10 <sup>8</sup> yuan   | 2130   |
| 石油加工及炼焦业              | Petroleum Processing and Coking                                    | 亿元 10 <sup>8</sup> yuan   | 95     |
| 煤气生产和供应业              | Gas Production and Supply                                          | 亿元 10 <sup>8</sup> yuan   | 60     |
| 4.进出口总额               | 4.Total Value of Exports and Imports                               | 亿元 10 <sup>8</sup> yuan   | 39273  |
| 出口总额                  | Exports                                                            | 亿元 10 <sup>8</sup> yuan   | 20634  |
| 进口总额                  | Imports                                                            | 亿元 10 <sup>8</sup> yuan   | 18639  |
| 5.煤炭保有储量              | 5. Coal Ensured Reserves                                           | 亿吨 10 <sup>8</sup> tn     | 10084  |
| 6.水利资源蕴藏量             | 6. Hydropower Resource                                             | 亿千瓦10 <sup>8</sup> kW     | 6.76   |
| 可开发量                  | Developable Resources                                              | 亿千瓦10 <sup>8</sup> kW     | 3.79   |
| 7.海洋能源理论蕴藏量           | 7. Theoretical Sea-energy Reserves                                 | 亿千瓦10 <sup>8</sup> kW     | 6.30   |
| 8.一次能源生产总量(发电煤耗算法)(*) | 8.Primary Energy Production<br>(coal equivalent calculation)(*)    | 万吨标准煤10 <sup>4</sup> tce  | 135048 |
| 一次能源生产总量(电热当量算法)(**)  | Primary Energy Production<br>(calorific value calculation)(**)     | 万吨标准煤10 <sup>4</sup> tce  | 122673 |
| 9.能源消费总量(发电煤耗算法)      | 9.Total Energy Consumption (*)<br>(coal equivalent calculation)(*) | 万吨标准煤10 <sup>4</sup> tce  | 145531 |
| 能源消费总量(电热当量算法)        | Total Energy Consumption (**)<br>(calorific value calculation)(**) | 万吨标准煤10 <sup>4</sup> tce  | 132469 |

注: (\*) 发电煤耗算法是指电力按当年平均火力发电煤耗换算成标准煤(下表同)。

(\*\*) 电热当量算法是指电力按自身的热功当量换算成标准煤。采用的折标系数为1万千瓦时=1.229吨标准煤(下表同)。

(\*) Electricity is converted to TCE by average quantity of fuel used for power generation. (the same as in the following tables)

(\*\*) Electricity is converted to TCE by 104kwh=1.229TCE. (The same as in the following tables)

# MAIN INDICATORS OF NATIONAL ECONOMY AND ENERGY ECONOMY

| 2001   | 2002   | 2003   | 2004   | 2005   | 2006   | 2007   | 2008   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 127627 | 128453 | 129227 | 129988 | 130756 | 131448 | 132129 | 132802 |
| 48064  | 50212  | 52376  | 54283  | 56212  | 57706  | 59379  | 60667  |
| 79563  | 78241  | 76851  | 75705  | 74544  | 73742  | 72750  | 72135  |
| 109655 | 120333 | 135823 | 159878 | 183217 | 211924 | 257306 | 300670 |
| 15781  | 16537  | 17382  | 21413  | 22420  | 24040  | 28627  | 34000  |
| 49512  | 53897  | 62436  | 73904  | 87365  | 103162 | 124799 | 146183 |
| 43581  | 47431  | 54946  | 65210  | 77231  | 91311  | 110535 | 129112 |
| 5932   | 6465   | 7491   | 8694   | 10134  | 11851  | 14264  | 17071  |
| 44362  | 49899  | 56005  | 64561  | 73433  | 84721  | 103880 | 120487 |
| 37214  | 43500  | 55567  | 70477  | 88774  | 109998 | 137324 | 172828 |
| 2622   | 2626   | 2876   | 3643   | 4766   | 5687   | 6715   | 7940   |
| 199    | 233    | 310    | 420    | 624    | 759    | 836    | 1014   |
| 375    | 158    | 236    | 301    | 279    | 387    | 586    | 740    |
| 1861   | 2082   | 2158   | 2640   | 3451   | 4042   | 4611   | 5336   |
| 127    | 93     | 90     | 188    | 299    | 369    | 549    | 698    |
| 58     | 60     | 82     | 95     | 113    | 129    | 133    | 153    |
| 42184  | 51378  | 70484  | 95539  | 116922 | 140971 | 166740 | 179921 |
| 22024  | 26948  | 36288  | 49103  | 62648  | 77595  | 93456  | 100395 |
| 20159  | 24430  | 34196  | 46436  | 54274  | 63377  | 73285  | 79527  |
| 10202  |        |        |        |        |        |        |        |
| 6.76   | 6.76   | 6.76   |        |        | 6.76   |        |        |
| 3.79   | 3.79   | 3.79   |        |        | 3.79   |        |        |
| 6.30   | 6.30   | 6.30   |        |        | 6.30   |        |        |
| 143875 | 150656 | 171906 | 196648 | 216219 | 232167 | 247279 | 261210 |
| 129794 | 135983 | 155947 | 177962 | 195518 | 220895 | 234856 | 247010 |
| 150406 | 159431 | 183792 | 213456 | 235997 | 258676 | 280508 | 291448 |
| 135765 | 144155 | 167273 | 193990 | 214466 | 247562 | 268413 | 277515 |