附件2

2016年度

中国区域电网二氧化碳基准线排放因子OM

编制说明

2012—2014年区域电网OM排放因子计算结果

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **区域电网** | **区域电网OM排放因子**/tCO2e/MWh | | | |
| **2012** | **2013** | **2014** | **三年平均值** |
| 华北电网 | 1.0583 | 0.9913 | 0.9551 | 1.0000 |
| 东北电网 | 1.1225 | 1.1102 | 1.1184 | 1.1171 |
| 华东电网 | 0.8107 | 0.8222 | 0.7932 | 0.8086 |
| 华中电网 | 0.9437 | 0.9291 | 0.8976 | 0.9229 |
| 西北电网 | 0.9546 | 0.9424 | 0.9041 | 0.9316 |
| 南方电网 | 0.9063 | 0.8664 | 0.8306 | 0.8676 |

2012—2014年电网间交换电量的计算

|  |  |  |
| --- | --- | --- |
|  | 区域电网净进口 | 电量（MWh） |
| 2012 | 华北从东北净进口电量 | 10,926,140 |
| 华北从西北净进口电量 | 27,079,710 |
| 华中从华北净进口电量 | 5,673,710 |
| 华东从华中净进口电量 | 52,287,240 |
| 阳城送江苏(华东从华北净进口) | 16,980,330 |
| 南方从华中净进口电量 | 16,752,770 |
| 华中从西北净进口电量 | 15,965,910 |
| 2013 | 华北从东北净进口电量 | 17,930,720 |
| 华北从西北净进口电量 | 25,344,730 |
| 华中从华北净进口电量 | 8,703,210 |
| 华东从华中净进口电量 | 83,817,940 |
| 华东从华北净进口电量 | 16,652,250 |
| 南方从华中净进口电量 | 12,007,880 |
| 华中从西北净进口电量 | 13,823,150 |
| 南方从华东净进口电量 | 22,000 |
| 2014 | 华北从东北净进口电量 | 21,459,020 |
| 华北从西北净进口电量 | 24,340,870 |
| 华中从华北净进口电量 | 7,534,900 |
| 华东从华中净进口电量 | 126,608,380 |
| 华东从华北净进口电量 | 16,203,450 |
| 南方从华中净进口电量 | 12,295,940 |
| 华中从西北净进口电量 | 22,136,630 |
|  | 南方从华东净进口电量 | 16,700 |

来源： 根据《2012年电力工业统计资料汇编》,《2013年电力工业统计资料汇编》,《2014年电力工业统计资料汇编》计算。

燃料参数的选取

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 燃料品种 | 含碳量 | 碳氧化率 | IPCC燃料CO2排放因子的 | 平均低位热值 |
|  | （tc/TJ） | （%） | 95%置信区间下限 |  |
|  | H | I | (kgCO2/TJ) | （MJ/t,km3） |
| 原煤 | 25.8 | 100 | 87,300 | 20908 |
| 洗精煤 | 25.8 | 100 | 87,300 | 26344 |
| 其它洗煤 | 25.8 | 100 | 87,300 | 8363 |
| 型煤 | 26.6 | 100 | 87,300 | 20908 |
| 焦炭 | 29.2 | 100 | 95,700 | 28435 |
| 焦炉煤气 | 12.1 | 100 | 37,300 | 16726 |
| 其它煤气 | 12.1 | 100 | 37,300 | 5227 |
| 原油 | 20 | 100 | 71,100 | 41816 |
| 汽油 | 18.9 | 100 | 67,500 | 43070 |
| 柴油 | 20.2 | 100 | 72,600 | 42652 |
| 燃料油 | 21.1 | 100 | 75,500 | 41816 |
| 液化石油气 | 17.2 | 100 | 61,600 | 50179 |
| 炼厂干气 | 15.7 | 100 | 48,200 | 45998 |
| 天然气 | 15.3 | 100 | 54,300 | 38931 |
| 其它石油制品 | 20 | 100 | 72,200 | 41816 |
| 其它焦化产品 | 25.8 | 100 | 95,700 | 28435 |
| 其它能源 | 0 | 0 | 0 | 0 |

数据来源：(1) 各燃料的热值来自于《中国能源统计年鉴2015》p361页。(2) 各燃料的潜在排放因子来源于“2006 IPCC Guidelines for National Greenhouse Gas Inventories” Volume 2 Energy，取各燃料排放因子的95%置信区间下限值。(3) 煤矸石、石油焦、液化天然气、高炉煤气、转炉煤气的低位发热量取自《公共机构能源消耗统计制度》，国务院机关事务管理局制定，国家统计局审批，2011年7月。2006 IPCC Guidelines for National Greenhouse Gas Inventories， Volume 2 Energy，第一章1.21-1.24页的表1.3和表1.4

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2012年华北电网电量边际排放因子 | | | | | | | | | | | | | |
| **燃料分类** | **单位** | **北京市** | **天津市** | **河北省** | **山西省** | **内蒙古** | **山东省** | **小计** | **含碳量** | **碳氧化率** | **燃料排放因子** | **平均低位发热量** | **CO2排放量（tCO2e）** |
|  |  |  |  |  |  |  |  |  | **（tc/TJ）** | **（%）** | **(kgCO2/TJ)** | **（MJ/t,km3）** | **L=G×J×K/100000（质量单位）** |
|  |  | **A** | **B** | **C** | **D** | **E** | **F** | **G=A+B+C+D+E+F** | **H** | **I** | **J** | **K** | **L=G×J×K/10000 (体积单位)** |
| 原煤 | 万吨 | 649.56 | 2746.38 | 9577.14 | 10836.33 | 20226.39 | 13276.35 | **57312** | 25.8 | 100 | 87,300 | 20,908 | 1,046,100,563 |
| 洗精煤 | 万吨 |  |  |  | 16.23 | 1.06 | 5.52 | **22.81** | 25.8 | 100 | 87,300 | 26,344 | 524,591 |
| 其他洗煤 | 万吨 |  |  | 89.04 | 694.67 | 34.2 | 2085.85 | **2903.8** | 25.8 | 100 | 87,300 | 8,363 | 21,200,058 |
| 型煤 | 万吨 | 1.48 |  |  |  |  | 31.03 | **32.51** | 26.6 | 100 | 87,300 | 20,908 | 593,395 |
| 煤矸石 | 万吨 |  |  | 170.44 | 2049.5 | 611.56 | 591.26 | **3422.8** | 25.8 | 100 | 87,300 | 8,363 | 24,989,225 |
| 焦炭 | 万吨 |  |  |  |  |  |  | **0** | 29.2 | 100 | 95,700 | 28,435 | 0 |
| 焦炉煤气 | 亿立方米 |  | 1.1 | 17.46 | 20.31 | 6.14 | 16.94 | **61.95** | 12.1 | 100 | 37,300 | 16,726 | 3,864,935 |
| 高炉煤气 | 亿立方米 |  | 11.69 | 322.33 | 44.8 | 50.72 | 231.53 | **661.07** | 70.8 | 100 | 219,000 | 3,763 | 54,478,580 |
| 转炉煤气 | 亿立方米 |  | 2.33 | 18.11 | 1.27 |  | 17.09 | **38.8** | 46.9 | 100 | 145,000 | 7,945 | 4,469,857 |
| 其他煤气 | 亿立方米 |  |  |  |  |  | 0.74 | **0.74** | 12.1 | 100 | 37,300 | 5,227 | 14,428 |
| 其他焦化产品 | 万吨 |  |  | 13.43 |  |  | 3.35 | **16.78** | 25.8 | 100 | 95,700 | 28,435 | 456,622 |
| 原油 | 万吨 |  | 8.12 |  |  | 0.05 |  | **8.17** | 20 | 100 | 71,100 | 41,816 | 242,904 |
| 汽油 | 万吨 |  |  |  |  |  | 0.01 | **0.01** | 18.9 | 100 | 67,500 | 43,070 | 291 |
| 煤油 | 万吨 |  |  |  |  |  |  | **0** | 19.6 | 100 | 71,900 | 43070 | 0 |
| 柴油 | 万吨 | 0.1 |  | 1.32 |  | 0.71 | 2.06 | **4.19** | 20.2 | 100 | 72,600 | 42,652 | 129,745 |
| 燃料油 | 万吨 | 0.13 |  | 0.03 |  | 0.01 | 0.5 | **0.67** | 21.1 | 100 | 75,500 | 41,816 | 21,153 |
| 石脑油 | 万吨 |  |  |  |  |  |  | **0** | 20.2 | 100 | 72,600 | 43,906 | 0 |
| 润滑油 | 万吨 |  |  |  |  |  |  | **0** | 20 | 100 | 71,900 | 41,398 | 0 |
| 石蜡 | 万吨 |  |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 39,934 | 0 |
| 溶剂油 | 万吨 |  |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 42,945 | 0 |
| 石油沥青 | 万吨 |  |  |  |  |  |  | **0** | 21 | 100 | 69,300 | 38,931 | 0 |
| 石油焦 | 万吨 | 5.69 | 17.43 |  |  |  | 15.57 | **38.69** | 26.6 | 100 | 82,900 | 31,947 | 1,024,668 |
| 液化石油气 | 万吨 |  |  |  |  |  |  | **0** | 17.2 | 100 | 61,600 | 50,179 | 0 |
| 炼厂干气 | 万吨 | 0.48 | 0.03 | 0.6 |  |  | 2.03 | **3.14** | 15.7 | 100 | 48,200 | 46,055 | 69,703 |
| 其他石油制品 | 万吨 | 0.6 |  | 2.26 |  |  | 0.1 | **2.96** | 20 | 100 | 72,200 | 41,816 | 89,366 |
| 天然气 | 亿立方米 | 21.22 | 0.61 | 0.27 | 5.21 | 0.13 | 0.13 | **27.57** | 15.3 | 100 | 54,300 | 38,931 | 5,828,169 |
| 液化天然气 | 万吨 |  |  |  |  |  |  | **0** | 15.3 | 100 | 54,300 | 51,434 | 0 |
| 其他能源 | 万吨标煤 | 19.67 | 12.65 | 121.97 | 85.54 | 45.49 | 60.96 | **346.28** | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  | 小计 | 1,164,098,254 |
| 来源：《中国能源统计年鉴2013》 | | | |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2012年华北电网火力发电量 | | | | |
| **省名称** | **发电量** | **发电量** | **厂用电率\*** | **供电量** |
|  | **（亿kWh)** | **（MWh)** | **（%）** | **（MWh)** |
| 北京市 | 283 | 28,300,000 | 5.4 | 26,771,800 |
| 天津市 | 582 | 58,200,000 | 6.3 | 54,533,400 |
| 河北省 | 2178 | 217,800,000 | 6.4 | 203,860,800 |
| 山西省 | 2454 | 245,400,000 | 7.6 | 226,749,600 |
| 内蒙 | 3029 | 302,900,000 | 7.4 | 280,485,400 |
| 山东省 | 3241 | 324,100,000 | 5.7 | 305,626,300 |
| **总计** |  | 1,176,700,000 |  | 1,098,027,300 |
| 来源：《中国电力年鉴2013》 | | |  |  |

2012年华北电网电量边际排放因子结果

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 华北电网 | 东北电网净调入 | 西北电网净调入 | 合计 | |
| 供电量/MWh | 1,098,027,300 | 10,926,140 | 27,079,710 | | 1,136,033,150 |
| 调入电网OM/tCO2e/MWh |  | 1.1225 | 0.9546 | |  |
| 排放量/tCO2e | 1,164,098,254 |  |  | | 1,202,212,118 |
| 电量边际排放因子/tCO2e/MWh |  |  |  | | 1.0583 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2013年华北电网电量边际排放因子计算表 | | | | | | | | | | | | | |
| **燃料分类** | **单位** | **北京市** | **天津市** | **河北省** | **山西省** | **内蒙古** | **山东省** | **小计** | **含碳量** | **碳氧化率** | **燃料排放因子** | **平均低位发热量** | **CO2排放量（tCO2e）** |
|  |  |  |  |  |  |  |  |  | **（tc/TJ）** | **（%）** | **(kgCO2/TJ)** | **（MJ/t,km3）** | **L=G×J×K/100000（质量单位）** |
|  |  | **A** | **B** | **C** | **D** | **E** | **F** | **G=A+B+C+D+E+F** | **H** | **I** | **J** | **K** | **L=G×J×K/10000 (体积单位)** |
| 原煤 | 万吨 | 631.97 | 2702.33 | 9515.31 | 11554.8 | 18419.87 | 13744.01 | **56568.3** | 25.8 | 100 | 87,300 | 20,908 | 1,032,523,122 |
| 洗精煤 | 万吨 |  |  |  | 13.96 | 1.24 | 0.66 | **15.86** | 25.8 | 100 | 87,300 | 26,344 | 364,753 |
| 其他洗煤 | 万吨 |  |  | 100.35 | 702.9 | 17.83 | 639.52 | **1460.6** | 25.8 | 100 | 87,300 | 8,363 | 10,663,693 |
| 型煤 | 万吨 | 0.93 |  |  |  | 0.65 | 33.09 | **34.67** | 26.6 | 100 | 87,300 | 20,908 | 632,821 |
| 煤矸石 | 万吨 |  |  | 168.19 | 1020.91 | 642.69 | 519.62 | **2351.41** | 25.8 | 100 | 87,300 | 8,363 | 17,167,407 |
| 焦炭 | 万吨 |  |  |  |  |  |  | **0** | 29.2 | 100 | 95,700 | 28,435 | 0 |
| 焦炉煤气 | 亿立方米 |  | 1.4 | 19.72 | 18.49 | 6.24 | 18 | **63.85** | 12.1 | 100 | 37,300 | 16,726 | 3,983,473 |
| 高炉煤气 | 亿立方米 |  | 14.89 | 500.17 | 48.2 | 49.85 | 242.78 | **855.89** | 70.8 | 100 | 219,000 | 3,763 | 70,533,638 |
| 转炉煤气 | 亿立方米 |  | 2.4 | 22.47 | 1.34 |  | 19.3 | **45.51** | 46.9 | 100 | 145,000 | 7,945 | 5,242,866 |
| 其他煤气 | 亿立方米 |  |  |  |  |  | 1.02 | **1.02** | 12.1 | 100 | 37,300 | 5,227 | 19,887 |
| 其他焦化产品 | 万吨 |  |  |  |  |  | 3.47 | **3.47** | 25.8 | 100 | 95,700 | 28,435 | 94,427 |
| 原油 | 万吨 |  | 7.9 |  |  | 0.01 |  | **7.91** | 20 | 100 | 71,100 | 41,816 | 235,174 |
| 汽油 | 万吨 |  |  |  |  |  | 0.01 | **0.01** | 18.9 | 100 | 67,500 | 43,070 | 291 |
| 煤油 | 万吨 |  |  |  |  |  |  | **0** | 19.6 | 100 | 71900 | 43070 | 0 |
| 柴油 | 万吨 | 0.2 |  | 1.49 |  | 0.73 | 1.84 | **4.26** | 20.2 | 100 | 72,600 | 42,652 | 131,912 |
| 燃料油 | 万吨 |  |  | 0.03 |  | 0.05 | 1.42 | **1.5** | 21.1 | 100 | 75,500 | 41,816 | 47,357 |
| 石脑油 | 万吨 |  |  |  |  |  |  | **0** | 20.2 | 100 | 72,600 | 43,906 | 0 |
| 润滑油 | 万吨 |  |  |  |  |  |  | **0** | 20 | 100 | 71,900 | 41,398 | 0 |
| 石蜡 | 万吨 |  |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 39,934 | 0 |
| 溶剂油 | 万吨 |  |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 42,945 | 0 |
| 石油沥青 | 万吨 |  |  |  |  |  |  | **0** | 21 | 100 | 69,300 | 38,931 | 0 |
| 石油焦 | 万吨 | 3.69 | 16.51 | 1.29 |  |  | 7.3 | **28.79** | 26.6 | 100 | 82,900 | 31,947 | 762,476 |
| 液化石油气 | 万吨 |  | 0.02 |  |  |  |  | **0.02** | 17.2 | 100 | 61,600 | 50,179 | 618 |
| 炼厂干气 | 万吨 | 0.19 |  | 0.84 |  |  | 1.95 | **2.98** | 15.7 | 100 | 48,200 | 46,055 | 66,152 |
| 其他石油制品 | 万吨 | 0.73 |  | 1.7 |  |  | 0.11 | **2.54** | 20 | 100 | 72,200 | 41,816 | 76,686 |
| 天然气 | 亿立方米 | 29.46 | 0.51 | 0.65 | 6.24 | 0.25 | 0.11 | **37.22** | 15.3 | 100 | 54,300 | 38,931 | 7,868,134 |
| 液化天然气 | 万吨 |  |  |  |  |  |  | **0** | 15.3 | 100 | 54,300 | 51,434 | 0 |
| 其他能源 | 万吨标煤 | 16.47 | 10.96 | 83.72 | 85.23 | 8.89 | 248.04 | **453.31** | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  | 小计 | 1,150,414,884 |
| 来源：《中国能源统计年鉴2014》 | | |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2013年华北电网火力发电量 | | | | |
| **省名称** | **发电量** | **发电量** | **厂用电率\*** | **供电量** |
|  | **（亿kWh)** | **（MWh)** | **（%）** | **（MWh)** |
| 北京市 | 329 | 32,900,000 | 5.57 | 31,067,470 |
| 天津市 | 591 | 59,100,000 | 6.14 | 55,471,260 |
| 河北省 | 2275 | 227,500,000 | 6.17 | 213,463,250 |
| 山西省 | 2527 | 252,700,000 | 7.44 | 233,899,120 |
| 内蒙 | 3213 | 321,300,000 | 7.36 | 297,652,320 |
| 山东省 | 3503 | 350,300,000 | 5.83 | 329,877,510 |
| **总计** |  | 1,243,800,000 |  | 1,161,430,930 |
| 来源：《中国电力年鉴2014》 | | |  |  |

2013年华北电网电量边际排放因子结果

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 华北电网 | 东北电网净调入 | 西北电网净调入 | 合计 | |
| 供电量/MWh | 1,161,430,930 | 17,930,720 | 25,344,730 | | 1,204,706,380 |
| 调入电网OM/tCO2e/MWh |  | 1.1102 | 0.9424 | |  |
| 排放量/tCO2e | 1,150,414,884 |  |  | | 1,194,206,002 |
| 电量边际排放因子/tCO2e/MWh |  |  |  | | 0.9913 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2014年华北电网电量边际排放因子计算表 | | | | | | | | | | | | | |
| **燃料分类** | **单位** | **北京市** | **天津市** | **河北省** | **山西省** | **内蒙古** | **山东省** | **小计** | **含碳量** | **碳氧化率** | **燃料排放因子** | **平均低位发热量** | **CO2排放量（tCO2e）** |
|  |  |  |  |  |  |  |  |  | **（tc/TJ）** | **（%）** | **(kgCO2/TJ)** | **（MJ/t,km3）** | **L=G×J×K/100000（质量单位）** |
|  |  | **A** | **B** | **C** | **D** | **E** | **F** | **G=A+B+C+D+E+F** | **H** | **I** | **J** | **K** | **L=G×J×K/10000 (体积单位)** |
| 原煤 | 万吨 | 503.15 | 2556.58 | 8988.72 | 10924.36 | 19344.71 | 13985.05 | **56302.6** | 25.8 | 100 | 87,300 | 20,908 | 1,027,673,019 |
| 洗精煤 | 万吨 |  |  |  | 11.09 |  | 10.41 | **21.5** | 25.8 | 100 | 87,300 | 26,344 | 494,464 |
| 其他洗煤 | 万吨 |  |  | 78.46 | 661.85 | 19.37 | 624 | **1383.68** | 25.8 | 100 | 87,300 | 8,363 | 10,102,108 |
| 型煤 | 万吨 | 0.59 |  |  |  | 2.42 | 37.98 | **40.99** | 26.6 | 100 | 87,300 | 20,908 | 748,178 |
| 煤矸石 | 万吨 |  |  | 137.45 | 1156.42 | 900.46 | 498 | **2692.33** | 25.8 | 100 | 87,300 | 8,363 | 19,656,429 |
| 焦炭 | 万吨 |  |  |  |  |  | 6.68 | **6.68** | 29.2 | 100 | 95,700 | 28,435 | 181,778 |
| 焦炉煤气 | 亿立方米 |  | 1.41 | 19.86 | 17.86 | 5.53 | 18.71 | **63.37** | 12.1 | 100 | 37,300 | 16,726 | 3,953,526 |
| 高炉煤气 | 亿立方米 |  | 14.88 | 339.39 | 45.09 | 47.85 | 220.24 | **667.45** | 70.8 | 100 | 219,000 | 3,763 | 55,004,354 |
| 转炉煤气 | 亿立方米 |  | 2.15 | 32.48 | 0.91 |  | 10.66 | **46.2** | 46.9 | 100 | 145,000 | 7,945 | 5,322,356 |
| 其他煤气 | 亿立方米 |  |  |  |  |  | 1.16 | **1.16** | 12.1 | 100 | 37,300 | 5,227 | 22,616 |
| 其他焦化产品 | 万吨 |  |  |  |  |  | 2.61 | **2.61** | 25.8 | 100 | 95,700 | 28,435 | 71,024 |
| 原油 | 万吨 |  | 7.41 |  |  | 0.01 |  | **7.42** | 20 | 100 | 71,100 | 41,816 | 220,605 |
| 汽油 | 万吨 |  |  |  |  |  | 0.01 | **0.01** | 18.9 | 100 | 67,500 | 43,070 | 291 |
| 煤油 | 万吨 |  |  |  |  |  |  | **0** | 19.6 | 100 | 71900 | 43070 | 0 |
| 柴油 | 万吨 | 0.18 | 0.36 | 1.09 |  | 0.64 | 1.44 | **3.71** | 20.2 | 100 | 72,600 | 42,652 | 114,881 |
| 燃料油 | 万吨 |  |  | 0.02 |  | 0.1 | 0.45 | **0.57** | 21.1 | 100 | 75,500 | 41,816 | 17,996 |
| 石脑油 | 万吨 |  |  |  |  |  |  | **0** | 20.2 | 100 | 72,600 | 43,906 | 0 |
| 润滑油 | 万吨 |  |  |  |  |  |  | **0** | 20 | 100 | 71,900 | 41,398 | 0 |
| 石蜡 | 万吨 |  |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 39,934 | 0 |
| 溶剂油 | 万吨 |  |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 42,945 | 0 |
| 石油沥青 | 万吨 |  |  |  |  |  |  | **0** | 21 | 100 | 69,300 | 38,931 | 0 |
| 石油焦 | 万吨 | 6.33 | 19.69 |  |  |  | 0.94 | **26.96** | 26.6 | 100 | 82,900 | 31,947 | 714,010 |
| 液化石油气 | 万吨 | 0.02 |  |  |  |  |  | **0.02** | 17.2 | 100 | 61,600 | 50,179 | 618 |
| 炼厂干气 | 万吨 | 0.09 |  | 0.64 |  |  | 3.23 | **3.96** | 15.7 | 100 | 48,200 | 45,998 | 87,797 |
| 其他石油制品 | 万吨 | 0.56 | 0.05 | 2.47 |  | 0.67 | 0.26 | **4.01** | 20 | 100 | 72,200 | 41,816 | 121,067 |
| 天然气 | 亿立方米 | 37.89 | 2.78 | 0.49 | 7.06 | 0.34 | 0.13 | **48.69** | 15.3 | 100 | 54,300 | 38,931 | 10,292,839 |
| 液化天然气 | 万吨 |  |  |  |  |  |  | **0** | 15.3 | 100 | 54,300 | 51,434 | 0 |
| 其他能源 | 万吨标煤 | 16.66 | 26.19 | 228.43 | 124.04 | 24.77 | 322.34 | **742.43** | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  | 小计 | 1,134,799,956 |
| 来源：《中国能源统计年鉴2015》 | | |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2014年华北电网火力发电量 | | | | |
| **省名称** | **发电量** | **发电量** | **厂用电率\*** | **供电量** |
|  | **（亿kWh)** | **（MWh)** | **（%）** | **（MWh)** |
| 北京市 | 359 | 35,900,000 | 4.43 | 34,309,630 |
| 天津市 | 605 | 60,500,000 | 6.56 | 56,531,200 |
| 河北省 | 2200 | 220,000,000 | 6.12 | 206,536,000 |
| 山西省 | 2530 | 253,000,000 | 7.46 | 234,126,200 |
| 内蒙古 | 3415 | 341,500,000 | 7.38 | 316,297,300 |
| 山东省 | 3627 | 362,700,000 | 5.51 | 342,715,230 |
| **总计** |  | 1,273,600,000 |  | 1,190,515,560 |
| 来源：《中国电力年鉴2015》 | | |  |  |

2014年华北电网电量边际排放因子结果

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 华北电网 | 东北电网净调入 | 西北电网净调入 | 合计 | |
| 供电量/MWh | 1,190,515,560 | 21,459,020 | 24,340,870 | | 1,236,315,450 |
| 调入电网OM/tCO2e/MWh |  | 1.1184 | 0.9041 | |  |
| 排放量/tCO2e | 1,134,799,956 |  |  | | 1,180,807,509 |
| 电量边际排放因子/tCO2e/MWh |  |  |  | | 0.9551 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2012年东北电网电量边际排放因子计算表 | | | | | | | | | | |
| **燃料分类** | **单位** | **辽宁省** | **吉林省** | **黑龙江省** | **小计** | **含碳量** | **碳氧化率** | **燃料排放因子** | **平均低位发热量** | **CO2排放量（tCO2e）** |
|  |  |  |  |  |  | **（tc/TJ）** | **（%）** | **(kgCO2/TJ)** | **（MJ/t,km3）** | **I=D×G×H/100000（质量单位）** |
|  |  | **A** | **B** | **C** | **D=A+B+C** | **E** | **F** | **G** | **H** | **I=D×G×H/10000 (体积单位)** |
| 原煤 | 万吨 | 6272.59 | 3680.49 | 4259.93 | **14213.01** | 25.8 | 100 | 87,300 | 20,908 | 259,425,580 |
| 洗精煤 | 万吨 |  | 12.83 |  | **12.83** | 25.8 | 100 | 87,300 | 26,344 | 295,068 |
| 其他洗煤 | 万吨 | 652.29 |  | 105.43 | **757.72** | 25.8 | 100 | 87,300 | 8,363 | 5,532,037 |
| 型煤 | 万吨 |  |  |  | **0** | 26.6 | 100 | 87,300 | 20,908 | 0 |
| 煤矸石 | 万吨 | 341.65 |  | 406.67 | **748.32** | 25.8 | 100 | 87,300 | 8,363 | 5,463,409 |
| 焦炭 | 万吨 | 3.91 |  |  | **3.91** | 29.2 | 100 | 95,700 | 28,435 | 106,400 |
| 焦炉煤气 | 亿立方米 | 9.69 | 0.51 | 2.64 | **12.84** | 12.1 | 100 | 37,300 | 16,726 | 801,062 |
| 高炉煤气 | 亿立方米 | 103.13 | 6.52 | 3.28 | **112.93** | 70.8 | 100 | 219,000 | 3,763 | 9,306,527 |
| 转炉煤气 | 亿立方米 | 5.17 | 0.45 | 0.15 | **5.77** | 46.9 | 100 | 145,000 | 7,945 | 664,718 |
| 其他煤气 | 亿立方米 |  |  |  | **0** | 12.1 | 100 | 37,300 | 5,227 | 0 |
| 其他焦化产品 | 万吨 |  |  |  | **0** | 25.8 | 100 | 95,700 | 28,435 | 0 |
| 原油 | 万吨 | 0.41 |  |  | **0.41** | 20 | 100 | 71,100 | 41,816 | 12,190 |
| 汽油 | 万吨 |  |  |  | **0** | 18.9 | 100 | 67,500 | 43,070 | 0 |
| 煤油 | 万吨 |  |  |  | **0** | 19.6 | 100 | 71,900 | 43070 | 0 |
| 柴油 | 万吨 | 0.43 | 0.53 | 0.34 | **1.3** | 20.2 | 100 | 72,600 | 42,652 | 40,255 |
| 燃料油 | 万吨 | 7.34 | 0.56 | 1.34 | **9.24** | 21.1 | 100 | 75,500 | 41,816 | 291,717 |
| 石脑油 | 万吨 |  |  |  | **0** | 20.2 | 100 | 72,600 | 43,906 | 0 |
| 润滑油 | 万吨 |  |  |  | **0** | 20 | 100 | 71,900 | 41,398 | 0 |
| 石蜡 | 万吨 |  |  |  | **0** | 20 | 100 | 72,200 | 39,934 | 0 |
| 溶剂油 | 万吨 |  |  |  | **0** | 20 | 100 | 72,200 | 42,945 | 0 |
| 石油沥青 | 万吨 |  |  |  | **0** | 21 | 100 | 69,300 | 38,931 | 0 |
| 石油焦 | 万吨 |  |  |  | **0** | 26.6 | 100 | 82,900 | 31,947 | 0 |
| 液化石油气 | 万吨 |  |  |  | **0** | 17.2 | 100 | 61,600 | 50,179 | 0 |
| 炼厂干气 | 万吨 | 1.41 |  | 8.96 | **10.37** | 15.7 | 100 | 48,200 | 46,055 | 230,199 |
| 其他石油制品 | 万吨 |  | 0.1 |  | **0.1** | 20 | 100 | 72,200 | 41,816 | 3,019 |
| 天然气 | 亿立方米 |  | 2.02 | 1.18 | **3.2** | 15.3 | 100 | 54,300 | 38,931 | 676,465 |
| 液化天然气 | 万吨 |  |  |  | **0** | 15.3 | 100 | 54,300 | 51,434 | 0 |
| 其他能源 | 万吨标煤 | 7.92 | 49.01 | 10.48 | **67.41** | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  | 小计 | 282,848,646 |
| 来源：《中国能源统计年鉴2013》 | | | |  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2012年东北电网火力发电量 | | | | |
| **省名称** | **发电量** | **发电量** | **厂用电率\*** | **供电量** |
|  | **（亿kWh)** | **（MWh)** | **（%）** | **（MWh)** |
| 辽宁省 | 1345 | 134,500,000 | 6.9 | 125,219,500 |
| 吉林省 | 591 | 59,100,000 | 7.5 | 54,667,500 |
| 黑龙江省 | 772 | 77,200,000 | 6.6 | 72,104,800 |
| **总计** |  | 270,800,000 |  | 251,991,800 |
| 来源：《中国电力年鉴2013》 | | |  |  |

2012年东北电网电量边际排放因子结果

|  |  |  |  |
| --- | --- | --- | --- |
|  | 东北电网 | 合计 | |
| 供电量/MWh | 251,991,800 | 251,991,800 |
| 排放量/tCO2e | 282,848,646 | 282,848,646 |
| 电量边际排放因子/tCO2e/MWh |  | 1.1225 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2013年东北电网电量边际排放因子计算表 | | | | | | | | | | |
| **燃料分类** | **单位** | **辽宁省** | **吉林省** | **黑龙江省** | **小计** | **含碳量** | **碳氧化率** | **燃料排放因子** | **平均低位发热量** | **CO2排放量（tCO2e）** |
|  |  |  |  |  |  | **（tc/TJ）** | **（%）** | **(kgCO2/TJ)** | **（MJ/t,km3）** | **I=D×G×H/100000（质量单位）** |
|  |  | **A** | **B** | **C** | **D=A+B+C** | **E** | **F** | **G** | **H** | **I=D×G×H/10000 (体积单位)** |
| 原煤 | 万吨 | 6942.74 | 3644.06 | 3324.52 | **13911.32** | 25.8 | 100 | 87,300 | 20,908 | 253,918,928 |
| 洗精煤 | 万吨 |  | 10.38 |  | **10.38** | 25.8 | 100 | 87,300 | 26,344 | 238,722 |
| 其他洗煤 | 万吨 | 59.64 |  | 113.34 | **172.98** | 25.8 | 100 | 87,300 | 8,363 | 1,262,910 |
| 型煤 | 万吨 |  |  |  | **0** | 26.6 | 100 | 87,300 | 20,908 | 0 |
| 煤矸石 | 万吨 | 354.38 | 32.18 | 459.23 | **845.79** | 25.8 | 100 | 87,300 | 8,363 | 6,175,027 |
| 焦炭 | 万吨 | 4.03 |  |  | **4.03** | 29.2 | 100 | 95,700 | 28,435 | 109,666 |
| 焦炉煤气 | 亿立方米 | 10.32 | 1 | 2.91 | **14.23** | 12.1 | 100 | 37,300 | 16,726 | 887,781 |
| 高炉煤气 | 亿立方米 | 113.47 | 10.87 | 4.74 | **129.08** | 70.8 | 100 | 219,000 | 3,763 | 10,637,444 |
| 转炉煤气 | 亿立方米 | 6.22 | 0.47 |  | **6.69** | 46.9 | 100 | 145,000 | 7,945 | 770,705 |
| 其他煤气 | 亿立方米 |  |  |  | **0** | 12.1 | 100 | 37,300 | 5,227 | 0 |
| 其他焦化产品 | 万吨 |  |  |  | **0** | 25.8 | 100 | 95,700 | 28,435 | 0 |
| 原油 | 万吨 | 0.4 |  |  | **0.4** | 20 | 100 | 71,100 | 41,816 | 11,892 |
| 汽油 | 万吨 |  | 0.01 |  | **0.01** | 18.9 | 100 | 67,500 | 43,070 | 291 |
| 煤油 | 万吨 |  |  |  | **0** | 19.6 | 100 | 71,900 | 43070 | 0 |
| 柴油 | 万吨 | 0.54 | 0.36 |  | **0.9** | 20.2 | 100 | 72,600 | 42,652 | 27,869 |
| 燃料油 | 万吨 | 7.3 | 0.39 | 1.04 | **8.73** | 21.1 | 100 | 75,500 | 41,816 | 275,616 |
| 石脑油 | 万吨 |  |  |  | **0** | 20.2 | 100 | 72,600 | 43,906 | 0 |
| 润滑油 | 万吨 |  |  |  | **0** | 20 | 100 | 71,900 | 41,398 | 0 |
| 石蜡 | 万吨 |  |  |  | **0** | 20 | 100 | 72,200 | 39,934 | 0 |
| 溶剂油 | 万吨 |  |  |  | **0** | 20 | 100 | 72,200 | 42,945 | 0 |
| 石油沥青 | 万吨 |  |  |  | **0** | 21 | 100 | 69,300 | 38,931 | 0 |
| 石油焦 | 万吨 |  |  |  | **0** | 26.6 | 100 | 82,900 | 31,947 | 0 |
| 液化石油气 | 万吨 |  |  |  | **0** | 17.2 | 100 | 61,600 | 50,179 | 0 |
| 炼厂干气 | 万吨 | 1.91 |  | 10.17 | **12.08** | 15.7 | 100 | 48,200 | 46,055 | 268,158 |
| 其他石油制品 | 万吨 |  | 0.05 |  | **0.05** | 20 | 100 | 72,200 | 41,816 | 1,510 |
| 天然气 | 亿立方米 |  | 1.79 | 1.65 | **3.44** | 15.3 | 100 | 54,300 | 38,931 | 727,200 |
| 液化天然气 | 万吨 |  |  |  | **0** | 15.3 | 100 | 54,300 | 51,434 | 0 |
| 其他能源 | 万吨标煤 | 7.71 | 64.17 | 10.07 | **81.95** | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  | 小计 | 275,313,718 |
| 来源：《中国能源统计年鉴2014》 | | |  |  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2013年东北电网火力发电量 | | | | |
| **省名称** | **发电量** | **发电量** | **厂用电率\*** | **供电量** |
|  | **（亿kWh)** | **（MWh)** | **（%）** | **（MWh)** |
| 辽宁省 | 1329 | 132,900,000 | 6.84 | 123,809,640 |
| 吉林省 | 590 | 59,000,000 | 7.29 | 54,698,900 |
| 黑龙江省 | 746 | 74,600,000 | 6.87 | 69,474,980 |
| **总计** |  | 266,500,000 |  | 247,983,520 |
| 来源：《中国电力年鉴2014》 | | |  |  |

2013年东北电网电量边际排放因子结果

|  |  |  |  |
| --- | --- | --- | --- |
|  | 东北电网 | 合计 | |
| 供电量/MWh | 247,983,520 | 247,983,520 |
| 排放量/tCO2e | 275,313,718 | 275,313,718 |
| 电量边际排放因子/tCO2e/MWh |  | 1.1102 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2014年东北电网电量边际排放因子计算表 | | | | | | | | | | |
| **燃料分类** | **单位** | **辽宁省** | **吉林省** | **黑龙江省** | **小计** | **含碳量** | **碳氧化率** | **燃料排放因子** | **平均低位发热量** | **CO2排放量（tCO2e）** |
|  |  |  |  |  |  | **（tc/TJ）** | **（%）** | **(kgCO2/TJ)** | **（MJ/t,km3）** | **I=D×G×H/100000（质量单位）** |
|  |  | **A** | **B** | **C** | **D=A+B+C** | **E** | **F** | **G** | **H** | **I=D×G×H/10000 (体积单位)** |
| 原煤 | 万吨 | 6855.54 | 3824.97 | 3941.98 | **14622.49** | 25.8 | 100 | 87,300 | 20,908 | 266,899,689 |
| 洗精煤 | 万吨 |  | 6.41 |  | **6.41** | 25.8 | 100 | 87,300 | 26,344 | 147,419 |
| 其他洗煤 | 万吨 | 48.81 |  | 119.06 | **167.87** | 25.8 | 100 | 87,300 | 8,363 | 1,225,602 |
| 型煤 | 万吨 |  |  | 1.19 | **1.19** | 26.6 | 100 | 87,300 | 20,908 | 21,721 |
| 煤矸石 | 万吨 | 288.92 |  | 436.97 | **725.89** | 25.8 | 100 | 87,300 | 8,363 | 5,299,650 |
| 焦炭 | 万吨 | 5.03 |  |  | **5.03** | 29.2 | 100 | 95,700 | 28,435 | 136,878 |
| 焦炉煤气 | 亿立方米 | 11.03 | 0.69 | 1.39 | **13.11** | 12.1 | 100 | 37,300 | 16,726 | 817,906 |
| 高炉煤气 | 亿立方米 | 149.04 | 10.87 | 0.12 | **160.03** | 70.8 | 100 | 219,000 | 3,763 | 13,188,024 |
| 转炉煤气 | 亿立方米 | 10.25 | 0.25 |  | **10.5** | 46.9 | 100 | 145,000 | 7,945 | 1,209,626 |
| 其他煤气 | 亿立方米 |  |  |  | **0** | 12.1 | 100 | 37,300 | 5,227 | 0 |
| 其他焦化产品 | 万吨 |  |  |  | **0** | 25.8 | 100 | 95,700 | 28,435 | 0 |
| 原油 | 万吨 | 1.2 |  |  | **1.2** | 20 | 100 | 71,100 | 41,816 | 35,677 |
| 汽油 | 万吨 |  |  |  | **0** | 18.9 | 100 | 67,500 | 43,070 | 0 |
| 煤油 | 万吨 |  |  |  | **0** | 19.6 | 100 | 71,900 | 43070 | 0 |
| 柴油 | 万吨 | 0.44 | 0.21 | 0.3 | **0.95** | 20.2 | 100 | 72,600 | 42,652 | 29,417 |
| 燃料油 | 万吨 | 5.09 | 0.25 | 3.82 | **9.16** | 21.1 | 100 | 75,500 | 41,816 | 289,191 |
| 石脑油 | 万吨 |  |  |  | **0** | 20.2 | 100 | 72,600 | 43,906 | 0 |
| 润滑油 | 万吨 |  |  |  | **0** | 20 | 100 | 71,900 | 41,398 | 0 |
| 石蜡 | 万吨 |  |  |  | **0** | 20 | 100 | 72,200 | 39,934 | 0 |
| 溶剂油 | 万吨 |  |  |  | **0** | 20 | 100 | 72,200 | 42,945 | 0 |
| 石油沥青 | 万吨 |  |  |  | **0** | 21 | 100 | 69,300 | 38,931 | 0 |
| 石油焦 | 万吨 |  |  |  | **0** | 26.6 | 100 | 82,900 | 31,947 | 0 |
| 液化石油气 | 万吨 |  |  |  | **0** | 17.2 | 100 | 61,600 | 50,179 | 0 |
| 炼厂干气 | 万吨 | 0.66 |  | 13.29 | **13.95** | 15.7 | 100 | 48,200 | 45,998 | 309,286 |
| 其他石油制品 | 万吨 |  |  |  | **0** | 20 | 100 | 72,200 | 41,816 | 0 |
| 天然气 | 亿立方米 |  | 1.31 | 1.66 | **2.97** | 15.3 | 100 | 54,300 | 38,931 | 627,844 |
| 液化天然气 | 万吨 |  |  |  | **0** | 15.3 | 100 | 54,300 | 51,434 | 0 |
| 其他能源 | 万吨标煤 | 8.6 | 82.62 | 14.07 | **105.29** | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  | 小计 | 290,237,931 |
| 来源：《中国能源统计年鉴2015》 | | |  |  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2014年东北电网火力发电量 | | | | |
| **省名称** | **发电量** | **发电量** | **厂用电率\*** | **供电量** |
|  | **（亿kWh)** | **（MWh)** | **（%）** | **（MWh)** |
| 辽宁省 | 1351 | 135,100,000 | 6.56 | 126,237,440 |
| 吉林省 | 630 | 63,000,000 | 7.08 | 58,539,600 |
| 黑龙江省 | 801 | 80,100,000 | 6.71 | 74,725,290 |
| **总计** |  | 278,200,000 |  | 259,502,330 |
| 来源：《中国电力年鉴2015》 | | |  |  |

2014年东北电网电量边际排放因子结果

|  |  |  |  |
| --- | --- | --- | --- |
|  | 东北电网 | 合计 | |
| 供电量/MWh | 259,502,330 | 259,502,330 |
| 排放量/tCO2e | 290,237,931 | 290,237,931 |
| 电量边际排放因子/tCO2e/MWh |  | 1.1184 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2012年华东电网电量边际排放因子计算表 | | | | | | | | | | | | |
| **燃料分类** | **单位** | **上海市** | **江苏省** | **浙江省** | **安徽省** | **福建省** | **小计** | **含碳量** | **碳氧化率** | **燃料排放因子** | **平均低位发热量** | **CO2排放量（tCO2e）** |
|  |  |  |  |  |  |  |  | **（tc/TJ）** | **（%）** | **(kgCO2/TJ)** | **（MJ/t,km3）** | **K=F×I×J/100000（质量单位）** |
|  |  | **A** | **B** | **C** | **D** | **E** | **F=A+B+C+D+E** | **G** | **H** | **I** | **J** | **K=F×I×J/10000 (体积单位)** |
| 原煤 | 万吨 | 3397.31 | 15723.65 | 8633.73 | 7539.89 | 4501.98 | **39796.56** | 25.8 | 100 | 87,300 | 20,908 | 726,394,034 |
| 洗精煤 | 万吨 |  |  |  |  |  | **0** | 25.8 | 100 | 87,300 | 26,344 | 0 |
| 其他洗煤 | 万吨 |  | 242.09 |  | 298.74 |  | **540.83** | 25.8 | 100 | 87,300 | 8,363 | 3,948,545 |
| 型煤 | 万吨 |  |  |  |  |  | **0** | 26.6 | 100 | 87,300 | 20,908 | 0 |
| 煤矸石 | 万吨 |  | 22.08 | 0.8 | 297.08 |  | **319.96** | 25.8 | 100 | 87,300 | 8,363 | 2,335,996 |
| 焦炭 | 亿立方米 |  |  |  |  |  | **0** | 29.2 | 100 | 95,700 | 28,435 | 0 |
| 焦炉煤气 | 亿立方米 | 1.18 | 10.38 | 0.69 | 5.56 | 0.28 | **18.09** | 12.1 | 100 | 37,300 | 16,726 | 1,128,599 |
| 高炉煤气 | 亿立方米 |  |  | 33.19 | 18.24 | 9.67 | **61.1** | 70.8 | 100 | 219,000 | 3,763 | 5,035,233 |
| 转炉煤气 | 亿立方米 |  |  | 1.52 | 3.47 | 1.11 | **6.1** | 46.9 | 100 | 145,000 | 7,945 | 702,735 |
| 其他煤气 | 亿立方米 | 25.7 |  |  |  |  | **25.7** | 12.1 | 100 | 37,300 | 5,227 | 501,065 |
| 其他焦化产品 | 万吨 |  |  |  |  |  | **0** | 25.8 | 100 | 95,700 | 28,435 | 0 |
| 原油 | 万吨 |  |  | 2.25 |  |  | **2.25** | 20 | 100 | 71,100 | 41,816 | 66,895 |
| 汽油 | 万吨 |  |  |  |  |  | **0** | 18.9 | 100 | 67,500 | 43,070 | 0 |
| 煤油 | 万吨 |  |  |  |  |  | **0** | 19.6 | 100 | 71,900 | 43070 | 0 |
| 柴油 | 万吨 | 0.75 | 1.7 | 0.86 | 0.41 | 1.02 | **4.74** | 20.2 | 100 | 72,600 | 42,652 | 146,776 |
| 燃料油 | 万吨 | 7.58 | 0.19 | 1.29 |  | 0.62 | **9.68** | 21.1 | 100 | 75,500 | 41,816 | 305,608 |
| 石脑油 | 万吨 |  |  |  |  |  | **0** | 20.2 | 100 | 72,600 | 43,906 | 0 |
| 润滑油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 71,900 | 41,398 | 0 |
| 石蜡 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 39,934 | 0 |
| 溶剂油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 42,945 | 0 |
| 石油沥青 | 万吨 |  |  |  |  |  | **0** | 21 | 100 | 69,300 | 38,931 | 0 |
| 石油焦 | 万吨 | 17.84 | 0.27 | 36.15 |  |  | **54.26** | 26.6 | 100 | 82,900 | 31,947 | 1,437,025 |
| 液化石油气 | 万吨 |  |  |  |  |  | **0** | 17.2 | 100 | 61,600 | 50,179 | 0 |
| 炼厂干气 | 万吨 | 0.44 | 0.44 |  | 0.99 | 42.02 | **43.89** | 15.7 | 100 | 48,200 | 46,055 | 974,293 |
| 其他石油制品 | 万吨 | 0.02 | 1.11 |  |  |  | **1.13** | 20 | 100 | 72,200 | 41,816 | 34,116 |
| 天然气 | 亿立方米 | 14.54 | 43.95 | 25.31 |  | 21.41 | **105.21** | 15.3 | 100 | 54,300 | 38,931 | 22,240,903 |
| 液化天然气 | 万吨 |  |  | 0.03 |  |  | **0.03** | 15.3 | 100 | 54,300 | 51,434 | 838 |
| 其他能源 | 万吨标煤 | 18.97 | 185.57 | 60.95 | 210.58 | 0.67 | **476.74** | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  | 小计 | 765,252,660 |
| 来源：《中国能源统计年鉴2013》 | | | |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2012年华东电网火力发电量 | | | | |
| **省名称** | **发电量** | **发电量** | **厂用电率\*** | **供电量** |
|  | **（亿kWh)** | **（MWh)** | **（%）** | **（MWh)** |
| 上海市 | 967 | 96,700,000 | 4.5 | 92,348,500 |
| 江苏省 | 3943 | 394,300,000 | 5 | 374,585,000 |
| 浙江省 | 2273 | 227,300,000 | 4.9 | 216,162,300 |
| 安徽省 | 1767 | 176,700,000 | 4.9 | 168,041,700 |
| 福建省 | 1118 | 111,800,000 | 4.7 | 106,545,400 |
| **总计** |  | 1,006,800,000 |  | 957,682,900 |
| 来源：《中国电力年鉴2013》 | | |  |  |

2012年华东电网电量边际排放因子结果

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 华东电网 | 华北电网净调入 | 华中电网净调入 | 合计 | |
| 供电量/MWh | 957,682,900 | 16,980,330 | 52,287,240 | | 1,026,950,470 |
| 调入电网OM/tCO2e/MWh |  | 1.0583 | 0.9437 | |  |
| 排放量/tCO2e | 765,252,660 |  |  | | 832,563,265 |
| 电量边际排放因子/tCO2e/MWh |  |  |  | | 0.8107 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2013年华东电网电量边际排放因子计算表 | | | | | | | | | | | | |
| **燃料分类** | **单位** | **上海市** | **江苏省** | **浙江省** | **安徽省** | **福建省** | **小计** | **含碳量** | **碳氧化率** | **燃料排放因子** | **平均低位发热量** | **CO2排放量（tCO2e）** |
|  |  |  |  |  |  |  |  | **（tc/TJ）** | **（%）** | **(kgCO2/TJ)** | **（MJ/t,km3）** | **K=F×I×J/100000（质量单位）** |
|  |  | **A** | **B** | **C** | **D** | **E** | **F=A+B+C+D+E** | **G** | **H** | **I** | **J** | **K=F×I×J/10000 (体积单位)** |
| 原煤 | 万吨 | 3558.94 | 16120.99 | 8642.2 | 8099.62 | 4836.56 | **41258.31** | 25.8 | 100 | 87,300 | 20,908 | 753,074,895 |
| 洗精煤 | 万吨 |  |  |  |  |  | **0** | 25.8 | 100 | 87,300 | 26,344 | 0 |
| 其他洗煤 | 万吨 |  | 219.91 |  | 268.86 |  | **488.77** | 25.8 | 100 | 87,300 | 8,363 | 3,568,460 |
| 型煤 | 万吨 |  |  |  |  |  | **0** | 26.6 | 100 | 87,300 | 20,908 | 0 |
| 煤矸石 | 万吨 |  | 7.72 | 0.83 | 322.9 |  | **331.45** | 25.8 | 100 | 87,300 | 8,363 | 2,419,883 |
| 焦炭 | 亿立方米 |  |  |  |  |  | **0** | 29.2 | 100 | 95,700 | 28,435 | 0 |
| 焦炉煤气 | 亿立方米 | 0.72 | 10.13 | 0.7 | 4.04 | 0.38 | **15.97** | 12.1 | 100 | 37,300 | 16,726 | 996,336 |
| 高炉煤气 | 亿立方米 | 90.09 | 188.66 | 32.97 | 80.99 | 98.63 | **491.34** | 70.8 | 100 | 219,000 | 3,763 | 40,491,182 |
| 转炉煤气 | 亿立方米 | 0.98 | 6.31 | 1.22 | 8.55 | 1.16 | **18.22** | 46.9 | 100 | 145,000 | 7,945 | 2,098,990 |
| 其他煤气 | 亿立方米 |  |  |  |  |  | **0** | 12.1 | 100 | 37,300 | 5,227 | 0 |
| 其他焦化产品 | 万吨 |  |  |  |  |  | **0** | 25.8 | 100 | 95,700 | 28,435 | 0 |
| 原油 | 万吨 |  |  | 2.04 |  |  | **2.04** | 20 | 100 | 71,100 | 41,816 | 60,652 |
| 汽油 | 万吨 |  |  |  |  |  | **0** | 18.9 | 100 | 67,500 | 43,070 | 0 |
| 煤油 | 万吨 |  |  |  |  |  | **0** | 19.6 | 100 | 71,900 | 43070 | 0 |
| 柴油 | 万吨 | 1.08 | 1.23 | 0.75 | 0.4 | 0.72 | **4.18** | 20.2 | 100 | 72,600 | 42,652 | 129,435 |
| 燃料油 | 万吨 | 13.45 | 0.14 | 1.29 |  | 0.35 | **15.23** | 21.1 | 100 | 75,500 | 41,816 | 480,828 |
| 石脑油 | 万吨 |  |  |  |  |  | **0** | 20.2 | 100 | 72,600 | 43,906 | 0 |
| 润滑油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 71,900 | 41,398 | 0 |
| 石蜡 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 39,934 | 0 |
| 溶剂油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 42,945 | 0 |
| 石油沥青 | 万吨 |  |  |  |  |  | **0** | 21 | 100 | 69,300 | 38,931 | 0 |
| 石油焦 | 万吨 | 17.61 | 0.04 | 33.04 |  |  | **50.69** | 26.6 | 100 | 82,900 | 31,947 | 1,342,477 |
| 液化石油气 | 万吨 |  |  |  |  |  | **0** | 17.2 | 100 | 61,600 | 50,179 | 0 |
| 炼厂干气 | 万吨 | 0.86 | 0.44 |  | 1.21 | 35.79 | **38.3** | 15.7 | 100 | 48,200 | 46,055 | 850,203 |
| 其他石油制品 | 万吨 | 0.04 | 0.97 |  |  |  | **1.01** | 20 | 100 | 72,200 | 41,816 | 30,493 |
| 天然气 | 亿立方米 | 15.94 | 42.24 | 29.18 | 0.1 | 25.02 | **112.48** | 15.3 | 100 | 54,300 | 38,931 | 23,777,747 |
| 液化天然气 | 万吨 |  |  | 0.01 |  |  | **0.01** | 15.3 | 100 | 54,300 | 51,434 | 279 |
| 其他能源 | 万吨标煤 | 21.3 | 235.9 | 93.58 | 78.04 | 85 | **513.82** | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  | 小计 | 829,321,859 |
| 来源：《中国能源统计年鉴2014》 | | | |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2013年华东电网火力发电量 | | | | |
| **省名称** | **发电量** | **发电量** | **厂用电率\*** | **供电量** |
|  | **（亿kWh)** | **（MWh)** | **（%）** | **（MWh)** |
| 上海市 | 963 | 96,300,000 | 4.6 | 91,870,200 |
| 江苏省 | 4174 | 417,400,000 | 4.78 | 397,448,280 |
| 浙江省 | 2393 | 239,300,000 | 4.89 | 227,598,230 |
| 安徽省 | 1933 | 193,300,000 | 4.69 | 184,234,230 |
| 福建省 | 1280 | 128,000,000 | 4.82 | 121,830,400 |
| **总计** |  | 1,074,300,000 |  | 1,022,981,340 |
| 来源：《中国电力年鉴2014》 | | |  |  |

2013年华东电网电量边际排放因子结果

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 华东电网 | 华北电网净调入 | 华中电网净调入 | 合计 | |
| 供电量/MWh | 1,022,981,340 | 16,652,250 | 83,817,940 | | 1,123,451,530 |
| 调入电网OM/tCO2e/MWh |  | 0.9913 | 0.9291 | |  |
| 排放量/tCO2e | 829,321,859 |  |  | | 923,702,588 |
| 电量边际排放因子/tCO2e/MWh |  |  |  | | 0.8222 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2014年华东电网电量边际排放因子计算表 | | | | | | | | | | | | |
| **燃料分类** | **单位** | **上海市** | **江苏省** | **浙江省** | **安徽省** | **福建省** | **小计** | **含碳量** | **碳氧化率** | **燃料排放因子** | **平均低位发热量** | **CO2排放量（tCO2e）** |
|  |  |  |  |  |  |  |  | **（tc/TJ）** | **（%）** | **(kgCO2/TJ)** | **（MJ/t,km3）** | **K=F×I×J/100000（质量单位）** |
|  |  | **A** | **B** | **C** | **D** | **E** | **F=A+B+C+D+E** | **G** | **H** | **I** | **J** | **K=F×I×J/10000 (体积单位)** |
| 原煤 | 万吨 | 2814.23 | 15270.36 | 8160.54 | 7953.91 | 5013.09 | **39212.13** | 25.8 | 100 | 87,300 | 20,908 | 715,726,618 |
| 洗精煤 | 万吨 |  |  | 1.57 |  |  | **1.57** | 25.8 | 100 | 87,300 | 26,344 | 36,107 |
| 其他洗煤 | 万吨 |  | 254.59 |  | 377.23 |  | **631.82** | 25.8 | 100 | 87,300 | 8,363 | 4,612,854 |
| 型煤 | 万吨 |  |  |  |  |  | **0** | 26.6 | 100 | 87,300 | 20,908 | 0 |
| 煤矸石 | 万吨 |  |  | 0.77 | 388.17 |  | **388.94** | 25.8 | 100 | 87,300 | 8,363 | 2,839,612 |
| 焦炭 | 亿立方米 |  |  |  |  |  | **0** | 29.2 | 100 | 95,700 | 28,435 | 0 |
| 焦炉煤气 | 亿立方米 | 0.37 | 9.88 | 0.82 | 3.84 |  | **14.91** | 12.1 | 100 | 37,300 | 16,726 | 930,205 |
| 高炉煤气 | 亿立方米 | 94.3 |  | 32.89 | 103.21 | 79 | **309.4** | 70.8 | 100 | 219,000 | 3,763 | 25,497,561 |
| 转炉煤气 | 亿立方米 | 1.25 |  | 1.84 | 7.41 | 0.91 | **11.41** | 46.9 | 100 | 145,000 | 7,945 | 1,314,461 |
| 其他煤气 | 亿立方米 |  |  |  |  |  | **0** | 12.1 | 100 | 37,300 | 5,227 | 0 |
| 其他焦化产品 | 万吨 |  |  |  |  |  | **0** | 25.8 | 100 | 95,700 | 28,435 | 0 |
| 原油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 71,100 | 41,816 | 0 |
| 汽油 | 万吨 |  |  |  |  |  | **0** | 18.9 | 100 | 67,500 | 43,070 | 0 |
| 煤油 | 万吨 |  |  |  |  |  | **0** | 19.6 | 100 | 71,900 | 43070 | 0 |
| 柴油 | 万吨 | 0.38 | 1.25 | 0.71 | 0.25 | 0.72 | **3.31** | 20.2 | 100 | 72,600 | 42,652 | 102,495 |
| 燃料油 | 万吨 | 5.1 | 0.19 | 0.02 |  | 0.44 | **5.75** | 21.1 | 100 | 75,500 | 41,816 | 181,534 |
| 石脑油 | 万吨 |  |  |  |  |  | **0** | 20.2 | 100 | 72,600 | 43,906 | 0 |
| 润滑油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 71,900 | 41,398 | 0 |
| 石蜡 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 39,934 | 0 |
| 溶剂油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 42,945 | 0 |
| 石油沥青 | 万吨 |  |  |  |  |  | **0** | 21 | 100 | 69,300 | 38,931 | 0 |
| 石油焦 | 万吨 | 15.2 |  | 31.74 |  | 5.73 | **52.67** | 26.6 | 100 | 82,900 | 31,947 | 1,394,916 |
| 液化石油气 | 万吨 |  |  |  |  |  | **0** | 17.2 | 100 | 61,600 | 50,179 | 0 |
| 炼厂干气 | 万吨 | 0.26 | 0.16 |  | 0.51 | 38.43 | **39.36** | 15.7 | 100 | 48,200 | 45,998 | 872,652 |
| 其他石油制品 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 41,816 | 0 |
| 天然气 | 亿立方米 | 15.75 | 36.5 | 35.74 | 0.19 | 19.99 | **108.17** | 15.3 | 100 | 54,300 | 38,931 | 22,866,633 |
| 液化天然气 | 万吨 |  |  | 0.01 |  |  | **0.01** | 15.3 | 100 | 54,300 | 51,434 | 279 |
| 其他能源 | 万吨标煤 | 43.09 | 244.39 | 124.83 | 103.43 | 7.58 | **523.32** | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  | 小计 | 776,375,926 |
| 来源：《中国能源统计年鉴2015》 | | | |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2014年华东电网火力发电量 | | | | |
| **省名称** | **发电量** | **发电量** | **厂用电率\*** | **供电量** |
|  | **（亿kWh)** | **（MWh)** | **（%）** | **（MWh)** |
| 上海市 | 800 | 80,000,000 | 4.58 | 76,336,000 |
| 江苏省 | 4098 | 409,800,000 | 4.73 | 390,416,460 |
| 浙江省 | 2340 | 234,000,000 | 5.03 | 222,229,800 |
| 安徽省 | 1972 | 197,200,000 | 4.55 | 188,227,400 |
| 福建省 | 1277 | 127,700,000 | 4.79 | 121,583,170 |
| **总计** |  | 1,048,700,000 |  | 998,792,830 |
| 来源：《中国电力年鉴2015》 | | |  |  |

2014年华东电网电量边际排放因子结果

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 华东电网 | 华北电网净调入 | 华中电网净调入 | 合计 | |
| 供电量/MWh | 998,792,830 | 16,203,450 | 126,608,380 | | 1,141,604,660 |
| 调入电网OM/tCO2e/MWh |  | 0.9551 | 0.8976 | |  |
| 排放量/tCO2e | 776,375,926 |  |  | | 905,499,430 |
| 电量边际排放因子/tCO2e/MWh |  |  |  | | 0.7932 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2012年华中电网电量边际排放因子计算表 | | | | | | | | | | | | | |
| **燃料分类** | **单位** | **江西省** | **河南省** | **湖北省** | **湖南省** | **重庆市** | **四川省** | **小计** | **含碳量** | **碳氧化率** | **燃料排放因子** | **平均低位发热量** | **CO2排放量（tCO2e）** |
|  |  |  |  |  |  |  |  |  | **（tc/TJ）** | **（%）** | **(kgCO2/TJ)** | **（MJ/t,m3）** | **L=G×J×K/100000（质量单位）** |
|  |  | **A** | **B** | **C** | **D** | **E** | **F** | **G=A+B+C+D+E+F** | **H** | **I** | **J** | **K** | **L=G×J×K/10000 (体积单位)** |
| 原煤 | 万吨 | 2649.47 | 11393.35 | 3454.97 | 3233.93 | 1408.27 | 2549.04 | **24689.03** | 25.8 | 100 | 87,300 | 20,908 | 450,641,063 |
| 洗精煤 | 万吨 |  | 22.71 |  |  |  |  | **22.71** | 25.8 | 100 | 87,300 | 26,344 | 522,292 |
| 其他洗煤 | 万吨 |  | 126.8 |  |  | 138.05 | 93.58 | **358.43** | 25.8 | 100 | 87,300 | 8,363 | 2,616,861 |
| 型煤 | 万吨 |  |  |  |  |  |  | **0** | 26.6 | 100 | 87,300 | 20,908 | 0 |
| 煤矸石 | 万吨 | 66.29 | 234.49 | 60.51 | 85.62 | 215.65 | 207.23 | **869.79** | 25.8 | 100 | 87,300 | 8,363 | 6,350,249 |
| 焦炭 | 万吨 |  |  | 0.49 |  |  |  | **0.49** | 29.2 | 100 | 95,700 | 28,435 | 13,334 |
| 焦炉煤气 | 亿立方米 | 0.37 | 4.23 | 0.03 | 0.15 | 1.59 | 4.57 | **10.94** | 12.1 | 100 | 37,300 | 16,726 | 682,525 |
| 高炉煤气 | 亿立方米 | 17.39 | 72.19 | 124.33 | 65.88 | 61.12 | 52.07 | **392.98** | 70.8 | 100 | 219,000 | 3,763 | 32,385,364 |
| 转炉煤气 | 亿立方米 | 2.58 | 1.51 |  | 3.19 | 0.71 | 8.38 | **16.37** | 46.9 | 100 | 145,000 | 7,945 | 1,885,865 |
| 其他煤气 | 亿立方米 |  | 0.11 |  |  | 0.32 |  | **0.43** | 12.1 | 100 | 37,300 | 5,227 | 8,384 |
| 其他焦化产品 | 万吨 |  |  |  |  |  |  | **0** | 25.8 | 100 | 95,700 | 28,435 | 0 |
| 原油 | 万吨 |  | 0.03 |  |  |  |  | **0.03** | 20 | 100 | 71,100 | 41,816 | 892 |
| 汽油 | 万吨 |  |  |  |  |  |  | **0** | 18.9 | 100 | 67,500 | 43,070 | 0 |
| 煤油 | 万吨 |  |  |  |  |  |  | **0** | 19.6 | 100 | 71,900 | 43070 | 0 |
| 柴油 | 万吨 | 0.33 | 1.35 | 0.85 | 0.63 | 0.85 | 1.59 | **5.6** | 20.2 | 100 | 72,600 | 42,652 | 173,406 |
| 燃料油 | 万吨 |  | 0.82 | 0.25 | 1.03 |  |  | **2.1** | 21.1 | 100 | 75,500 | 41,816 | 66,299 |
| 石脑油 | 万吨 |  |  |  |  |  |  | **0** | 20.2 | 100 | 72,600 | 43,906 | 0 |
| 润滑油 | 万吨 |  |  |  |  |  |  | **0** | 20 | 100 | 71,900 | 41,398 | 0 |
| 石蜡 | 万吨 |  |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 39,934 | 0 |
| 溶剂油 | 万吨 |  |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 42,945 | 0 |
| 石油沥青 | 万吨 |  |  |  |  |  |  | **0** | 21 | 100 | 69,300 | 38,931 | 0 |
| 石油焦 | 万吨 |  | 5.71 |  | 2.22 |  |  | **7.93** | 26.6 | 100 | 82,900 | 31,947 | 210,019 |
| 液化石油气 | 万吨 |  |  |  |  |  |  | **0** | 17.2 | 100 | 61,600 | 50,179 | 0 |
| 炼厂干气 | 万吨 |  | 0.74 | 0.85 | 0.34 |  |  | **1.93** | 15.7 | 100 | 48,200 | 46,055 | 42,843 |
| 其他石油制品 | 万吨 |  |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 41,816 | 0 |
| 天然气 | 亿立方米 | 0.11 | 10.01 | 1.71 |  | 0.05 | 0.21 | **12.09** | 15.3 | 100 | 54,300 | 38,931 | 2,555,770 |
| 液化天然气 | 万吨 |  |  |  |  |  |  | **0** | 15.3 | 100 | 54,300 | 51,434 | 0 |
| 其他能源 | 万吨标煤 |  | 135.21 | 182.66 | 0.17 | 26.28 |  | **344.32** | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  | 小计 | 498,155,164 |
| 来源：《中国能源统计年鉴2013》 | | |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2012年华中电网火力发电量 | | | | |
| **省名称** | **发电量** | **发电量** | **厂用电率\*** | **供电量** |
|  | **（亿kWh)** | **（MWh)** | **（%）** | **（MWh)** |
| 江西省 | 610 | 61,000,000 | 5.4 | 57,706,000 |
| 河南省 | 2465 | 246,500,000 | 6 | 231,710,000 |
| 湖北省 | 863 | 86,300,000 | 5.4 | 81,639,800 |
| 湖南省 | 765 | 76,500,000 | 6 | 71,910,000 |
| 重庆市 | 336 | 33,600,000 | 8 | 30,912,000 |
| 四川省 | 584 | 58,400,000 | 6 | 54,896,000 |
| **总计** |  | 562,300,000 |  | 528,773,800 |
| 来源：《中国电力年鉴2013》 | | |  |  |

2012年华中电网电量边际排放因子结果

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 华中电网 | 西北电网净调入 | 华北电网净调入 | 合计 | |
| 供电量/MWh | 528,773,800 | 15,965,910 | 5,673,710 | | 550,413,420 |
| 调入电网OM/tCO2e/MWh |  | 0.9546 | 1.0583 | |  |
| 排放量/tCO2e | 498,155,164 |  |  | | 519,400,160 |
| 电量边际排放因子/tCO2e/MWh |  |  |  | | 0.9437 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2013年华中电网电量边际排放因子计算表 | | | | | | | | | | | | | |
| **燃料分类** | **单位** | **江西省** | **河南省** | **湖北省** | **湖南省** | **重庆市** | **四川省** | **小计** | **含碳量** | **碳氧化率** | **燃料排放因子** | **平均低位发热量** | **CO2排放量（tCO2e）** |
|  |  |  |  |  |  |  |  |  | **（tc/TJ）** | **（%）** | **(kgCO2/TJ)** | **（MJ/t,m3）** | **L=G×J×K/100000（质量单位）** |
|  |  | **A** | **B** | **C** | **D** | **E** | **F** | **G=A+B+C+D+E+F** | **H** | **I** | **J** | **K** | **L=G×J×K/10000 (体积单位)** |
| 原煤 | 万吨 | 3032.32 | 11618.93 | 3874.8 | 3526.21 | 1682.96 | 2873.73 | **26608.95** | 25.8 | 100 | 87,300 | 20,908 | 485,684,756 |
| 洗精煤 | 万吨 |  | 378.28 |  |  |  |  | **378.28** | 25.8 | 100 | 87,300 | 26,344 | 8,699,801 |
| 其他洗煤 | 万吨 |  | 115.43 |  |  | 144.25 | 102.27 | **361.95** | 25.8 | 100 | 87,300 | 8,363 | 2,642,560 |
| 型煤 | 万吨 |  |  |  |  |  |  | **0** | 26.6 | 100 | 87,300 | 20,908 | 0 |
| 煤矸石 | 万吨 | 70.79 | 257.59 | 56.54 | 119.76 | 225.57 | 171.59 | **901.84** | 25.8 | 100 | 87,300 | 8,363 | 6,584,243 |
| 焦炭 | 万吨 |  |  | 0.1 |  |  |  | **0.1** | 29.2 | 100 | 95,700 | 28,435 | 2,721 |
| 焦炉煤气 | 亿立方米 | 0.39 | 5.36 | 0.09 | 1.19 | 2.16 | 8.94 | **18.13** | 12.1 | 100 | 37,300 | 16,726 | 1,131,094 |
| 高炉煤气 | 亿立方米 | 62.66 | 83.92 | 140.49 | 69.05 | 91.99 | 76.21 | **524.32** | 70.8 | 100 | 219,000 | 3,763 | 43,209,054 |
| 转炉煤气 | 亿立方米 | 3.66 | 1.53 |  |  | 0.61 | 12.6 | **18.4** | 46.9 | 100 | 145,000 | 7,945 | 2,119,726 |
| 其他煤气 | 亿立方米 |  | 0.58 |  |  |  |  | **0.58** | 12.1 | 100 | 37,300 | 5,227 | 11,308 |
| 其他焦化产品 | 万吨 |  |  |  |  |  |  | **0** | 25.8 | 100 | 95,700 | 28,435 | 0 |
| 原油 | 万吨 |  | 0.06 |  |  |  |  | **0.06** | 20 | 100 | 71,100 | 41,816 | 1,784 |
| 汽油 | 万吨 |  |  |  |  |  |  | **0** | 18.9 | 100 | 67,500 | 43,070 | 0 |
| 煤油 | 万吨 |  |  |  |  |  |  | **0** | 19.6 | 100 | 71,900 | 43070 | 0 |
| 柴油 | 万吨 | 0.23 | 1.37 | 0.75 | 0.49 | 0.7 | 0.92 | **4.46** | 20.2 | 100 | 72,600 | 42,652 | 138,105 |
| 燃料油 | 万吨 |  | 0.74 | 0.16 | 0.7 | 0.05 |  | **1.65** | 21.1 | 100 | 75,500 | 41,816 | 52,092 |
| 石脑油 | 万吨 |  |  |  |  |  |  | **0** | 20.2 | 100 | 72,600 | 43,906 | 0 |
| 润滑油 | 万吨 |  |  |  |  |  |  | **0** | 20 | 100 | 71,900 | 41,398 | 0 |
| 石蜡 | 万吨 |  |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 39,934 | 0 |
| 溶剂油 | 万吨 |  |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 42,945 | 0 |
| 石油沥青 | 万吨 |  |  |  |  |  |  | **0** | 21 | 100 | 69,300 | 38,931 | 0 |
| 石油焦 | 万吨 | 0.11 | 6.73 |  | 4.05 |  |  | **10.89** | 26.6 | 100 | 82,900 | 31,947 | 288,411 |
| 液化石油气 | 万吨 |  |  |  |  |  |  | **0** | 17.2 | 100 | 61,600 | 50,179 | 0 |
| 炼厂干气 | 万吨 | 1.12 | 0.73 | 0.75 | 0.21 |  |  | **2.81** | 15.7 | 100 | 48,200 | 46,055 | 62,378 |
| 其他石油制品 | 万吨 |  |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 41,816 | 0 |
| 天然气 | 亿立方米 | 0.09 | 8.31 | 1.84 |  | 0.38 | 1.38 | **12** | 15.3 | 100 | 54,300 | 38,931 | 2,536,744 |
| 液化天然气 | 万吨 |  |  |  |  |  |  | **0** | 15.3 | 100 | 54,300 | 51,434 | 0 |
| 其他能源 | 万吨标煤 | 31.03 | 158.25 | 256.35 | 52.36 | 9.12 | 38.19 | **545.3** | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  | 小计 | 553,164,779 |
| 来源：《中国能源统计年鉴2014》 | | |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2013年华中电网火力发电量 | | | | |
| **省名称** | **发电量** | **发电量** | **厂用电率\*** | **供电量** |
|  | **（亿kWh)** | **（MWh)** | **（%）** | **（MWh)** |
| 江西省 | 723 | 72,300,000 | 5.16 | 68,569,320 |
| 河南省 | 2691 | 269,100,000 | 5.57 | 254,111,130 |
| 湖北省 | 1054 | 105,400,000 | 5.24 | 99,877,040 |
| 湖南省 | 843 | 84,300,000 | 5.85 | 79,368,450 |
| 重庆市 | 412 | 41,200,000 | 7.7 | 38,027,600 |
| 四川省 | 593 | 59,300,000 | 5.2 | 56,216,400 |
| **总计** |  | 631,600,000 |  | 596,169,940 |
| 来源：《中国电力年鉴2014》 | | |  |  |

2013年华中电网电量边际排放因子结果

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 华中电网 | 西北电网净调入 | 华北电网净调入 | 合计 | |
| 供电量/MWh | 596,169,940 | 13,823,150 | 8,703,210 | | 618,696,300 |
| 调入电网OM/tCO2e/MWh |  | 0.9424 | 0.9913 | |  |
| 排放量/tCO2e | 553,164,779 |  |  | | 574,818,731 |
| 电量边际排放因子/tCO2e/MWh |  |  |  | | 0.9291 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2014年华中电网电量边际排放因子计算表 | | | | | | | | | | | | | |
| **燃料分类** | **单位** | **江西省** | **河南省** | **湖北省** | **湖南省** | **重庆市** | **四川省** | **小计** | **含碳量** | **碳氧化率** | **燃料排放因子** | **平均低位发热量** | **CO2排放量（tCO2e）** |
|  |  |  |  |  |  |  |  |  | **（tc/TJ）** | **（%）** | **(kgCO2/TJ)** | **（MJ/t,m3）** | **L=G×J×K/100000（质量单位）** |
|  |  | **A** | **B** | **C** | **D** | **E** | **F** | **G=A+B+C+D+E+F** | **H** | **I** | **J** | **K** | **L=G×J×K/10000 (体积单位)** |
| 原煤 | 万吨 | 2878.79 | 11397.74 | 3645.9 | 2993.55 | 1711.12 | 2399.3 | **25026.4** | 25.8 | 100 | 87,300 | 20,908 | 456,798,971 |
| 洗精煤 | 万吨 |  |  |  |  |  |  | **0** | 25.8 | 100 | 87,300 | 26,344 | 0 |
| 其他洗煤 | 万吨 |  | 96.53 |  |  | 54.36 | 98.43 | **249.32** | 25.8 | 100 | 87,300 | 8,363 | 1,820,260 |
| 型煤 | 万吨 |  |  |  |  |  |  | **0** | 26.6 | 100 | 87,300 | 20,908 | 0 |
| 煤矸石 | 万吨 | 60.41 | 144.65 | 74.79 | 28.57 | 282.85 | 231.97 | **823.24** | 25.8 | 100 | 87,300 | 8,363 | 6,010,392 |
| 焦炭 | 万吨 |  |  | 0.89 |  |  |  | **0.89** | 29.2 | 100 | 95,700 | 28,435 | 24,219 |
| 焦炉煤气 | 亿立方米 | 1.05 | 10.11 | 0.04 | 1.47 | 0.99 | 9.21 | **22.87** | 12.1 | 100 | 37,300 | 16,726 | 1,426,813 |
| 高炉煤气 | 亿立方米 | 69.6 | 90.04 | 133.06 | 76.19 | 42.06 | 84.46 | **495.41** | 70.8 | 100 | 219,000 | 3,763 | 40,826,589 |
| 转炉煤气 | 亿立方米 | 4.41 | 1.55 |  |  | 0.48 | 11.37 | **17.81** | 46.9 | 100 | 145,000 | 7,945 | 2,051,757 |
| 其他煤气 | 亿立方米 |  | 0.37 |  | 0.15 |  |  | **0.52** | 12.1 | 100 | 37,300 | 5,227 | 10,138 |
| 其他焦化产品 | 万吨 |  |  |  |  |  |  | **0** | 25.8 | 100 | 95,700 | 28,435 | 0 |
| 原油 | 万吨 |  | 0.1 |  |  |  |  | **0.1** | 20 | 100 | 71,100 | 41,816 | 2,973 |
| 汽油 | 万吨 |  |  |  |  |  |  | **0** | 18.9 | 100 | 67,500 | 43,070 | 0 |
| 煤油 | 万吨 |  |  |  |  |  |  | **0** | 19.6 | 100 | 71,900 | 43070 | 0 |
| 柴油 | 万吨 | 0.15 | 1.21 | 0.73 | 0.52 | 0.92 | 0.72 | **4.25** | 20.2 | 100 | 72,600 | 42,652 | 131,603 |
| 燃料油 | 万吨 |  | 0.41 | 0.13 | 2.58 | 0.06 |  | **3.18** | 21.1 | 100 | 75,500 | 41,816 | 100,396 |
| 石脑油 | 万吨 |  |  |  |  |  |  | **0** | 20.2 | 100 | 72,600 | 43,906 | 0 |
| 润滑油 | 万吨 |  |  |  |  |  |  | **0** | 20 | 100 | 71,900 | 41,398 | 0 |
| 石蜡 | 万吨 |  |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 39,934 | 0 |
| 溶剂油 | 万吨 |  |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 42,945 | 0 |
| 石油沥青 | 万吨 |  |  |  |  |  |  | **0** | 21 | 100 | 69,300 | 38,931 | 0 |
| 石油焦 | 万吨 | 2.5 | 5.46 |  | 4.04 |  |  | **12** | 26.6 | 100 | 82,900 | 31,947 | 317,809 |
| 液化石油气 | 万吨 |  |  |  |  |  |  | **0** | 17.2 | 100 | 61,600 | 50,179 | 0 |
| 炼厂干气 | 万吨 | 1.55 | 1.56 | 0.65 | 0.34 |  |  | **4.1** | 15.7 | 100 | 48,200 | 45,998 | 90,901 |
| 其他石油制品 | 万吨 | 0.03 |  |  |  |  |  | **0.03** | 20 | 100 | 72,200 | 41,816 | 906 |
| 天然气 | 亿立方米 | 0.07 | 6.72 | 1.88 |  | 0.05 | 1.98 | **10.7** | 15.3 | 100 | 54,300 | 38,931 | 2,261,930 |
| 液化天然气 | 万吨 |  |  |  |  |  |  | **0** | 15.3 | 100 | 54,300 | 51,434 | 0 |
| 其他能源 | 万吨标煤 | 60.18 | 180.66 | 210.31 | 92.26 | 15.74 | 59.68 | **618.83** | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  | 小计 | 511,875,657 |
| 来源：《中国能源统计年鉴2015》 | | |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2014年华中电网火力发电量 | | | | |
| **省名称** | **发电量** | **发电量** | **厂用电率\*** | **供电量** |
|  | **（亿kWh)** | **（MWh)** | **（%）** | **（MWh)** |
| 江西省 | 737 | 73,700,000 | 4.89 | 70,096,070 |
| 河南省 | 2571 | 257,100,000 | 5.61 | 242,676,690 |
| 湖北省 | 997 | 99,700,000 | 5.22 | 94,495,660 |
| 湖南省 | 765 | 76,500,000 | 5.82 | 72,047,700 |
| 重庆市 | 431 | 43,100,000 | 8.09 | 39,613,210 |
| 四川省 | 547 | 54,700,000 | 5 | 51,965,000 |
| **总计** |  | 604,800,000 |  | 570,894,330 |
| 来源：《中国电力年鉴2015》 | | |  |  |

2014年华中电网电量边际排放因子结果

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 华中电网 | 西北电网净调入 | 华北电网净调入 | 合计 | |
| 供电量/MWh | 570,894,330 | 22,136,630 | 7,534,900 | | 600,565,860 |
| 调入电网OM/tCO2e/MWh |  | 0.9041 | 0.9551 | |  |
| 排放量/tCO2e | 511,875,657 |  |  | | 539,086,288 |
| 电量边际排放因子/tCO2e/MWh |  |  |  | | 0.8976 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2012年西北电网电量边际排放因子计算表 | | | | | | | | | | | | |
| **燃料分类** | **单位** | **陕西省** | **甘肃省** | **青海省** | **宁夏** | **新疆** | **小计** | **含碳量** | **碳氧化率** | **燃料排放因子** | **平均低位发热量** | **CO2排放量（tCO2e）** |
|  |  |  |  |  |  |  |  | **（tc/TJ）** | **（%）** | **(kgCO2/TJ)** | **（MJ/t,km3）** | **K=F×I×J/100000（质量单位）** |
|  |  | **A** | **B** | **C** | **D** | **E** | **F=A+B+C+D+E** | **G** | **H** | **I** | **J** | **K=F×I×J/10000 (体积单位)** |
| 原煤 | 万吨 | 4160.44 | 3445.38 | 603.47 | 4626.5 | 4966.9 | **17802.64** | 25.8 | 100 | 87,300 | 20,908 | 324,945,962 |
| 洗精煤 | 万吨 |  |  |  |  |  | **0** | 25.8 | 100 | 87,300 | 26,344 | 0 |
| 其他洗煤 | 万吨 | 1522.62 |  |  | 351.83 | 8.45 | **1882.9** | 25.8 | 100 | 87,300 | 8,363 | 13,746,863 |
| 型煤 | 万吨 |  |  |  |  |  | **0** | 26.6 | 100 | 87,300 | 20,908 | 0 |
| 煤矸石 | 万吨 | 286.59 | 41.16 |  | 100.76 | 114.88 | **543.39** | 25.8 | 100 | 87,300 | 8,363 | 3,967,236 |
| 焦炭 | 万吨 |  |  |  |  |  | **0** | 29.2 | 100 | 95,700 | 28,435 | 0 |
| 焦炉煤气 | 亿立方米 | 16.57 | 0.5 |  | 1.23 | 2.64 | **20.94** | 12.1 | 100 | 37,300 | 16,726 | 1,306,404 |
| 高炉煤气 | 亿立方米 | 23.45 | 3.76 |  | 0.65 | 4.22 | **32.08** | 70.8 | 100 | 219,000 | 3,763 | 2,643,703 |
| 转炉煤气 | 亿立方米 |  | 1.01 |  |  | 1.77 | **2.78** | 46.9 | 100 | 145,000 | 7,945 | 320,263 |
| 其他煤气 | 亿立方米 |  |  |  |  |  | **0** | 12.1 | 100 | 37,300 | 5,227 | 0 |
| 其他焦化产品 | 万吨 |  |  |  |  |  | **0** | 25.8 | 100 | 95,700 | 28,435 | 0 |
| 原油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 71,100 | 41,816 | 0 |
| 汽油 | 万吨 |  |  |  |  |  | **0** | 18.9 | 100 | 67,500 | 43,070 | 0 |
| 煤油 | 万吨 |  |  |  |  |  | **0** | 19.6 | 100 | 71,900 | 43070 | 0 |
| 柴油 | 万吨 | 0.45 | 0.34 | 0.27 | 0.19 | 0.68 | **1.93** | 20.2 | 100 | 72,600 | 42,652 | 59,763 |
| 燃料油 | 万吨 |  | 0.07 | 0.07 | 0.4 | 0.05 | **0.59** | 21.1 | 100 | 75,500 | 41,816 | 18,627 |
| 石脑油 | 万吨 |  |  |  |  |  | **0** | 20.2 | 100 | 72,600 | 43,906 | 0 |
| 润滑油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 71,900 | 41,398 | 0 |
| 石蜡 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 39,934 | 0 |
| 溶剂油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 42,945 | 0 |
| 石油沥青 | 万吨 |  |  |  |  |  | **0** | 21 | 100 | 69,300 | 38,931 | 0 |
| 石油焦 | 万吨 |  |  |  |  |  | **0** | 26.6 | 100 | 82,900 | 31,947 | 0 |
| 液化石油气 | 万吨 |  |  |  |  |  | **0** | 17.2 | 100 | 61,600 | 50,179 | 0 |
| 炼厂干气 | 万吨 |  | 1.58 |  |  | 5.31 | **6.89** | 15.7 | 100 | 48,200 | 46,055 | 152,948 |
| 其他石油制品 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 41,816 | 0 |
| 天然气 | 亿立方米 | 0.94 |  | 4.39 | 0.56 | 9.02 | **14.91** | 15.3 | 100 | 54,300 | 38,931 | 3,151,904 |
| 液化天然气 | 万吨 |  |  |  |  |  | **0** | 15.3 | 100 | 54,300 | 51,434 | 0 |
| 其他能源 | 万吨标煤 | 2.03 |  |  |  |  | **2.03** | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  | 小计 | 350,313,673 |
| 来源：《中国能源统计年鉴2013》 | | |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2012年西北电网火力发电量 | | | | |
| **省名称** | **发电量** | **发电量** | **厂用电率\*** | **供电量** |
|  | **（亿kWh)** | **（MWh)** | **（%）** | **（MWh)** |
| 陕西省 | 1149 | 114,900,000 | 7.1 | 106,742,100 |
| 甘肃省 | 666 | 66,600,000 | 6.5 | 62,271,000 |
| 青海省 | 120 | 12,000,000 | 7.9 | 11,052,000 |
| 宁夏回族自治区 | 952 | 95,200,000 |  | 95,200,000 |
| 新疆维吾尔自治区 | 998 | 99,800,000 | 8.1 | 91,716,200 |
| **总计** |  | 388,500,000 |  | 366,981,300 |
| 来源：《中国电力年鉴2013》 | | |  |  |

2012年西北电网电量边际排放因子结果

|  |  |  |  |
| --- | --- | --- | --- |
|  | 西北电网 | 合计 | |
| 供电量/MWh | 366,981,300 | 366,981,300 |
| 排放量/tCO2e | 350,313,673 | 350,313,673 |
| 电量边际排放因子/tCO2e/MWh |  | 0.9546 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2013年西北电网电量边际排放因子计算表 | | | | | | | | | | | | |
| **燃料分类** | **单位** | **陕西省** | **甘肃省** | **青海省** | **宁夏** | **新疆** | **小计** | **含碳量** | **碳氧化率** | **燃料排放因子** | **平均低位发热量** | **CO2排放量（tCO2e）** |
|  |  |  |  |  |  |  |  | **（tc/TJ）** | **（%）** | **(kgCO2/TJ)** | **（MJ/t,km3）** | **K=F×I×J/100000（质量单位）** |
|  |  | **A** | **B** | **C** | **D** | **E** | **F=A+B+C+D+E** | **G** | **H** | **I** | **J** | **K=F×I×J/10000 (体积单位)** |
| 原煤 | 万吨 | 4671.64 | 3426.3 | 660.42 | 4963.3 | 6444.3 | **20165.95** | 25.8 | 100 | 87,300 | 20,908 | 368,082,713 |
| 洗精煤 | 万吨 |  |  |  |  |  | **0** | 25.8 | 100 | 87,300 | 26,344 | 0 |
| 其他洗煤 | 万吨 | 1442.01 |  |  | 223.52 | 9.31 | **1674.84** | 25.8 | 100 | 87,300 | 8,363 | 12,227,838 |
| 型煤 | 万吨 |  |  |  |  |  | **0** | 26.6 | 100 | 87,300 | 20,908 | 0 |
| 煤矸石 | 万吨 | 329.24 | 46.53 |  | 78.17 |  | **453.94** | 25.8 | 100 | 87,300 | 8,363 | 3,314,170 |
| 焦炭 | 万吨 |  |  |  |  |  | **0** | 29.2 | 100 | 95,700 | 28,435 | 0 |
| 焦炉煤气 | 亿立方米 | 26.9 | 0.38 |  | 1.68 | 3.47 | **32.43** | 12.1 | 100 | 37,300 | 16,726 | 2,023,242 |
| 高炉煤气 | 亿立方米 | 30 | 1.54 |  | 1.29 | 17.29 | **50.12** | 70.8 | 100 | 219,000 | 3,763 | 4,130,374 |
| 转炉煤气 | 亿立方米 |  | 0.99 |  |  | 1.65 | **2.64** | 46.9 | 100 | 145,000 | 7,945 | 304,135 |
| 其他煤气 | 亿立方米 |  |  |  |  |  | **0** | 12.1 | 100 | 37,300 | 5,227 | 0 |
| 其他焦化产品 | 万吨 |  |  |  |  |  | **0** | 25.8 | 100 | 95,700 | 28,435 | 0 |
| 原油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 71,100 | 41,816 | 0 |
| 汽油 | 万吨 |  |  |  |  |  | **0** | 18.9 | 100 | 67,500 | 43,070 | 0 |
| 煤油 | 万吨 |  |  |  |  |  | **0** | 19.6 | 100 | 71,900 | 43070 | 0 |
| 柴油 | 万吨 | 0.62 | 0.24 | 0.26 | 0.22 | 0.67 | **2.01** | 20.2 | 100 | 72,600 | 42,652 | 62,240 |
| 燃料油 | 万吨 |  | 0.04 | 0.06 | 0.17 | 0.03 | **0.3** | 21.1 | 100 | 75,500 | 41,816 | 9,471 |
| 石脑油 | 万吨 |  |  |  |  |  | **0** | 20.2 | 100 | 72,600 | 43,906 | 0 |
| 润滑油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 71,900 | 41,398 | 0 |
| 石蜡 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 39,934 | 0 |
| 溶剂油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 42,945 | 0 |
| 石油沥青 | 万吨 |  |  |  |  |  | **0** | 21 | 100 | 69,300 | 38,931 | 0 |
| 石油焦 | 万吨 |  |  |  |  |  | **0** | 26.6 | 100 | 82,900 | 31,947 | 0 |
| 液化石油气 | 万吨 |  |  |  |  |  | **0** | 17.2 | 100 | 61,600 | 50,179 | 0 |
| 炼厂干气 | 万吨 |  | 2.04 |  |  |  | **2.04** | 15.7 | 100 | 48,200 | 46,055 | 45,285 |
| 其他石油制品 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 41,816 | 0 |
| 天然气 | 亿立方米 | 0.75 |  | 4.35 | 0.26 | 9.07 | **14.43** | 15.3 | 100 | 54,300 | 38,931 | 3,050,435 |
| 液化天然气 | 万吨 |  |  |  |  |  | **0** | 15.3 | 100 | 54,300 | 51,434 | 0 |
| 其他能源 | 万吨标煤 | 0.67 |  |  |  | 47.93 | **48.6** | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  | 小计 | 393,249,903 |
| 来源：《中国能源统计年鉴2014》 | | |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2013年西北电网火力发电量 | | | | |
| **省名称** | **发电量** | **发电量** | **厂用电率\*** | **供电量** |
|  | **（亿kWh)** | **（MWh)** | **（%）** | **（MWh)** |
| 陕西省 | 1174 | 117,400,000 | 6.93 | 109,264,180 |
| 甘肃省 | 701 | 70,100,000 | 6.15 | 65,788,850 |
| 青海省 | 136 | 13,600,000 | 7.61 | 12,565,040 |
| 宁夏回族自治区 | 1031 | 103,100,000 |  | 103,100,000 |
| 新疆维吾尔自治区 | 1376 | 137,600,000 | 8.01 | 126,578,240 |
| **总计** |  | 441,800,000 |  | 417,296,310 |
| 来源：《中国电力年鉴2014》 | | |  |  |

2013年西北电网电量边际排放因子结果

|  |  |  |  |
| --- | --- | --- | --- |
|  | 西北电网 | 合计 | |
| 供电量/MWh | 417,296,310 | 417,296,310 |
| 排放量/tCO2e | 393,249,903 | 393,249,903 |
| 电量边际排放因子/tCO2e/MWh |  | 0.9424 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2014年西北电网电量边际排放因子计算表 | | | | | | | | | | | | |
| **燃料分类** | **单位** | **陕西省** | **甘肃省** | **青海省** | **宁夏** | **新疆** | **小计** | **含碳量** | **碳氧化率** | **燃料排放因子** | **平均低位发热量** | **CO2排放量（tCO2e）** |
|  |  |  |  |  |  |  |  | **（tc/TJ）** | **（%）** | **(kgCO2/TJ)** | **（MJ/t,km3）** | **K=F×I×J/100000（质量单位）** |
|  |  | **A** | **B** | **C** | **D** | **E** | **F=A+B+C+D+E** | **G** | **H** | **I** | **J** | **K=F×I×J/10000 (体积单位)** |
| 原煤 | 万吨 | 4858.59 | 3321.54 | 653.44 | 5038.1 | 8189.9 | **22061.51** | 25.8 | 100 | 87,300 | 20,908 | 402,681,771 |
| 洗精煤 | 万吨 |  |  |  |  |  | **0** | 25.8 | 100 | 87,300 | 26,344 | 0 |
| 其他洗煤 | 万吨 | 1369.95 |  |  |  | 8.98 | **1378.93** | 25.8 | 100 | 87,300 | 8,363 | 10,067,429 |
| 型煤 | 万吨 |  |  |  |  |  | **0** | 26.6 | 100 | 87,300 | 20,908 | 0 |
| 煤矸石 | 万吨 | 335.13 | 51.22 |  | 129.22 |  | **515.57** | 25.8 | 100 | 87,300 | 8,363 | 3,764,124 |
| 焦炭 | 万吨 |  |  |  |  |  | **0** | 29.2 | 100 | 95,700 | 28,435 | 0 |
| 焦炉煤气 | 亿立方米 | 34.95 | 0.39 |  | 1.91 | 2.59 | **39.84** | 12.1 | 100 | 37,300 | 16,726 | 2,485,537 |
| 高炉煤气 | 亿立方米 | 30.49 | 0.52 |  | 1.84 | 10.54 | **43.39** | 70.8 | 100 | 219,000 | 3,763 | 3,575,757 |
| 转炉煤气 | 亿立方米 |  | 0.8 |  |  | 2.4 | **3.2** | 46.9 | 100 | 145,000 | 7,945 | 368,648 |
| 其他煤气 | 亿立方米 |  |  |  |  |  | **0** | 12.1 | 100 | 37,300 | 5,227 | 0 |
| 其他焦化产品 | 万吨 |  |  |  |  |  | **0** | 25.8 | 100 | 95,700 | 28,435 | 0 |
| 原油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 71,100 | 41,816 | 0 |
| 汽油 | 万吨 |  |  |  |  |  | **0** | 18.9 | 100 | 67,500 | 43,070 | 0 |
| 煤油 | 万吨 |  |  |  |  |  | **0** | 19.6 | 100 | 71,900 | 43070 | 0 |
| 柴油 | 万吨 | 0.43 | 0.15 | 0.1 | 0.14 | 0.75 | **1.57** | 20.2 | 100 | 72,600 | 42,652 | 48,616 |
| 燃料油 | 万吨 |  | 0.04 | 0.04 | 0.2 | 0.02 | **0.3** | 21.1 | 100 | 75,500 | 41,816 | 9,471 |
| 石脑油 | 万吨 |  |  |  |  |  | **0** | 20.2 | 100 | 72,600 | 43,906 | 0 |
| 润滑油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 71,900 | 41,398 | 0 |
| 石蜡 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 39,934 | 0 |
| 溶剂油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 42,945 | 0 |
| 石油沥青 | 万吨 |  |  |  |  |  | **0** | 21 | 100 | 69,300 | 38,931 | 0 |
| 石油焦 | 万吨 |  |  |  |  |  | **0** | 26.6 | 100 | 82,900 | 31,947 | 0 |
| 液化石油气 | 万吨 |  |  |  |  |  | **0** | 17.2 | 100 | 61,600 | 50,179 | 0 |
| 炼厂干气 | 万吨 |  | 2.4 |  |  |  | **2.4** | 15.7 | 100 | 48,200 | 45,998 | 53,210 |
| 其他石油制品 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 41,816 | 0 |
| 天然气 | 亿立方米 | 0.59 |  | 2.57 |  | 6.97 | **10.13** | 15.3 | 100 | 54,300 | 38,931 | 2,141,435 |
| 液化天然气 | 万吨 |  |  |  |  |  | **0** | 15.3 | 100 | 54,300 | 51,434 | 0 |
| 其他能源 | 万吨标煤 | 0.31 |  |  |  | 55.08 | **55.39** | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  | 小计 | 425,195,998 |
| 来源：《中国能源统计年鉴2015》 | | |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2014年西北电网火力发电量 | | | | |
| **省名称** | **发电量** | **发电量** | **厂用电率\*** | **供电量** |
|  | **（亿kWh)** | **（MWh)** | **（%）** | **（MWh)** |
| 陕西省 | 1240 | 124,000,000 | 7.23 | 115,034,800 |
| 甘肃省 | 731 | 73,100,000 | 6.1 | 68,640,900 |
| 青海省 | 131 | 13,100,000 | 8.12 | 12,036,280 |
| 宁夏回族自治区 | 1053 | 105,300,000 |  | 105,300,000 |
| 新疆维吾尔自治区 | 1756 | 175,600,000 | 3.6 | 169,278,400 |
| **总计** |  | 491,100,000 |  | 470,290,380 |
| 来源：《中国电力年鉴2015》 | | |  |  |

2014年西北电网电量边际排放因子结果

|  |  |  |  |
| --- | --- | --- | --- |
|  | 西北电网 | 合计 | |
| 供电量/MWh | 470,290,380 | 470,290,380 |
| 排放量/tCO2e | 425,195,998 | 425,195,998 |
| 电量边际排放因子/tCO2e/MWh |  | 0.9041 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2012年南方电网电量边际排放因子计算表 | | | | | | | | | | | | |
| **燃料分类** | **单位** | **广东省** | **广西** | **贵州省** | **云南省** | **海南省** | **小计** | **含碳量** | **碳氧化率** | **燃料排放因子** | **平均低位发热量** | **CO2排放量（tCO2e）** |
|  |  |  |  |  |  |  |  | **（tc/TJ）** | **（%）** | **(kgCO2/TJ)** | **（MJ/t,km3）** | **J=E×H×I/100000（质量单位）** |
|  |  | **A** | **B** | **C** | **D** |  | **E=A+B+C+D** | **F** | **G** | **H** | **I** | **J=E×H×I/10000 (体积单位)** |
| 原煤 | 万吨 | 11112.44 | 2765.45 | 4033.75 | 3083.23 | 691.39 | **21686.26** | 25.8 | 100 | 87,300 | 20,908 | 395,832,451 |
| 洗精煤 | 万吨 |  |  |  |  |  | **0** | 25.8 | 100 | 87,300 | 26,344 | 0 |
| 其他洗煤 | 万吨 |  |  | 1358 | 40.06 |  | **1398.06** | 25.8 | 100 | 87,300 | 8,363 | 10,207,095 |
| 型煤 | 万吨 | 167.41 |  |  |  |  | **167.41** | 26.6 | 100 | 87,300 | 20,908 | 3,055,682 |
| 煤矸石 | 万吨 | 337.97 |  | 84.06 | 30.47 |  | **452.5** | 25.8 | 100 | 87,300 | 8,363 | 3,303,657 |
| 焦炭 | 万吨 |  |  |  |  |  | **0** | 29.2 | 100 | 95,700 | 28,435 | 0 |
| 焦炉煤气 | 亿立方米 |  | 3.69 | 2.05 | 2.29 |  | **8.03** | 12.1 | 100 | 37,300 | 16,726 | 500,975 |
| 高炉煤气 | 亿立方米 | 18.19 | 52.4 | 15.63 | 56.48 |  | **142.7** | 70.8 | 100 | 219,000 | 3,763 | 11,759,864 |
| 转炉煤气 | 亿立方米 | 1.69 | 3.46 |  | 3.59 |  | **8.74** | 46.9 | 100 | 145,000 | 7,945 | 1,006,870 |
| 其他煤气 | 亿立方米 |  |  | 0.8 |  |  | **0.8** | 12.1 | 100 | 37,300 | 5,227 | 15,597 |
| 其他焦化产品 | 万吨 |  |  |  |  |  | **0** | 25.8 | 100 | 95,700 | 28,435 | 0 |
| 原油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 71,100 | 41,816 | 0 |
| 汽油 | 万吨 |  |  |  |  |  | **0** | 18.9 | 100 | 67,500 | 43,070 | 0 |
| 煤油 | 万吨 |  |  |  |  |  | **0** | 19.6 | 100 | 71,900 | 43070 | 0 |
| 柴油 | 万吨 | 2.63 | 0.85 | 1.89 | 0.87 | 0.03 | **6.27** | 20.2 | 100 | 72,600 | 42,652 | 194,153 |
| 燃料油 | 万吨 | 20.63 | 0.08 |  |  |  | **20.71** | 21.1 | 100 | 75,500 | 41,816 | 653,837 |
| 石脑油 | 万吨 |  |  |  |  |  | **0** | 20.2 | 100 | 72,600 | 43,906 | 0 |
| 润滑油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 71,900 | 41,398 | 0 |
| 石蜡 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 39,934 | 0 |
| 溶剂油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 42,945 | 0 |
| 石油沥青 | 万吨 |  |  |  |  |  | **0** | 21 | 100 | 69,300 | 38,931 | 0 |
| 石油焦 | 万吨 | 28.37 |  |  | 1.39 |  | **29.76** | 26.6 | 100 | 82,900 | 31,947 | 788,166 |
| 液化石油气 | 万吨 |  | 0.11 |  |  |  | **0.11** | 17.2 | 100 | 61,600 | 50,179 | 3,400 |
| 炼厂干气 | 万吨 | 1.27 |  |  |  |  | **1.27** | 15.7 | 100 | 48,200 | 46,055 | 28,192 |
| 其他石油制品 | 万吨 | 0.47 |  |  |  |  | **0.47** | 20 | 100 | 72,200 | 41,816 | 14,190 |
| 天然气 | 亿立方米 | 32.49 |  |  |  | 6.84 | **39.33** | 15.3 | 100 | 54,300 | 38,931 | 8,314,178 |
| 液化天然气 | 万吨 | 178.8 | 0.11 |  |  |  | **178.91** | 15.3 | 100 | 54,300 | 51,434 | 4,996,717 |
| 其他能源 | 万吨标煤 | 283.26 | 160.43 |  | 46.52 | 4.5 | **494.71** | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  | 小计 | 440,675,024 |
| 来源：《中国能源统计年鉴2013》 | | |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2012年南方电网火力发电量 | | | | |
| **省名称** | **发电量** | **发电量** | **厂用电率** | **供电量** |
|  | **（亿kWh)** | **（MWh)** | **（%）** | **（MWh)** |
| 广东省 | 2848 | 284,800,000 | 5.8 | 268,281,600 |
| 广西壮族自治区 | 647 | 64,700,000 | 6.7 | 60,365,100 |
| 贵州省 | 1046 | 104,600,000 | 7.2 | 97,068,800 |
| 云南省 | 480 | 48,000,000 | 7.5 | 44,400,000 |
| 海南省 | 182 | 18,200,000 | 7.6 | 16,816,800 |
| **总计** |  | 520,300,000 |  | 486,932,300 |
| 来源：《中国电力年鉴2013》 | | |  |  |

2012年南方电网电量边际排放因子结果

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 南方电网 | 华中电网净调入 | 合计 | |
| 供电量/MWh | 486,932,300 | 16,752,770 | 503,685,070 |
| 调入电网OM/tCO2e/MWh |  | 0.9437 |  |
| 排放量/tCO2e | 440,675,024 |  | 456,483,853 |
| 电量边际排放因子/tCO2e/MWh |  |  | 0.9063 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2013年南方电网电量边际排放因子计算表 | | | | | | | | | | | | |
| **燃料分类** | **单位** | **广东省** | **广西** | **贵州省** | **云南省** | **海南省** | **小计** | **含碳量** | **碳氧化率** | **燃料排放因子** | **平均低位发热量** | **CO2排放量（tCO2e）** |
|  |  |  |  |  |  |  |  | **（tc/TJ）** | **（%）** | **(kgCO2/TJ)** | **（MJ/t,km3）** | **J=E×H×I/100000（质量单位）** |
|  |  | **A** | **B** | **C** | **D** |  | **E=A+B+C+D** | **F** | **G** | **H** | **I** | **J=E×H×I/10000 (体积单位)** |
| 原煤 | 万吨 | 11458.81 | 3105.02 | 4372.74 | 2706.19 | 794.95 | **22437.71** | 25.8 | 100 | 87,300 | 20,908 | 409,548,430 |
| 洗精煤 | 万吨 |  |  |  | 1.04 |  | **1.04** | 25.8 | 100 | 87,300 | 26,344 | 23,918 |
| 其他洗煤 | 万吨 |  |  | 1341.3 | 20.13 |  | **1361.43** | 25.8 | 100 | 87,300 | 8,363 | 9,939,663 |
| 型煤 | 万吨 | 171.26 |  |  |  |  | **171.26** | 26.6 | 100 | 87,300 | 20,908 | 3,125,955 |
| 煤矸石 | 万吨 | 433.9 |  | 79.03 | 26.88 |  | **539.81** | 25.8 | 100 | 87,300 | 8,363 | 3,941,098 |
| 焦炭 | 万吨 |  |  |  |  |  | **0** | 29.2 | 100 | 95,700 | 28,435 | 0 |
| 焦炉煤气 | 亿立方米 |  | 4.65 | 2.18 | 1.68 |  | **8.51** | 12.1 | 100 | 37,300 | 16,726 | 530,922 |
| 高炉煤气 | 亿立方米 | 19.74 | 58.46 | 18.54 | 77.26 |  | **174** | 70.8 | 100 | 219,000 | 3,763 | 14,339,288 |
| 转炉煤气 | 亿立方米 | 2.13 | 3.31 |  | 5.63 |  | **11.07** | 46.9 | 100 | 145,000 | 7,945 | 1,275,292 |
| 其他煤气 | 亿立方米 |  |  | 1.83 |  |  | **1.83** | 12.1 | 100 | 37,300 | 5,227 | 35,679 |
| 其他焦化产品 | 万吨 |  |  |  |  |  | **0** | 25.8 | 100 | 95,700 | 28,435 | 0 |
| 原油 | 万吨 | 0.02 |  |  |  |  | **0.02** | 20 | 100 | 71,100 | 41,816 | 595 |
| 汽油 | 万吨 |  |  |  |  |  | **0** | 18.9 | 100 | 67,500 | 43,070 | 0 |
| 煤油 | 万吨 |  |  |  |  |  | **0** | 19.6 | 100 | 71,900 | 43070 | 0 |
| 柴油 | 万吨 | 1.99 | 0.51 | 2.29 | 0.79 | 0.03 | **5.61** | 20.2 | 100 | 72,600 | 42,652 | 173,716 |
| 燃料油 | 万吨 | 19.72 | 0.07 |  |  |  | **19.79** | 21.1 | 100 | 75,500 | 41,816 | 624,792 |
| 石脑油 | 万吨 |  |  |  |  |  | **0** | 20.2 | 100 | 72,600 | 43,906 | 0 |
| 润滑油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 71,900 | 41,398 | 0 |
| 石蜡 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 39,934 | 0 |
| 溶剂油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 42,945 | 0 |
| 石油沥青 | 万吨 |  |  |  |  |  | **0** | 21 | 100 | 69,300 | 38,931 | 0 |
| 石油焦 | 万吨 | 17.27 |  |  |  |  | **17.27** | 26.6 | 100 | 82,900 | 31,947 | 457,380 |
| 液化石油气 | 万吨 |  |  |  |  |  | **0** | 17.2 | 100 | 61,600 | 50,179 | 0 |
| 炼厂干气 | 万吨 | 1.57 |  |  |  |  | **1.57** | 15.7 | 100 | 48,200 | 46,055 | 34,852 |
| 其他石油制品 | 万吨 | 0.65 |  |  |  |  | **0.65** | 20 | 100 | 72,200 | 41,816 | 19,624 |
| 天然气 | 亿立方米 | 32.09 | 0.1 |  |  | 4.23 | **36.42** | 15.3 | 100 | 54,300 | 38,931 | 7,699,018 |
| 液化天然气 | 万吨 | 168.56 | 0.12 |  |  | 0.03 | **168.71** | 15.3 | 100 | 54,300 | 51,434 | 4,711,845 |
| 其他能源 | 万吨标煤 |  | 100.38 |  | 44.23 | 11.54 | **156.15** | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  | 小计 | 456,482,065 |
| 来源：《中国能源统计年鉴2014》 | | |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2013年南方电网火力发电量 | | | | |
| **省名称** | **发电量** | **发电量** | **厂用电率** | **供电量** |
|  | **（亿kWh)** | **（MWh)** | **（%）** | **（MWh)** |
| 广东省 | 2955 | 295,500,000 | 5.64 | 278,833,800 |
| 广西壮族自治区 | 755 | 75,500,000 | 6.22 | 70,803,900 |
| 贵州省 | 1240 | 124,000,000 | 7.26 | 114,997,600 |
| 云南省 | 479 | 47,900,000 | 6.98 | 44,556,580 |
| 海南省 | 201 | 20,100,000 | 7.82 | 18,528,180 |
| **总计** |  | 563,000,000 |  | 527,720,060 |
| 来源：《中国电力年鉴2014》 | | |  |  |

2013年南方电网电量边际排放因子结果

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 南方电网 | 华中电网净调入 | 华东电网净调入 | 合计 | |
| 供电量/MWh | 527,720,060 | 12,007,880 | 22,000.0 | 539,749,940 |
| 调入电网OM/tCO2e/MWh |  | 0.9291 | 0.8222 |  |
| 排放量/tCO2e | 456,482,065 |  |  | 467,656,441 |
| 电量边际排放因子/tCO2e/MWh |  |  |  | 0.8664 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2014年南方电网电量边际排放因子计算表 | | | | | | | | | | | | |
| **燃料分类** | **单位** | **广东省** | **广西** | **贵州省** | **云南省** | **海南省** | **小计** | **含碳量** | **碳氧化率** | **燃料排放因子** | **平均低位发热量** | **CO2排放量（tCO2e）** |
|  |  |  |  |  |  |  |  | **（tc/TJ）** | **（%）** | **(kgCO2/TJ)** | **（MJ/t,km3）** | **J=E×H×I/100000（质量单位）** |
|  |  | **A** | **B** | **C** | **D** |  | **E=A+B+C+D** | **F** | **G** | **H** | **I** | **J=E×H×I/10000 (体积单位)** |
| 原煤 | 万吨 | 10760.05 | 2431.28 | 3759.24 | 2132.72 | 797.16 | **19880.45** | 25.8 | 100 | 87,300 | 20,908 | 362,871,572 |
| 洗精煤 | 万吨 |  |  |  | 2.7 |  | **2.7** | 25.8 | 100 | 87,300 | 26,344 | 62,095 |
| 其他洗煤 | 万吨 |  |  | 1172.4 | 13.4 |  | **1185.8** | 25.8 | 100 | 87,300 | 8,363 | 8,657,406 |
| 型煤 | 万吨 | 171.92 |  |  |  |  | **171.92** | 26.6 | 100 | 87,300 | 20,908 | 3,138,001 |
| 煤矸石 | 万吨 | 394.57 |  | 102.19 | 19.76 |  | **516.52** | 25.8 | 100 | 87,300 | 8,363 | 3,771,060 |
| 焦炭 | 万吨 |  |  |  |  |  | **0** | 29.2 | 100 | 95,700 | 28,435 | 0 |
| 焦炉煤气 | 亿立方米 | 0.42 | 6.83 | 3.25 | 1.41 |  | **11.91** | 12.1 | 100 | 37,300 | 16,726 | 743,041 |
| 高炉煤气 | 亿立方米 | 29.15 | 69.32 | 14.13 | 79.17 |  | **191.77** | 70.8 | 100 | 219,000 | 3,763 | 15,803,708 |
| 转炉煤气 | 亿立方米 | 2.31 | 5.34 |  | 3.07 |  | **10.72** | 46.9 | 100 | 145,000 | 7,945 | 1,234,971 |
| 其他煤气 | 亿立方米 |  |  |  |  |  | **0** | 12.1 | 100 | 37,300 | 5,227 | 0 |
| 其他焦化产品 | 万吨 |  |  |  |  |  | **0** | 25.8 | 100 | 95,700 | 28,435 | 0 |
| 原油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 71,100 | 41,816 | 0 |
| 汽油 | 万吨 |  |  |  |  |  | **0** | 18.9 | 100 | 67,500 | 43,070 | 0 |
| 煤油 | 万吨 |  |  |  |  |  | **0** | 19.6 | 100 | 71,900 | 43070 | 0 |
| 柴油 | 万吨 | 1.62 | 0.62 | 2.18 | 0.53 | 0.06 | **5.01** | 20.2 | 100 | 72,600 | 42,652 | 155,136 |
| 燃料油 | 万吨 | 17.18 | 0.01 |  |  |  | **17.19** | 21.1 | 100 | 75,500 | 41,816 | 542,707 |
| 石脑油 | 万吨 |  |  |  |  |  | **0** | 20.2 | 100 | 72,600 | 43,906 | 0 |
| 润滑油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 71,900 | 41,398 | 0 |
| 石蜡 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 39,934 | 0 |
| 溶剂油 | 万吨 |  |  |  |  |  | **0** | 20 | 100 | 72,200 | 42,945 | 0 |
| 石油沥青 | 万吨 |  |  |  |  |  | **0** | 21 | 100 | 69,300 | 38,931 | 0 |
| 石油焦 | 万吨 | 22.72 |  |  |  |  | **22.72** | 26.6 | 100 | 82,900 | 31,947 | 601,718 |
| 液化石油气 | 万吨 |  |  |  |  |  | **0** | 17.2 | 100 | 61,600 | 50,179 | 0 |
| 炼厂干气 | 万吨 | 2.18 |  |  |  |  | **2.18** | 15.7 | 100 | 48,200 | 45,998 | 48,333 |
| 其他石油制品 | 万吨 | 0.44 |  |  |  |  | **0.44** | 20 | 100 | 72,200 | 41,816 | 13,284 |
| 天然气 | 亿立方米 | 40.88 | 0.16 | 1.6 |  | 5.34 | **47.98** | 15.3 | 100 | 54,300 | 38,931 | 10,142,748 |
| 液化天然气 | 万吨 | 175.34 | 0.24 |  |  |  | **175.58** | 15.3 | 100 | 54,300 | 51,434 | 4,903,714 |
| 其他能源 | 万吨标煤 | 250 | 71.88 |  | 215.5 | 11.31 | **548.69** | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  | 小计 | 412,689,495 |
| 来源：《中国能源统计年鉴2015》 | | |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2014年南方电网火力发电量 | | | | |
| **省名称** | **发电量** | **发电量** | **厂用电率** | **供电量** |
|  | **（亿kWh)** | **（MWh)** | **（%）** | **（MWh)** |
| 广东省 | 2933 | 293,300,000 | 5.58 | 276,933,860 |
| 广西壮族自治区 | 664 | 66,400,000 | 6.26 | 62,243,360 |
| 贵州省 | 1094 | 109,400,000 | 7.15 | 101,577,900 |
| 云南省 | 401 | 40,100,000 | 7.22 | 37,204,780 |
| 海南省 | 215 | 21,500,000 | 7.42 | 19,904,700 |
| **总计** |  | 530,700,000 |  | 497,864,600 |
| 来源：《中国电力年鉴2015》 | | |  |  |

2014年南方电网电量边际排放因子结果

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 南方电网 | 华中电网净调入 | 华东电网净调入 | 合计 | |
| 供电量/MWh | 497,864,600 | 12,295,940 | 16,700.0 | 510,177,240 |
| 调入电网OM/tCO2e/MWh |  | 0.8976 | 0.7932 |  |
| 排放量/tCO2e | 412,689,495 |  |  | 423,739,953 |
| 电量边际排放因子/tCO2e/MWh |  |  |  | 0.8306 |