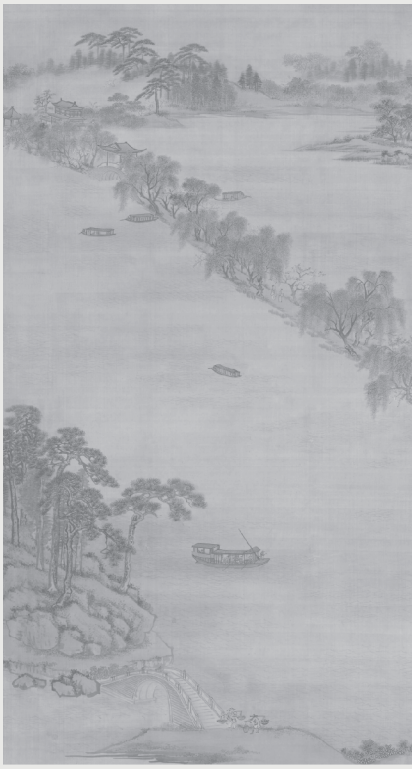

十一、城市建设环境保护

URBAN CONSTRUCTION AND ENVIRONMENTAL PROTECTION

11 城市建设、环境保护
Urban Construction and Environmental Protection

主 要 统 计 指 标
Major Statistical Indicators

市区建成区面积	Developed Area in Urban District	591.08	平方千米	（sq.km）
市区实有道路面积	Area of Roads in Urban District at Year-end	8291	万平方米	（10, 000 sq.m）
市区用电量	Electricity Consumption of Urban District	673.73	亿千瓦时	（100 million kw/h）
#工业用电	Industrial Electricity Consumption	389.00	亿千瓦时	（100 million kw/h）
生活用电	Electricity Consumption for Residential Use	105.29	亿千瓦时	（100 million kw/h）
市区供水能力	Water-supply Capacity of Urban District	421	万吨/日	（10, 000 tons/day）
市区供水总量	Annual Volume of Tap Water Supplied in Urban District	83192	万吨	（10, 000 tons）
市区气化率	Percentage of Population with Access to Gas in Urban District	100	%	（%）
市区公园绿地面积	Park Green Area in Urban District	8770	公顷	（hectare）
市区空气质量达标(AQI＜100)天数	The Number of Days of Air Quality Reaching(AQI＜100) the Standards	271	天	（day）

11－01　市区公共交通情况(2010－2017 年)

Public Transportation in Urban Districts(2010－2017)

指　标	Item	2010	2011	2012	2013	2014	2015	2016	2017
一、轨道交通	**Rail Transit**								
年末运营线路总长度（千米）	Length of Operating Routes (year－end) (km)	－	－	47.97	47.97	66.30	81.50	81.50	117.60
客运总量　（万人次）	Passenger Traffic (10,000 person－times)	－	－	561	9237	14521	22348	26877	33986
二、公共汽车	**Bus**								
年末运营线路条数（条）	Number of Operating Routes (year－end) (unit)	548	611	620	645	703	756	758	937
年末运营线路总长度（千米）	Length of Operating Routes (year－end) (km)	8594	11106	11351	11445	12032	12791	13866	16819
#BRT 线路长度（千米）	BRT line length (km)				122	113	128	151	151
年末运营公共汽车（辆）	Number of Public Transportation Vehicles(year－end) (unit)	7209	7543	7450	8249	8656	8555	8770	9672
#无轨电车　（辆）	Number of Operating Trolleys (unit)	65	54	51	101	115	150	150	150
客运总量　（万人次）	Passenger Traffic (10,000 person－times)	127967	126999	131901	132221	140928	142312	141441	151263
三、出租汽车	**Tax**								
年末实有出租汽车数（辆）	Number of Taxis(year－end) (unit)	9362	10905	10344	10904	11913	11963	12209	13233

11－02　市区城市供电、供水情况(2010－2017年)

Electricity and Water Supply in Urban Districts(2010－2017)

指　标	Item	2010	2011	2012	2013	2014	2015	2016	2017
一、城市供电	**Urban Electricity Supply**								
全年用电总量（亿千瓦时）	Total Electricity Consumption (100 million kwh)	392.64	432.57	444.95	484.05	552.71	559.54	583.96	673.73
#工业（亿千瓦时）	Industrial Electricity Consumption (100 million kwh)	258.35	282.95	278.93	296.08	355.06	345.23	337.04	389.00
生活（亿千瓦时）	Electricity Consumption for Residential Use (100 million kwh)	50.74	55.49	63.62	71.52	72.56	78.27	93.03	105.29
二、城市供水（自来水）	**Urban Water Supply**								
总售水量　（万吨）	Total Annual Volume of Tap Water Saled (10,000 tons)	45666	44335	49549	51709	56401	56478	55566	71076
平均日供水　（万吨）	Per Capita Daily Consumption of Tap Water (10,000 tons)	147	144	159	166	181	183	178	228
供水能力（万吨/日）	Capacity of Water Supply (10,000 tons/day)	320	320	320	350	380	380	384	421
供水总量　（万吨）	Total Annual Volume of Tap Water Supplied (10,000 tons)	53565	52660	58183	60747	66172	66760	65087	83192
#生产用水（万吨）	For Productive Use (10,000 tons)	11479	11884	12478	13005	14792	14902	14161	16157
生活用水（万吨）	For Residential Use (10,000 tons)	30978	22384	22861	23733	26894	26162	25078	33960
用水普及率　（%）	Percentage of Population with Access to Tap Water (%)	100	100	100	100	100	100	100	100

11－03　市区市政建设情况(主要年份)

Public Utilities in Urban Districts(Main Years)

指　标	Item	2010	2011	2012	2013	2014	2015	2016	2017
一、市政建设	**Urban Infrastructure**								
建成区面积(平方公里)	Constructed Area (sq. m)	412.59	432.98	452.62	462.48	495.22	506.09	541.38	591.08
年末实有道路面积(万平方米)	Area of Roads (year－end) (10,000 sq. m)	4754	4900	5284	5426	6145	6540	6932	8291
年末实有道路长度(公里)	Length of Roads(year－end) (km)	2194	2255	2458	2479	2748	2991	3075	3550
年末实有桥梁数(座)	Number of Bridges(year－end) (unit)	1021	1059	1129	1165	1235	1337	1353	1443
排水管道长度(公里)	Length of Drainage Pipelines (km)	3904	4056	4280	4455	5012	5370	5944	8614
城市污水排放量(万立方米)	Volume of Sewage Drained (10,000 cu. m)	43746	44809	47330	48432	53111	56974	57916	69834
城市污水处理总量(万立方米)	the Total Volume of Urban Sewage Treatment (10,000 cu. m)	41733	42781	45197	46251	50318	54137	55061	66516
二、城市液化气	**Urban Liquefied Petroleum Gas**								
供气总量 (万吨)	Total Volume of Liquefied Petroleum Gas Supply (10,000 tons)	11.44	11.19	11.17	11.92	9.87	12.38	13.14	12.86
#家庭用气(万吨)	Supply for Residential Use (10,000 tons)	5.77	5.93	5.90	4.70	5.08	6.08	5.90	6.48
三、人工煤气及天然气	**Coal Gas and Natural Gas**								
家庭用气总量(万立方米)	Total Volume of Coal Gas Consumed (10,000 cu. m)	10053	11365	13397	13869	18019	20659	21878	23614
家庭用气户数(万户)	Residential Households with Access to Gas (10,000 households)	62.85	72.50	81.72	91.08	111.30	130.69	139.03	153.17
四、全社会气化率 %	**Percentage of Population with Access to Gas (%)**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**

11－04　市区园林绿化情况（2010－2017 年）
Urban Forestation（2010－2017）

指　标	Item	2010	2011	2012	2013	2014	2015	2016	2017
建城区绿化覆盖面积（公顷）	The Green Areas Coveraged in Constructed Areas (hectare)	16483	17336	18135	18606	20031	20464	22035	23620
建城区园林绿地面积（公顷）	Total Area of Parks, Gardens and Green Areas in Constructed Areas (hectare)	15118	15898	16647	17071	18386	18949	20118	21726
#公园绿地（公顷）	Public Green Area (hectare)	5017	5287	5635	5820	6304	7640	8118	8770
建城区绿化覆盖率（%）	Rate of the Green Areas Coveraged in Constructed Areas (%)	39.95	40.00	40.07	40.23	40.57	40.43	40.70	39.96
公园景点个数（个）	Number of Parks and Scenic Resorts (unit)	176	181	185	190	207	217	222	245
公园景点面积（公顷）	Area of Parks and Scenic Resorts (hectare)	1906	2047	2065	2094	2298	2488	2754	3074

11－05　环境保护情况(2017 年)

Statistics on Environmental Protection(2017)

指标名称		Item		全　市 Whole City	市　区 Urban District
工业废水排放量	(万吨)	Industrial Wastewater Emissions	(10,000 tons)	24559	23331
工业废水中 COD 排放量	(吨)	COD Emissions in Industrial Wastewater	(tons)	12639	12212
工业废水中氨氮排放量	(吨)	Ammonia emissions in Industrial wastewater	(tons)	507	482
工业二氧化硫产生量	(吨)	Industrial Sulfur Dioxide Produced	(tons)	106895	83069
工业二氧化硫排放量	(吨)	Industrial Emissions of Sulfur Dioxide	(tons)	26497	21136
工业氮氧化物排放量	(吨)	Industrial Nitrogen Oxide Emissions	(tons)	31123	21581
工业烟(粉)产生量	(吨)	Industrial Smoke (Powder) Production	(tons)	11719689	10601667
工业烟(粉)尘排放量	(吨)	Industrial Smoke, Powder and Dust Emissions	(tons)	16343	11579
一般工业固体废物综合利用率	(%)	Comprehensive Utilization Rate of General Industrial Solid Waste	(%)	77.06	77.36
城市污水集中处理率	(%)	Centralized Treatment Rate of Urban Sewage	(%)	95.1	95.25
城市生活垃圾无害化处理率	(%)	Harmless Treatment Rate of City's Living Garbage	(%)	100	100
空气质量优良天数	(天)	Air Quality Days	(days)	–	271
集中式饮用水源地水质达标率	(%)	Compliance Rate of Centralized Sources of Drinking Water	(%)	100	–

注:2016 年起环境统计方法有调整。

a) The environmental statistical method has been adjusted since 2016.

主要统计指标解释

自来水生产能力　指年底城建部门管理的自来水厂实际生产能力。

生活用水量　指居民日常生活与公共福利设施的用水量。包括居民、饮食店、旅馆、医院、理发店、浴池、洗衣店、游泳池、商店、学校、机关、部队等单位的用水量。

供气总量　指全年售给各类用户的全部煤气量。包括工业用量、家庭用量和其他用量。

年末实有道路长度　指除土路外，路面经过铺装宽度在3.5米以上的道路，包括高级、次高级道路和普通道路。

城市桥梁　指城市范围内，修建在河道上的桥梁和道路与道路立交、道路跨越铁路的立交桥，以及人行天桥。包括永久性桥和半永久性桥，不包括临时性桥、铁路桥、涵洞。

营运线路长度　指设置的固定营运线路的长度，包括郊区营运线路长度。不包括临时行驶的线路长度。

用水普及率　指城市用水的非农业人口数（不包括临时人口和流动人口）与城市非农业人口总数之比。计算公式为：

$$\text{用水普及率} = \frac{\text{城市用水非农业人口数}}{\text{城市非农业人口数}} \times 100\%$$

城市园林绿地面积　指城市公共绿地、专用绿地、生产绿地、防护绿地、郊区风景名胜区的全部面积。

公园绿地面积　指供游览休息的各种公园、动物园、植物园、陵园以及花园、游园和供游览休息用的林荫道绿地、广场绿地。不包括一般栽植的行道树及林荫道的面积。

Explanatory Notes on Main Statistical Indicators

Production Capacity of Tap Water refers to the actual comprehensive production capacity of the waterworks administered by the urban construction department.

Consumption of water for Residential Use refers to the water consumption of households for daily life and the water consumption of public welfare facilities, including the consumption of restaurants, hotels, hospitals, barber shops, public bathhouses, laundries, swimming pools, shops, schools, institutions, army units and other units.

Volume of Gas Supply refers to the total volume of gas Sold to users in a year, including the volume for industrial use, residential use and other uses.

Length of Roads at the Year – end refers to the length of roads with a paved surface, and with a width of more than 3 – 5 meters, including high quality, medium quality and ordinary roads.

Urban Bridges refers to bridges over river courses, great separated junctions and overpasses in urban areas. Permanent bridges and semi – permanent bridges are included. Temporary bridges, railway bridges and culverts are excluded.

Length in Operation refers to the length of the roads in fixed operation, including the suburb one, but excluding the tomporary ones.

Percentage of Urban Population with Access to Tap Water refers to the ratio of the urban non – agricultural population (excluding temporary and mobile population) with access to tap water to the tolal urban non – agricultural population. The formula is:

$$\text{Percentage of Poputalion with Access to Tap Water} = \frac{\text{Urban Non – agricultural Population with Access to Tap Water}}{\text{Urban Non – agricultural Population}} \times 100\%$$

Area of Urban Gardens and Green Areas refers to the total area of urban public green land, special green land, production green land, protection green land and suburban scenic spots.

Park Green Area refers to green area of various parks, zoos, botanical gardens, cemeteries, amusement parks, tree – flanked boulevards Greenland squares for tourism and relaxing. Areas with trees planted along – side the streets and boulevards are excluded.