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***Introduction***

he statistics appeared in this chapter have been provided as register records by the Ministry of Energy on two topics of "water" and "electricity".

***1. Water***

This section includes information on "underground waters", "reservoir dams", and "length of networks and number of water and sewage extensions". The related statistics have been added to the Statistical Yearbook of Iran since 1346.

Statistics on underground waters and reservoir dams have been provided by Water Resources Management Company and statistics on the length of networks and number of water and sewage extensions has been obtained from the Water and Sewage Engineering Company.

Central and Internal basin, Hamun basin, and Sarakhs basin were renamed by Water Resources Management Organization as Central Plateau, Eastern Border and Qareh Qum respectively, in 1383.

***2. Electricity***

Data related to electric power industry was first collected in 1343 by the then Ministry of Water and Power (renamed the Ministry of Energy in 1353). Since 1346, the Ministry has regularly provided the annual statistics on the power industry comprising power generation, transmission, distribution, and consumption. The statistics, a part of which appears in some tables of this yearbook, are presented in various annual publications released by the Ministry.

Moreover, through two successive censuses of population and housing in 1365 and 1375, the SCI collected data on residential units and households benefiting from piped water and electricity which are reflected in Chapter 9, “Construction and Housing,” of the yearbook.

***Definitions and concepts***

***Water basin:*** see Chapter 1, Definitions and concepts.

***Aquatic year:*** see Chapter 1, Definitions and concepts.

***Water produced:*** the amount of water gained from various (surface and underground) water resources such as wells, springs, subterranean canals, dams and river basins.

***Dam:*** a structure built against the flow of water to reserve water or change the direction of flow or manage it for satisfying different needs such as drinking, industry, irrigation (agriculture), electricity generation and control of flood.

***Reservoir dam:***  a dam made for reserving, managing or controlling the flow of water to reserve it for procuring water for irrigation, drinking, industry, electricity generation and control of flood

***Large reservoir dam:*** refers to all dams with a height of 15 metres or more as well as 10 to 15 metres high dams having a reservoir with a volume of 1 million cubic metres or more and/or a capacity of flood discharge of 2000 or more cubic metres per second.

***Inflow:*** annual volume of water entered the reservoir of a dam through the river.

***Outflow:*** total annual volume of water discharged from different outlets of a dam (weir, silt ejector channels, take-out gates, drainage channels) and evaporation.

***Water extension:*** refers to the part of branched-off water pipes, containing pipe, related accessories, with a profile appropriate to the water metre and the extension capacity of public water, which connects a private water distribution line or public water distribution network from installation place of the extension valve to the delivery point (valve following the water metre).

***Public water distribution network:***  a collection of interconnected pipe lines with needed pressure for distributing water for household, office and industrial consumption in a region or inside the city , all of which belong to the Water and Sewage Company.

***Sewage extension:*** refers to the part of minor sewage pipelines, including pipes and related accessories, with a profile appropriate to siphon or contractual capacity, which carries joint sewages away from the siphon to the private line or to the public network for collecting sewages.

***Public network for collection and transmission of sewage:*** refers to all installations and equipment, such as main collectors, used for collection and transmission of sewage to water treatment house and pump houses of urban sewage and public side networks, all belonging to the Water and Sewage Company. The network is not responsible for collection, transmission and disposal of rainfall water flowing on passages, flood channels and channels inside and outside cities located in the customers’ estates.

***Nominal capacity (registered nominal power):*** refers to the maximumexpected output of an electricity generator in designing condition defined by the manufacturer. Nominal power is usually installed in KVA or KW for smaller generators on the generator.

***Actual capacity or actual power (registered power):*** refers to the maximum amount of electricity that could be generated by a generator while regarding the environmental conditions (altitude, temperature, and relative moisture).

***Maximum coincidental power generated:*** refers to the sum of electric power generated at the peak of network load during a certain period. The sum of maximum coincidental power generated might be equal or less than the total capacity of the plants.

***Gross production:*** refers to the amount of electricity generated by a generator or a plant during a certain period which is measured on output series of the main or supplementary generators and stated in kilowatt hour (kWh) or megawatt hour (MWh).

***Net generation:*** refers to the electricity measured at the point of transmission to the power grid. During a certain period, the net generation may be calculated by subtracting the gross internal consumption form the gross generation in the same period.

***Other institutions:*** the institutions which generate electricity for their own consumption and also sell a part of their production to other institutions but are independent from the Ministry of Energy; some examples are, Esfahan Steelworks,Mobarakeh Steel Industries, Petrochemical Industries, Tabriz Tractor Industries, and Sarcheshmeh Copper Industries.

***Interconnected network:*** the collection of production sites and regions of energy consumption around the country connected together with a network of transmission lines and high voltage stations. The network lets electricity exchange between the regions covered, and makes the export of electric energy possible.

***Isolated network (generation and power consumption):***  refers to regional, provincial and island networks not connected with adjacent networks or interconnected network.

***Load-demand:*** the power consumed during a certain period in a certain part of the network.

***Maximum coincidental load:*** in a full interconnected electricity system, maximum coincidental load for a day, a week, a month, or a year refers to the sum of load at the peak of consumption in regions in megawatt. Where the interconnected system does not cover the total country, the maximum coincidental load may be calculated by adding up maximum load of interconnected network and load of separate regions in megawatt simultaneously. With regard to the difference between peak hours of consumption in different regions connected to the interconnected network, maximum coincidental load is less than the sum of the maximum loads of the regions.

***Maximum non-coincidental load:***  the sum of the peak of consumption in different regions of the country during a certain period, which are not necessarily simultaneous.

***Power Company:*** the companies (Ltd.) which are by law engaged in generation, transmission and distribution of electricity or in a part of such activities and provide the customers with electricity. The definition covers the water and power organizations as well.

***Power plant:*** refers to the installation place of generators and related equipment.

***Hydroelectric power plant:*** a power plant in which the potential energy of water accumulated at dams or flowing energy of rivers water is used to drive the hydroelectric turbine for electricity generation.

***Thermal power plant:*** a power plant in which chemical energy inherent in solid, liquid, gaseous fuels is transformed into electricity. This definition covers nuclear, steam, gas, combined-cycle and diesel power plants.

***Steam power plant:*** a kind of power plant in which thermal energy produced from liquid, solid and gas fuels is used for steam production and then driving the steam turbine to generate electricity***.***

***Gas power plant:*** a type of power plant in which hot gas produced from the thermal energy in gas and liquid fuels drives gas turbine to generate electricity.

***Combined-cycle power plant:*** a kind of power plant in which, in addition to electric energy in gas turbine, the heat in gases off the gas turbine is used for production of steam using a recycling steam kettle. The steam produced is transformed into electric energy in a steam turbogenerator set.

***Diesel power plant:*** a kind of power plant in which gas or liquid is used in cylinders to transform mechanical energy produced by coupled generator into electric energy.

***Internal consumption:*** refers to the sum of electricity consumed internally by units and for non-technical cases, as well as consumption of lights, etc. in a power plant in a certain period in kilowatt-hour (kWh).

***Losses:*** refers to the energy lost in transmission and distribution lines in a network or a certain system. Energy lost by transformers is considered as losses of transmission and distribution.

***Sale or consumption of electricity:*** the amount of electricity sold to the consumers for various consumptions.

***Energy produced by the fuel (thermal value):*** the amount of heat (kilo calorie or B.T.U.) produced through burning of the mass unit of a certain fuel.

***Thermal output:*** considering that the thermal energy produced by 1 kWh is equal to 860 kcal, the output of thermal power plants (thermal output) is calculated through the following formula:

output(%) = (860/thermal energy consumed for 1 kWh of power generated) × 100

***Line of power:*** the cables installed on poles to transmit the electric power from the production site (power plant) or substation to consumption places in different voltages.

***Power transmission line:***  a line composed of conductors, insulators and other subsidiary equipment used for transmission of high amount of electricity, with high voltages in long distances between source points (power plants and receiving points.

***Subtransmission line:*** a collection oftransmissionlines with voltages from 63 to 132 kV.

***Electricity customers:*** natural or legal persons whose specifications are registered by customers division according to the regulation of the power company after submitting the required documents and payment of the related costs, and are offered a customer number.

***Household uses:*** electricity used by households to operate common electric appliances and for lights in residential units.

***Public uses:*** electricity used for public services.

***Agricultural uses:*** electricity used for pumping surface and underground water or repumping water for production of crops or carrying out agricultural activities. Agricultural activities are defined in ISIC Rev. 3.

***Industrial uses:*** electricity used for doing jobs in establishments engaged in manufacturing and mining activities.

***Selected information***

In aquatic year 1386-87, the amount of annual discharge of the underground water resources was 77544 mln cu m which in comparison to the aquatic year 1385-86 had a 2.1 percent decrease. It should be noted that out of 6 main basins, the central plateau with 47.9% had the maximum annual discharge.

In 1388, the inflow of the large reservoir dams amounted to 35729 mln cu m had a 94.2% decrease in comparison to the last year. The maximum inflow of the dams is that of Khuzestan dams(67.8% of inflow of the large reservoir dams). In this year, about 17067 mln cu m of large reservoir dams have been consumed, 60 percent of which belongs to the agricultural consumptions.

In the same year, about 6660 mln cu m of water is produced in the water and sewage companies of the country (urban and rural) out of which 4719 mln cu m was sold. Sale of water had a 4.8 percent increase compared to the preceding year. This is while production of water had no change.

In 1388, there were over 15690000 water extensions which had a 4.9 percent increase in comparison to the preceding year. Out of this number about 11670000 extensions were for the urban areas which had a 4.1% increase compared to the previous year.

In 1388, the gross electricity generation of institutions affiliated to the Ministry of Energy was 195582 mln kilowatt hours, more than 47 percent of which is produced in the steam power plants. Furthermore, the gross electricity generation amount had a 1.5 percent increase compared to the preceding year.

In this year, about 167527 mln kilowatt hours of generated electricity was consumed by a number of 24191000 subscribers. In this respect, the amount of electricity sold and the number of electricity subscribers increased by 4 and 7 percent respectively compared to the preceding year.

In 1388, percentage of subscribers in the house, public, agricultural and manufacturing sectors was 82.0, 3.9, 0.8 and 0.7 respectively. Also in this year, the percentage of the sold electricity which was consumed in the house and manufacturing, agricultural, public sectors and for the streets lighting was 33.2, 32.2, 12.8, 13 and 2.2 percent respectively.

A number of 52815 villages (about 4.3 mln rural households) were electrified which increased by 2.4% in comparison to the previous year.

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| **8. 1. UNDERGROUND WATER RESOURCES AND THEIR ANNUAL DISCHARGE BY MAIN** **BASINS (mln cu m)** |
| |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Aquatic year and main basins | Total discharge | Deep well | | Semi-deep well | | Subterranean canals (Qanat) | | Spring | | | Number | Annual discharge | Number | Annual discharge | Number | Annual discharge | Number | Annual discharge | | 1374-75 | 60946 | 93646 | 27708 | 254900 | 11441 | 30988 | 9543 | 44476 | 12253 | | 1379-80 | 69549 | 118986 | 30757 | 314405 | 13263 | 33036 | 7962 | 49785 | 17566 | | 1382-83 | 74347 | 130008 | 31403 | 338041 | 13492 | 34355 | 8212 | 55912 | 21240 | | 1383-84 | 77877 | 141820 | 33868 | 373272 | 13666 | 35819 | 7888 | 99695 | 22454 | | 1384-85 | 79837 | 155800 | 35843 | 432943 | 12778 | 36307 | 7527 | 112787 | 23690 | | 1385-86 | 79196 | 164714 | 35785 | 460124 | 13121 | 37197 | 7375 | 124443 | 22914 | | ***1386-1387*** | ***77544*** | ***165883*** | ***36065*** | ***464946*** | ***13540*** | ***36888*** | ***6992*** | ***127604*** | ***20948*** | | Caspian Sea | 8417 | 34052 | 3270 | 173510 | 1498 | 2751 | 297 | 52174 | 3352 | | Persian Gulf and Oman Sea | 25495 | 30059 | 5978 | 82180 | 4684 | 4663 | 1006 | 35855 | 13828 | | Lake Orumiyeh | 2532 | 8296 | 1182 | 65962 | 866 | 1576 | 233 | 5757 | 251 | | Central Plateau | 37130 | 85678 | 22728 | 137816 | 6231 | 23568 | 4946 | 30804 | 3225 | | Eastern Border | 1306 | 1614 | 758 | 2375 | 213 | 2554 | 285 | 1194 | 50 | | Qareh Qum | 2664 | 6184 | 2149 | 3103 | 48 | 1776 | 225 | 1820 | 242 | |
| *Source: Ministry of Energy.* |
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**For data see Table 8.1.**

**8.1. ANNUAL DISCHARGE FROM UNDERGROUND WATER RESOURCES BY MAIN BASINS, 1386-87**

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| **8. 2. UNDERGROUND WATER RESOURCES AND THEIR ANNUAL DISCHARGE BY** **REGIONAL WATER ORGANIZATIONS: AQUATIC YEAR 1386-87 (mln cu m)** |
| |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Regional water organization | Total discharge | Deep well | | Semi-deep well | | Subterranean | | Spring | | | Number | Annual discharge | Number | Annual discharge | Number | Annual discharge | Number | Annual discharge | | ***Total*** | ***78548*** | ***165883*** | ***36064*** | ***464946*** | ***14541*** | ***36888*** | ***6993*** | ***127604*** | ***20950*** | | East Azarbayejan | 1298 | 6411 | 647 | 27815 | 241 | 1891 | 271 | 1960 | 139 | | West Azarbayejan | 2335 | 4799 | 1369 | 43970 | 721 | 488 | 54 | 868 | 191 | | Ardebil | 372 | 1820 | 164 | 4193 | 78 | 173 | 13 | 2270 | 117 | | Esfahan | 5980 | 15103 | 2564 | 31970 | 1543 | 4051 | 846 | 8816 | 1027 | | Ilam | 468 | 1193 | 261 | 580 | 14 | 0 | 0 | 737 | 193 | | Bushehr | 796 | 602 | 77 | 8022 | 597 | 24 | 12 | 130 | 110 | | Tehran | 4130 | 17553 | 2830 | 40871 | 261 | 930 | 357 | 8181 | 682 | | Chaharmahal & Bakhtiyari | 7721 | 2094 | 559 | 1541 | 172 | 770 | 193 | 2222 | 6796 | | South Khorasan | 1102 | 1961 | 745 | 834 | 54 | 4172 | 256 | 1427 | 47 | | Khorasan-e-Razavi | 7661 | 13394 | 6238 | 6216 | 136 | 6236 | 784 | 4810 | 503 | | North Khorasan | 985 | 2161 | 446 | 2518 | 45 | 718 | 108 | 2931 | 386 | | Khuzestan | 1179 | 2429 | 761 | 1237 | 135 | 4 | 2 | 492 | 281 | | Zanjan | 1245 | 2986 | 733 | 12402 | 220 | 801 | 49 | 9227 | 242 | | Semnan | 1087 | 2790 | 797 | 1599 | 31 | 743 | 101 | 1445 | 158 | | Sistan & Baluchestan | 1479 | 1104 | 308 | 7652 | 813 | 1530 | 325 | 791 | 32 | | Fars | 9703 | 23108 | 3646 | 48044 | 3164 | 1504 | 916 | 2766 | 1977 | | Qazvin | 2078 | 4066 | 1613 | 5316 | 24 | 223 | 43 | 17908 | 398 | | Qom | 1067 | 1061 | 706 | 3494 | 130 | 726 | 205 | 882 | 26 | | Kordestan | 1310 | 2156 | 396 | 10335 | 197 | 415 | 41 | 18255 | 676 | | Kerman | 7754 | 11630 | 4293 | 17445 | 2587 | 1927 | 724 | 1170 | 150 | | Kermanshah | 2005 | 2892 | 428 | 5981 | 388 | 313 | 71 | 4277 | 1118 | | Kohgiluyeh & Boyerahmad | 1727 | 573 | 112 | 1112 | 95 | 61 | 12 | 3847 | 1508 | | Golestan | 1335 | 5818 | 603 | 17831 | 472 | 300 | 43 | 6405 | 217 | | Gilan | 812 | 3159 | 229 | 13500 | 164 | 49 | 20 | 5041 | 399 | | Lorestan | 2403 | 3140 | 523 | 2467 | 142 | 1574 | 234 | 6642 | 1504 | | Mazandaran | 2055 | 14837 | 482 | 115891 | 309 | 34 | 1 | 7051 | 1263 | | Markazi | 3025 | 5308 | 1399 | 7415 | 500 | 2961 | 759 | 4063 | 367 | | Hormozgan | 1454 | 1404 | 375 | 18065 | 896 | 145 | 36 | 639 | 147 | | Hamedan | 2490 | 7257 | 1793 | 5428 | 254 | 967 | 185 | 1746 | 258 | | Yazd | 1492 | 3074 | 966 | 1202 | 158 | 3158 | 332 | 605 | 36 | |
| *Source: Ministry of Energy.* |

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| **8.3. STATISTICS ON LARGE RESERVOIR DAMS(1) BY REGIONAL WATER ORGANIZATIONS****(mln cu m)** |
| |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Description | Inflow | Outflow | | | Water consumption | | | | | | Total | From turbines ducts for electricity generation | Other (2) | Total | Agriculture | Drinking | Manu facturing | Other(3) | | 1375(4) | 36901 | 40136 | 26784 | 13352 | 18125 | 15009 | 1462 | 374 | 1280 | | 1380 | 30400 | 27311 | 18386 | 8925 | 11467 | 8819 | 1209 | 382 | 1058 | | 1384 | 59548 | 55858 | 40405 | 15453 | 19045 | 13855 | 1747 | 620 | 2823 | | 1385 | 50873 | 54716 | 44913 | 9803 | 17157 | 13233 | 2276 | 589 | 1059 | | 1386 | 69369 | 71560 | 57168 | 14392 | 17864 | 14027 | 1920 | 298 | 1620 | | 1387 | 18399 | 19227 | 13519 | 5709 | 16192 | 11496 | 2330 | 659 | 1708 | | ***1388*** | ***35729*** | ***27475*** | ***11372*** | ***16103*** | ***17067*** | ***10310*** | ***4127*** | ***657*** | ***1973*** | | ***East Azarbayejan*** |  |  |  |  |  |  |  |  |  | | Aras(5) | 4534 | 4368 | 4228 | 140 | 1858 | 996 | 19 | 3 | 840 | | Nahand | 20 | 16 | 0 | 16 | 15 | 0 | 14 | 0 | 1 | | Alaviyan | 87 | 77 | 0 | 77 | 75 | 60 | 10 | 2 | 3 | | Sattarkhan Ahar | 42 | 47 | 0 | 47 | 43 | 33 | 7 | 2 | 1 | | Aydoghamush | 63 | 69 | 0 | 69 | 27 | 22 | 0 | 0 | 5 | | Sahand | 104 | 110 | 0 | 110 | 17 | 11 | 4 | 0 | 2 | | Taj bar sarab | 4 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | | Arasbaran | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | Ghale chai | 31 | 35 | 0 | 35 | 34 | 33 | 0 | 0 | 1 | | Khoda afarin | 8260 | 8354 | 8354 | 0 | 0 | 0 | 0 | 0 | 0 | | ***West Azarbayejan*** |  |  |  |  |  |  |  |  |  | | Shahid Ghanbari | 46 | 44 | 0 | 44 | 27 | 27 | 0 | 0 | 0 | | Bukan | 1166 | 888 | 0 | 888 | 806 | 582 | 121 | 2 | 101 | | Mahabad | 152 | 138 | 90 | 47 | 126 | 109 | 17 | 0 | 0 | | Hasanlu | 59 | 36 | 0 | 36 | 20 | 17 | 0 | 0 | 3 | | Barun | 102 | 59 | 0 | 59 | 52 | 50 | 0 | 0 | 2 | | Shahrchay | 156 | 105 | 0 | 105 | 105 | 70 | 23 | 0 | 12 | |
| **8. 3. STATISTICS ON LARGE RESERVOIR DAMS(1) BY REGIONAL WATER ORGANIZATIONS (continued) (mln cu m)** |
| |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Description | Inflow | Outflow | | | Water consumption | | | | | | Total | From turbines ducts for electricity generation | Other (2) | Total | Agriculture | Drinking | Manu- facturing | Other(3) | | ***Ardebil*** |  |  |  |  |  |  |  |  |  | | Sabalan | 12 | 15 | 0 | 15 | 15 | 13 | 0 | 0 | 3 | | Gilarlu | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | Qurichay | 2 | 2 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | | Yamchi | 48 | 56 | 0 | 56 | 56 | 29 | 21 | 0 | 5 | | Saqizchi | 2 | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | | Moghadas ardebili | 14 | 2 | 0 | 2 | 3 | 2 | 0 | 0 | 1 | | ***Esfahan*** |  |  |  |  |  |  |  |  |  | | Zayandehrud | 1109 | 997 | 901 | 66 | 918 | 183 | 385 | 100 | 250 | | Golpayegan | 30 | 15 | 0 | 15 | 13 | 12 | 0 | 1 | 0 | | Hana | 10 | 17 | 0 | 17 | 14 | 10 | 0 | 0 | 4 | | Khamiran | 11 | 8 | 0 | 8 | 6 | 6 | 0 | 0 | 0 | | ***Ilam*** |  |  |  |  |  |  |  |  |  | | Ilam | 28 | 14 | 0 | 14 | 10 | 0 | 10 | 0 | 0 | | ***Bushehr*** |  |  |  |  |  |  |  |  |  | | Reis Ali Delvari | 245 | 57 | 0 | 57 | 57 | 55 | 0 | 0 | 2 | | ***Tehran*** |  |  |  |  |  |  |  |  |  | | Lar | 361 | 347 | 161 | 186 | 162 | 0 | 161 | 0 | 1 | | Latiyan | 341 | 329 | 325 | 3 | 326 | 69 | 255 | 0 | 2 | | Karaj | 386 | 299 | 283 | 16 | 292 | 47 | 211 | 0 | 34 | | Taleghan | 404 | 348 | 0 | 348 | 333 | 168 | 165 | 0 | 0 | | Mamlo | 145 | 137 | 137 | 131 | 131 | 0 | 0 | 0 | 0 | |

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| **8.3. STATISTICS ON LARGE RESERVOIR DAMS(1) BY REGIONAL WATER ORGANIZATIONS****(continued) (mln cu m)** |
| |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Description | Inflow | Outflow | | | | Water consumption | | | | | | | | Total | From turbines ducts for electricity generation | Other (2) | | Total | Agriculture | Drinking | | Manu- facturing | Other(3) | | | ***Chaharmahal & Bakhtiyari*** |  |  |  |  | |  |  |  | |  |  | | | Choghakhor | 29 | 22 | 0 | 22 | | 0 | 0 | 0 | | 0 | 0 | | | Naghan | 2 | 1 | 0 | 1 | | 0 | 0 | 0 | | 0 | 0 | | | ***South Khorasan*** |  |  |  |  | |  |  |  | |  |  | | | Haji Abad | 5 | 3 | 0 | 3 | | 3 | 3 | 0 | | 0 | 0 | | | Parsa | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | | | ***North Khorasan*** |  |  |  |  | |  |  |  | |  |  | | | Shirin Darreh | 62 | 46 | 0 | 47 | | 24 | 24 | 0 | | 0 | 0 | | | Barzu | 13 | 10 | 0 | 10 | | 10 | 10 | 0 | | 0 | 0 | | | Chary | 2 | 2 | 0 | 2 | | 1 | 1 | 0 | | 0 | 0 | | | Bidvaz | 19 | 13 | 0 | 13 | | 12 | 12 | 0 | | 0 | 0 | | | ***Khorasan- e- Razavi*** |  |  |  |  | |  |  |  | |  |  | | | Dusti(5) | 1116 | 463 | 0 | 463 | | 410 | 193 | 43 | | 1 | 173 | | | Sedeh Khaf | 14 | 8 | 0 | 8 | | 8 | 8 | 0 | | 0 | 0 | | | Toroq | 9 | 5 | 0 | 5 | | 4 | 0 | 4 | | 0 | 0 | | | Sangerd | 4 | 3 | 0 | 3 | | 3 | 3 | 0 | | 0 | 0 | | | Komayestan | 2 | 1 | 0 | 1 | | 2 | 2 | 0 | | 0 | 0 | | | Yam | 3 | 3 | 0 | | 3 | 3 | 3 | 0 | 0 | | | 0 | | Kardeh | 11 | 6 | 0 | | 6 | 6 | 2 | 4 | 0 | | | 0 | | Shahid Yaqubi | 11 | 7 | 0 | | 7 | 5 | 5 | 0 | 0 | | | 0 | | Tabarak Ghochan | 8 | 8 | 0 | | 8 | 6 | 4 | 2 | 0 | | | 0 | | Shahid Dehghan | 20 | 2 | 0 | | 2 | 2 | 2 | 0 | 0 | | | 0 | | Fariman | 14 | 11 | 0 | | 11 | 11 | 11 | 0 | 0 | | | 0 | | Zavin Kalat | 2 | 1 | 0 | | 1 | 1 | 1 | 0 | 0 | | | 0 | | Dolatabad | 5 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | | | 0 | | Chali Deh Torghabe | 12 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | | | 0 | | Dahan Ghale | 14 | 1 | 0 | | 1 | 1 | 1 | 0 | 0 | | | 0 | | ***Khuzestan*** |  |  |  | |  |  |  |  |  | | |  | | Karkhe | 2061 | 1222 | 382 | | 841 | 1107 | 458 | 645 | 4 | | | 0 | | Dez | 4671 | 3307 | 3307 | | 0 | 2291 | 1867 | 278 | 146 | | | 0 | | Karun1 Shahid Abbaspour (6) | 6187 | 4638 | 4638 | | 0 | 3185 | 1820 | 1118 | 247 | | | 0 | | Karun3 (6) | 5341 | 4932 | 4931 | | 0 | 0 | 0 | 0 | 0 | | | 0 | | Marun | 912 | 404 | 143 | | 261 | 309 | 262 | 42 | 5 | | | 0 | | Masjed-Soleyman (6) (Goder Lander) | 5041 | 5008 | 5008 | | 0 | 1092 | 844 | 167 | 81 | | | 0 | | ***Zanjan*** |  |  |  | |  |  |  |  |  | | |  | | Tahem | 17 | 10 | 0 | | 10 | 7 | 1 | 6 | 0 | | | 0 | | ***Semnan*** |  |  |  | |  |  |  |  |  | | |  | | Damghan | 16 | 14 | 0 | | 14 | 12 | 12 | 0 | 0 | | | 0 | |
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| **8.3. STATISTICS ON LARGE RESERVOIR DAMS(1) BY REGIONAL WATER ORGANIZATIONS** **(mln cu m)** |
| |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Description | Inflow | Outflow | | | Water consumption | | | | | | Total | From turbines ducts for electricity generation | Other (9) | Total | Agriculture | Drinking | From turbines ducts for electricity generation manufacturing | Other(2) | | ***Sistan& Baluchestan(7)*** |  |  |  |  |  |  |  |  |  | | Pishin | 413 | 402 | 0 | 402 | 80 | 79 | 1 | 0 | 0 | | Chahehnimeh (1,2,3) | 1229 | 962 | 0 | 962 | 224 | 174 | 50 | 0 | 0 | | Shai Kelk | 20 | 6 | 0 | 6 | 1 | 0 | 0 | 0 | 1 | | ***Fars*** |  |  |  |  |  |  |  |  |  | | Dorudzan | 271 | 193 | 46 | 147 | 163 | 100 | 39 | 18 | 6 | | Izad Khast | 3 | 4 | 0 | 4 | 3 | 3 | 0 | 0 | 0 | | Molasadra(Tange Baragh) | 105 | 102 | 47 | 55 | 101 | 54 | 0 | 0 | 47 | | Salman Farsi | 119 | 69 | 0 | 69 | 63 | 32 | 28 | 1 | 2 | | Sivand | 16 | 17 | 0 | 17 | 15 | 15 | 0 | 0 | 0 | | ***Qom*** |  |  |  |  |  |  |  |  |  | | Panzdah Khordad | 19 | 40 | 0 | 40 | 35 | 1 | 34 | 0 | 0 | | ***Kordestan*** |  |  |  |  |  |  |  |  |  | | Baneh | 8 | 6 | 0 | 6 | 5 | 0 | 5 | 0 | 0 | | Qeshlaq | 45 | 56 | 0 | 56 | 52 | 5 | 39 | 0 | 8 | | Zarivar | 36 | 16 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | | Sang siyah | 4 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | | ***Kerman*** |  |  |  |  |  |  |  |  |  | | Jiroft | 116 | 52 | 0 | 52 | 39 | 39 | 0 | 0 | 0 | | Sirjan(Tanguiyeh) | 4 | 7 | 0 | 7 | 5 | 3 | 2 | 0 | 0 | | Baft | 4 | 4 | 0 | 4 | 3 | 3 | 0 | 0 | 0 | | ***Kermanshah*** |  |  |  |  |  |  |  |  |  | | Gavshan | 91 | 209 | 0 | 209 | 190 | 184 | 0 | 0 | 6 | | Gilangharb | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | | Soleymanshah | 23 | 11 | 0 | 11 | 8 | 7 | 0 | 0 | 1 | | Shiyan | 5 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | | ***Kohgiluyeh& Boyerahmad*** |  |  |  |  |  |  |  |  |  | | Kosar | 275 | 164 | 0 | 164 | 143 | 18 | 70 | 3 | 52 | | Shah Ghasem | 5 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | |
| **8.3. STATISTICS ON LARGE RESERVOIR DAMS(1) BY REGIONAL WATER ORGANIZATIONS** **(continued) (mln cu m)** |
| |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Description | Inflow | Outflow | | | Water consumption | | | | | | Total | From turbines ducts for electricity generation | Other (2) | Total | Agriculture | Drinking | Manu- facturing | Other(3) | | ***Golestan*** |  |  |  |  |  |  |  |  |  | | Voshmgir(6) | 168 | 135 | 0 | 135 | 69 | 63 | 0 | 0 | 6 | | Golestan(6) | 145 | 108 | 0 | 108 | 29 | 19 | 0 | 0 | 10 | | Alagol | 9 | 14 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | | Vomel | 5 | 2 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | | Golestan 2 (6) | 37 | 19 | 0 | 19 | 2 | 2 | 0 | 0 | 0 | | ***Gilan*** |  |  |  |  |  |  |  |  |  | | Sefidrud(8) | 1341 | 978 | 725 | 252 | 1332 | 975 | 72 | 38 | 247 | | ***Lorestan*** |  |  |  |  |  |  |  |  |  | | Kaznar | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 2 | | Tanghaleh | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | Khanabad | 20 | 22 | 0 | 22 | 20 | 4 | 0 | 0 | 16 | | ***Mazandaran*** |  |  |  |  |  |  |  |  |  | | Shahid Rajaee | 188 | 144 | 0 | 144 | 143 | 118 | 0 | 0 | 25 | | Shiyadeh | 5 | 3 | 0 | 3 | 3 | 3 | 0 | 0 | 0 | | Berenjestanak | 14 | 14 | 0 | 14 | 14 | 3 | 0 | 0 | 11 | | Meijeran | 17 | 17 | 0 | 17 | 17 | 5 | 1 | 0 | 11 | | Salaheddinkola | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | Farimsahra | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 2 | | Sonbol Abad | 4 | 5 | 0 | 5 | 5 | 1 | 0 | 0 | 4 | | Alimalat | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | |

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| **8. 3. STATISTICS ON LARGE RESERVOIR DAMS(1) BY REGIONAL WATER ORGANIZATIONS****(continued) (mln cu m)** |
| |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Description | Inflow | Outflow | | | Water consumption | | | | | | Total | From turbines ducts for electricity generation | Other (9) | Total | Agriculture | Drinking | Manu facturing | Other (2) | | ***Alborz*** |  |  |  |  |  |  |  |  |  | | Markazi | 136 | 86 | 0 | 86 | 85 | 15 | 0 | 0 | 70 | | ***Saveh*** |  |  |  |  |  |  |  |  |  | | Hormozgan |  |  |  |  |  |  |  |  |  | | ***Jegin (9)*** | 72 | 61 | 0 | 61 | 56 | 56 | 0 | 0 | 0 | | Esteqlal | 380 | 251 | 0 | 251 | 16 | 16 | 0 | 0 | 0 | | Hamedan |  |  |  |  |  |  |  |  |  | | ***Ekbatan*** | 439 | 176 | 0 | 176 | 50 | 11 | 36 | 3 | 0 | | Abshineh | 34 | 24 | 0 | 24 | 22 | 5 | 18 | 0 | 0 | | Shirinsu | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | Yazd | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | | ***Darrehbid*** |  |  |  |  |  |  |  |  |  | | Korait | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | | Nahreyn | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | |
| *1. For 95 large reservoir dams ( based on the ICOLD definition) with the capacity of 30982 mln.cu.m, almost equaling to 90% of the total volume* |
| *of all dams under use.* |
| *2. Other outflows include evaporation, weir, dam take-out gates, slit ejection, direct pumping from reservoir, drainage and leaking.* |
| *3. Including environment uses and dams campings, etc.* |
| *4. Data for the year 1375 include statistics on reservoir dams with the capacity of less than one million cubic* |
| *metres.* |
| *5. Outflow of Aras and Dusti dams is equal to the total outflow of the dams. Water consumption includes the country of Iran only.* |
| *6. Karun3, Shahid Abbaspur and masjed-soleyman dams in Khuzestan Ostan and Golestan1&2 and Vusmgir dams in Golestan Ostan are chain dams and their inflow and outflow are affected by each other and the volumes of inflow and outflow of Karun 3, Shahid Abaspur, Golestan 1&2 were not included in Total. Therefore, the total of inflow and outflow of the dams basins is 47597 and 48948 mln cu m..* |
| *7. Evaporation of the dams covered by Sistan and Baluchestan Regional Water Organization includes major part of the outflow volume (equal to 190 mil .cu.m.).* |
| *8. Some of water uses are supplied from Sefidrud dam's middle basin to Tarik diversion dam.* |
| *9. Data from Bahman through Esfand 1385.* |
| *Source: Ministry of Energy.* |
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| **8. 4. CAPACITY OF RESERVOIRS, LENGTH OF THE NETWORK AND NUMBER OF WATER****EXTENSIONS COVERED BY URBAN WATER AND SEWAGE COMPANIES IN URBAN** **AREAS** |
| |  |  |  |  | | --- | --- | --- | --- | | Year and urban water and  sewage company | Capacity of reservoirs  (cu m) | Length of the network with a diametre of 80 mm or more (km) | Extensions  (number) | | 1375 | 6735738 | 66557 | 6445675 | | 1380 | 8402485 | 77955 | 8060281 | | 1384 | 10328673 | 115167 | 9643889 | | 1385 | 10914721 | 119059 | 10115189 | | 1386 | 11176301 | 129720 | 10640807 | | 1387 | 12182784 | 135599 | 11208647 | | ***1388*** | ***12788446*** | ***143716*** | ***11670825*** | | East Azarbayejan | 945500 | 6962 | 705784 | | West Azarbayejan | 326636 | 4370 | 446206 | | Ardebil | 193309 | 2449 | 216275 | | Esfahan | 924515 | 13741 | 1032631 | | Ilam | 122450 | 1622 | 96150 | | Bushehr | 198750 | 2683 | 151239 | | Tehran | 2868177 | 20501 | 1820332 | | Chaharmahal & Bakhtiyari | 124000 | 1621 | 142941 | | South Khorasan | 95140 | 1690 | 102774 | | Khorasan-e-Razavi | 840730 | 9623 | 1068929 | | North Khorasan | 89770 | 1196 | 115722 | | Khuzestan | 806879 | 9655 | 751234 | | Zanjan | 132750 | 1687 | 157197 | | Semnan | 152950 | 2156 | 163142 | | Sistan & Baluchestan | 266635 | 3959 | 229414 | | Fars | 772700 | 10620 | 905099 | | Qazvin | 176070 | 1683 | 197488 | | Qom | 233270 | 1891 | 226692 | | Kordestan | 206825 | 2210 | 201392 | | Kerman | 651542 | 8313 | 447189 | | Kermanshah | 297386 | 2224 | 229099 | | Kohgiluyeh & Boyerahmad | 62900 | 1177 | 81046 | | Golestan | 189000 | 2772 | 195499 | | Gilan | 242370 | 5062 | 328064 | | Lorestan | 231190 | 3234 | 259485 | | Mazandaran | 519611 | 6942 | 463249 | | Markazi | 194100 | 3306 | 235766 | | Hormozgan | 349516 | 2438 | 159251 | | Hamedan | 278175 | 2700 | 243596 | | Yazd | 295600 | 5229 | 297940 | |
| *Source: Water and Sewage Engineering Company.* |
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| **8. 5. WATER SUPPLY, PRODUCTION AND SALE CAPACITIES IN URBAN AREAS COVERED****BY URBAN WATER AND SEWAGE COMPANIES** |
| |  |  |  |  | | --- | --- | --- | --- | | Year and urban water and  sewage company | Supply  (lit/second) | Production  (1000 cu m) | Sale  (1000 cu m) | | 1375 | 157801 | 3694153 | 2737860 | | 1380 | 165328 | 4008252 | 2617518 | | 1384 | 289481 | 4697508 | 3288258 | | 1385 | 214154 | 5094428 | 3464452 | | 1386 | 223573 | 5319282 | 3753334 | | 1387 | 233408 | 5554571 | 3755528 | | ***1388*** | ***249020*** | ***5551910*** | ***3929525*** | | East Azarbayejan | 12457 | 215865 | 173288 | | West Azarbayejan | 6949 | 167504 | 128885 | | Ardebil | 4515 | 62856 | 47377 | | Esfahan | 17939 | 416538 | 310641 | | Ilam | 1602 | 35332 | 25471 | | Bushehr | 1928 | 60126 | 56749 | | Tehran | 72123 | 1575857 | 1155973 | | Chaharmahal & Bakhtiyari | 2146 | 43427 | 32969 | | South Khorasan | 1544 | 32643 | 23781 | | Khorasan-e-Razavi | 17739 | 326684 | 250498 | | North Khorasan | 1202 | 34315 | 26089 | | Khuzestan | 20425 | 573466 | 282786 | | Zanjan | 3380 | 61098 | 43816 | | Semnan | 2491 | 55973 | 42315 | | Sistan & Baluchestan | 3762 | 90712 | 66977 | | Fars | 12110 | 287637 | 207075 | | Qazvin | 3504 | 74069 | 59977 | | Qom | 4150 | 86727 | 68400 | | Kordestan | 3923 | 88752 | 59000 | | Kerman | 5947 | 187049 | 129908 | | Kermanshah | 5310 | 126523 | 89787 | | Kohgiluyeh & Boyerahmad | 1342 | 37393 | 22680 | | Golestan | 3221 | 69101 | 51864 | | Gilan | 4630 | 121489 | 85798 | | Lorestan | 6151 | 120299 | 73499 | | Mazandaran | 11020 | 219641 | 149837 | | Markazi | 4729 | 108865 | 78619 | | Hormozgan | 3135 | 91096 | 50911 | | Hamedan | 4511 | 94237 | 65750 | | Yazd | 5135 | 86636 | 68805 | |
| *Source: Water and Sewage Engineering Company.* |
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| **8. 6. LENGTH OF SEWAGE NETWORK AND THE NUMBER OF EXTENSIONS IN URBAN****AREAS COVERED BY URBAN WATER AND SEWAGE COMPANIES** |
| |  |  |  | | --- | --- | --- | | Year and urban water and  sewage company | Length of the network with a diametre of 200 mm or more (km) | Number of extensions | | 1375 | 9930 | 678906 | | 1380 | 17845 | 1409615 | | 1384 | 28148 | 2346123 | | 1385 | 30443 | 2509298 | | 1386 | 33102 | 2799081 | | 1387 | 36055 | 3216161 | | ***1388*** | ***38430*** | ***3593243*** | | East Azarbayejan | 2350 | 304629 | | West Azarbayejan | 2171 | 217744 | | Ardebil | 772 | 63316 | | Esfahan | 5705 | 480373 | | Ilam | 626 | 35642 | | Bushehr | 528 | 35949 | | Tehran | 3664 | 238879 | | Chaharmahal & Bakhtiyari | 856 | 74316 | | South Khorasan | 2386 | 275164 | | Khorasan-e-Razavi | 245 | 17724 | | North Khorasan | 234 | 26234 | | Khuzestan | 4047 | 368360 | | Zanjan | 271 | 18300 | | Semnan | 237 | 12526 | | Sistan & Baluchestan | 412 | 24046 | | Fars | 2027 | 185930 | | Qazvin | 596 | 66666 | | Qom | 506 | 44192 | | Kordestan | 1275 | 195197 | | Kerman | 270 | 7418 | | Kermanshah | 1768 | 275009 | | Kohgiluyeh & Boyerahmad | 178 | 7776 | | Golestan | 502 | 11736 | | Gilan | 1838 | 197772 | | Lorestan | 1092 | 104668 | | Mazandaran | 580 | 17287 | | Markazi | 1115 | 80439 | | Hormozgan | 647 | 55000 | | Hamedan | 1003 | 129536 | | Yazd | 529 | 21415 | |
| *Source: Water and Sewage Engineering Company.* |
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| **8. 7. WATER SUPPLY, PRODUCTION AND SALE CAPACITIES IN RURAL AREAS COVERED** **BY RURAL WATER AND SEWAGE COMPANIES** |
| |  |  |  |  | | --- | --- | --- | --- | | Year and rural water and  sewage company | Supply  (lit/second) | Production  (1000 cu m) | Sale  (1000 cu m) | | 1384 | 34937 | 918150 | 600800 | | 1385 | 51242 | 1019180 | 652929 | | 1386 | 54505 | 1078016 | 695971 | | 1387 | 55595 | 1104970 | 745751 | | ***1388*** | ***56918*** | ***1107761*** | ***789971*** | | East Azarbayejan | 4180 | 59246 | 41815 | | West Azarbayejan | 2104 | 56892 | 35567 | | Ardebil | 684 | 19600 | 13700 | | Esfahan | 2354 | 55119 | 3865 | | Ilam | 2238 | 13905 | 9177 | | Bushehr | 752 | 25787 | 18141 | | Tehran | 3703 | 64768 | 43810 | | Chaharmahal & Bakhtiyari | 1015 | 21160 | 14600 | | South Khorasan | 570 | 12500 | 8300 | | Khorasan-e-Razavi | 4739 | 86313 | 60238 | | North Khorasan | 650 | 1578 | 1123 | | Khuzestan | 4598 | 75000 | 44300 | | Zanjan | 1412 | 26500 | 16804 | | Semnan | 590 | 12660 | 8580 | | Sistan & Baluchestan | 2133 | 40400 | 23700 | | Fars | 6720 | 109644 | 67170 | | Qazvin | 790 | 21796 | 14930 | | Qom | 360 | 9400 | 6600 | | Kordestan | 138 | 25265 | 15500 | | Kerman | 2188 | 54300 | 34074 | | Kermanshah | 119 | 16000 | 14000 | | Kohgiluyeh & Boyerahmad | 339 | 11948 | 75000 | | Golestan | 2739 | 42232 | 29814 | | Gilan | 175 | 39485 | 27520 | | Lorestan | 133 | 24570 | 18900 | | Mazandaran | 2200 | 67710 | 47894 | | Markazi | 276 | 34300 | 24000 | | Hormozgan | 919 | 31752 | 27000 | | Hamedan | 1100 | 35031 | 25949 | | Yazd | 7000 | 12900 | 17900 | |
| *Source: Water and Sewage Engineering Company.* |
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| **8. 8. CAPACITY OF RESERVOIRS, LENGTH OF THE NETWORK AND NUMBER OF WATER****EXTENSIONS COVERED BY RURAL WATER AND SEWAGE COMPANIES IN RURAL** **AREAS** |
| |  |  |  |  | | --- | --- | --- | --- | | Year and rural water and  sewage company | Capacity of reservoirs (cu m) | Length of the network (km) | Extensions  (number) | | 1384 | 2599347 | 108818 | 3089637 | | 1385 | 2914866 | 116474 | 3285903 | | 1386 | 2812154 | 121063 | 3481793 | | 1387 | 3289733 | 127922 | 3743170 | | ***1388*** | ***3244177*** | ***141406*** | ***4019362*** | | East Azarbayejan | 213546 | 7008 | 217020 | | West Azarbayejan | 158680 | 5672 | 179489 | | Ardebil | 118832 | 2990 | 88035 | | Esfahan | 107818 | 4426 | 185740 | | Ilam | 50260 | 1077 | 36285 | | Bushehr | 39138 | 2997 | 79681 | | Tehran | 176538 | 3754 | 188649 | | Chaharmahal & Bakhtiyari | 82480 | 2410 | 71220 | | South Khorasan | 93510 | 2249 | 84982 | | Khorasan-e-Razavi | 215246 | 9137 | 409044 | | North Khorasan | 66873 | 2290 | 86461 | | Khuzestan | 204820 | 6443 | 137097 | | Zanjan | 79536 | 2897 | 78126 | | Semnan | 31710 | 858 | 48652 | | Sistan & Baluchestan | 90728 | 6010 | 113269 | | Fars | 215366 | 10665 | 332706 | | Qazvin | 65095 | 2397 | 79279 | | Qom | 30280 | 719 | 30048 | | Kordestan | 65383 | 3023 | 96388 | | Kerman | 183310 | 9530 | 195873 | | Kermanshah | 105232 | 3678 | 103013 | | Kohgiluyeh & Boyerahmad | 84965 | 2500 | 41598 | | Golestan | 97524 | 4125 | 160845 | | Gilan | 121411 | 10553 | 176077 | | Lorestan | 53857 | 3713 | 82096 | | Mazandaran | 118853 | 10339 | 265915 | | Markazi | 88154 | 2875 | 113548 | | Hormozgan | 121585 | 10459 | 125979 | | Hamedan | 91102 | 3625 | 125710 | | Yazd | 72345 | 2987 | 86537 | |
| *Source: Water and Sewage Engineering Company.* |
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| **8. 9. NOMINAL CAPACITY AND GROSS ELECTRICITY PRODUCTION OF INSTALLED** **GENERATORS** |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Year | Nominal capacity | | | Gross electricity production | | | | Total | Institutions affiliated to the Ministry of Energy | Other institutions\*\* | Total | Institutions affiliated to the Ministry of Energy | Other institutions\*\* | | 1370 | 18154 | 14848 | 3306 | 64126 | 59710 | 4416 | | 1375 | 27077 | 22420 | 4657 | 90851 | 85825 | 5026 | | 1380 | 34233 | 28043 | 6190 | 129996 | 124275 | 5721 | | 1384 | 41003 | 38196 | 2807 | 178072 | 171157 | 6915 | | 1385 | 45151 | 40909 | 4242 | 192534 | 181538 | 10996 | | 1386 | 47896 | 43894 | 4002 | 203983 | 190030 | 13954 | | 1387 | 52944 | 46003 | 6941 | 214280 | 192701 | 21579 | | ***1388*** | ***56181*** | ***47298*** | ***8883*** | ***221318*** | ***195583*** | ***25735*** | |
| *Source: Ministry of Energy.* |

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| **8. 10. CAPACITY OF INSTALLED GENERATORS AND MAXIMUM COINCIDENTAL POWER** **GENERATED IN PLANTS AFFILIATED TO THE MINISTRY OF ENERGY (1000 kW)** |
| |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Year and type of generator | Nominal capacity | | | Actual capacity | | | Coincidental power generated | | | | Total | Inter-connected network | Isolated networks | Total | Inter- connected network | Isolated networks | Total | Inter- connected network | Isolated networks | | 1370 | 14848 | 12890 | 1958 | 13835 | 12102 | 1733 | 10939 | 9823 | 1116 | | 1375 | 22420 | 19656 | 2764 | 21136 | 18655 | 2481 | 16106 | 14562 | 1544 | | 1380 | 28044 | 27868 | 176 | 25645 | 25494 | 151 | 21853 | 21790 | 63 | | 1384 | 38196 | 38038 | 158 | 34607 | 34494 | 113 | 29982 | 29897 | 85 | | 1385 | 40909 | 40732 | 177 | 37410 | 37286 | 124 | 31650 | 31561 | 89 | | 1386 | 43894 | 43677 | 217 | 40057 | 39903 | 154 | 32685 | 32582 | 103 | | 1387(1) | 46004 | 45787 | 217 | 41953 | 41798 | 155 | 34168 | 34067 | 101 | | ***1388(1)*** | ***47298*** | ***47082*** | ***216*** | ***42254*** | ***42100*** | ***154*** | ***37580*** | ***37472*** | ***108*** | | Hydroelectric | 7703 | 7701 | 2 | 7355 | 7353 | 2 | 3910 | 3910 | 0 | | Steam | 14935 | 14935 | 0 | 14576 | 14576 | 0 | 13505 | 13505 | 0 | | Gas | 10479 | 10295 | 184 | 8447 | 8320 | 127 | 11606 | 11510 | 96 | | Combined cycle | 13664 | 13664 | 0 | 11495 | 11495 | 0 | 8356 | 8356 | 0 | | Diesel | 425 | 395 | 30 | 289 | 264 | 25 | 146 | 134 | 12 | | Wind | 92 | 92 | 0 | 92 | 92 | 0 | 57 | 57 | 0 | | Private sector(1) | 3907 | 3907 | 0 | 3126 | 3126 | 0 | 732 | 732 | 0 | |
| *1. Total does not include private sector.* |
| *Source: Ministry of Energy.* |
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| **8. 11. CAPACITY OF INSTALLED GENERATORS AND MAXIMUM COINCIDENTAL**  **ELECTRICITY PRODUCTION OF POWER PLANTS AFFILIATED TO THE MINISTRY** **OF ENERGY BY REGIONAL POWER COMPANIES, 1388** |
| |  |  |  |  | | --- | --- | --- | --- | | Description | Nominal capacity(1000 kW) | Actual capacity Actual capacity (1000 kW) | Gross production (mln kW h) | | ***Total*** | ***56182*** | ***49517*** | ***221313*** | | Kish Water and Power Company (1) | 198 | 138 | 473 | | Azarbayejan Regional Power Company | 3274 | 2829 | 14212 | | Esfahan Regional Power Company | 2555 | 2506 | 17653 | | Bakhtar Regional Power Company | 2360 | 2303 | 14270 | | Tehran Regional Power Company | 8998 | 7681 | 37539 | | Khorasan Regional Power Company | 4235 | 3646 | 17053 | | Khuzestan Regional Power Company | 2397 | 2257 | 11951 | | Zanjan Regional Power Company | 0 | 0 | 0 | | Semnan Regional Power Company | 25 | 14 | 26 | | Sistan & Baluchestan Regional Power Company | 1163 | 942 | 3549 | | Gharb Regional Power Company | 1291 | 1160 | 7346 | | Fars Regional Power Company | 3860 | 3114 | 19064 | | Kerman Regional Power Company | 1972 | 1578 | 7744 | | Gilan Regional Power Company | 1727 | 1604 | 9377 | | Mazandaran Regional Power Company | 2215 | 2142 | 13268 | | Hormozgan Regional Power Company | 2372 | 2227 | 11783 | | Yazd Regional Power Company | 953 | 760 | 3063 | | Hydroelectric plants | 7703 | 7355 | 7207 | | Wind-electric plants | 3907 | 3126 | 7550 | | Private sector | 4977 | 4135 | 18185 | |
| *1. The Company is under the supervision of Kish Development Organization.* |
| *Source: Ministry of Energy.* |
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| **8. 12. ELECTRICITY PRODUCTION AND INTERNAL CONSUMPTION OF THE POWER PLANTS AFFILIATED TO THE MINISTRY OF ENERGY (mln kWh)** |
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| |  |  |  |  | | --- | --- | --- | --- | | Year and type of generator | Gross production | Internal consumption of plants | Net production | | 1370 | 59710 | 2968 | 56742 | | 1375 | 85825 | 4568 | 81257 | | 1380 | 124275 | 5942 | 118333 | | 1384 | 171157 | 7155 | 164002 | | 1385 | 181538 | 7063 | 174475 | | 1386 | 190030 | 7222 | 182808 | | 1387(1) | 192701 | 7636 | 185065 | | ***1388*** | ***195582*** | ***7559*** | ***188023*** | | Hydroelectric | 7207 | 58 | 7149 | | Steam | 92252 | 6252 | 86000 | | Combined cycle | 64142 | 1028 | 63114 | | Gas | 31629 | 213 | 31416 | | Diesel | 124 | 8 | 116 | | Wind | 228 | 0 | 228 | | Private sector | 18185 | 592 | 17593 | |
| *1. Total does not include private sector.* |
| *Source: Ministry of Energy.* |
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| **8. 13. GROSS ELECTRICITY PRODUCTION OF HYDROELECTRIC POWER PLANTS BY REGIONAL WATER ORGANIZATION AND TYPE OF DAM (1000 kW hours)** |
| |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Year and regional water organization | Total | | Concrete arch | | Earth | | other | | | Number | Production | Number | Production | Number | Production | Number | Production | | 1370 | 10 | 7055818 | 6 | 6884146 | 4 | 171672 | - | - | | 1375 | 11 | 7375938 | 6 | 7069895 | 5 | 306043 | - | - | | 1380 | 13 | 5056652 | 8 | 4902159 | 5 | 154493 | - | - | | 1384 | 28 | 14366564 | 10 | 8816435 | 18 | 5550129 | - | - | | 1385(1) | 29 | 18168964 | 13 | 12634896 | 18 | 5550129 | 12 | 182164 | | 1386 | 41 | 17986929 | 12 | 12278204 | 5 | 5532105 | 24 | 176620 | | 1387 | 41 | 4753159 | 22 | 2801923 | 8 | 1853232 | 11 | 98004 | | ***1388*** | ***43*** | ***7206717*** | ***24*** | ***5032335*** | ***8*** | ***2081634*** | ***11*** | ***92748*** | | East Azarbayejan Regional Water Organization | 1 | 96049 | 0 | 0 | 1 | 96049 | 0 | 0 | | West Azarbayejan Regional Water Organization | 1 | 7806 | 0 | 0 | 1 | 7806 | 0 | 0 | | Esfahan Regional Water Organization | 3 | 198252 | 1 | 133204 | 0 | 0 | 2 | 65048 | | Tehran Regional Water Organization | 5 | 285827 | 3 | 150300 | 2 | 135527 | 0 | 0 | | Khuzestan Regional Water Organization | 6 | 6380057 | 3 | 4540446 | 3 | 1839611 | 0 | 0 | | Fars Regional Water Organization | 3 | 31298 | 1 | 6194 | 1 | 2641 | 1 | 22463 | | Kerman Regional Water Organization | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | | Gilan Regional Water Organization | 4 | 113480 | 1 | 113480 | 0 | 0 | 3 | 0 | | Mazandaran Regional Water Organization | 5 | 2350 | 3 | 2350 | 0 | 0 | 2 | 0 | | Ardebil Regional Water Organization | 2 | 66145 | 2 | 66145 | 0 | 0 | 0 | 0 | | Lorstan Regional Water Organization | 2 | 3270 | 1 | 283 | 0 | 0 | 1 | 2987 | | Kohgiluyeh & Boyerahmad Regional Water Organization | 6 | 15937 | 6 | 15937 | 0 | 0 | 0 | 0 | | Markazi Regional Water Organization | 2 | 2250 | 1 | 0 | 0 | 0 | 1 | 2250 | | Hamedan Regional Water Organization | 1 | 3996 | 1 | 3996 | 0 | 0 | 0 | 0 | | Chaharmahal & Bakhtiyari Regional Water Organization | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | Khorasan-e-Razavi  Regional Water Organization | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | |
| *Source: Ministry of Energy.* |
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| **8. 14. GROSS ELECTRICITY PRODUCTION, FUEL CONSUMPTION, ENERGY GENERATION AND OUTPUT OF THERMAL POWER PLANTS AFFILIATED TO THE MINISTRY OF ENERGY, LARGE SCALE INDUSTRIES AND PRIVATE SECTOR** |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | Year | Gross electricity production (mln kW hours) | Fuel consumed | | | Energy generated from fuel consumption (bln kcal) | Thermal energy consumed to generate one kWh of electricity (kcal) | Output  (percent) | | Gas oil  (mln lit.) | Fuel oil  (mln lit.) | Natural gas  (mln cu m) | | 1370 | 52654 | 965 | 5144 | 9099 | 144964 | 2753 | 31.2 | | 1375 | 78449 | 1014 | 7446 | 13443 | 205737 | 2623 | 32.8 | | 1380 | 119218 | 1618 | 6799 | 24012 | 295114 | 2414 | 35.6 | | 1384 | 163284 | 2649 | 6329 | 32832 | 390111 | 2385 | 35.8 | | 1385 | 161267 | 4362 | 7587 | 32168 | 393246 | 2403 | 35.8 | | 1386 | 171900 | 4083 | 8435 | 33264 | 407871 | 2373 | 36.2 | | 1387 | 187752 | 3427 | 8911 | 37865 | 441936 | 2355 | 36.5 | | ***1388*** | ***188147*** | ***3802*** | ***9541*** | ***36501*** | ***439203*** | ***2386*** | ***36.0*** | | Power plants affiliated to the Ministry of Energy | 162415 | 2670 | 9541 | 29598 | 368164 | 2334 | 36.8 | | Large Industried | 7550 | 2 | 0 | 2483 | 22813 | 3022 | 28.5 | | Private sector | 18185 | 1130 | 0 | 4420 | 48226 | 2652 | 32.4 | |
| *Source: Ministry of Energy.* |

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| **8. 15. PRODUCTION, INTERNAL CONSUMPTION OF POWER PLANTS, PURCHASE, LOSSES AND SALES OF ELECTRIC POWER OF INSTITUTIONS AFFILIATED TO THE MINISTRY OF ENERGY (mln k wh)** |
| |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Description | 1370 | 1375 | 1380 | 1384 | 1385 | 1386 | 1387 | 1388 | | Gross production | 59710 | 85825 | 124275 | 173270 | (1)181538 | 190030 | 192701 | 195583 | | Less: Internal consumption of plants | 2968 | 4568 | 5942 | 7499 | (1)7064 | 7223 | 7636 | 7559 | | Net production | 56742 | 81257 | 118333 | 165772 | (1)174474 | 182807 | 185065 | 188024 | | Plus: Electricity purchased from large-scale industries(1,2) | 0 | 2135 | 5721 | 7120 | (1)10997 | 13953 | 21579 | 19784 | | Less: Distribution and transmission networks losses | 7985 | 11202 | 20857 | 30989 | (1)35566 | 38190 | 37754 | 34129 | | Net sales | 48757 | 70055 | 97476 | 134783 | 144862 | 153534 | 163249 | 173679 | | Net exports | 0 | 384 | 305 | 675 | (1)264 | 678 | 2191 | 6152 | | Domestic sales | 48757 | 69671 | 97171 | 134238 | 144598 | 152856 | 161058 | 167527 | |
| *1. Purchased electricity has been returned altogether.*  *2. Other institutions include large industries and establishments with 10 and more workers.*  *Source: Ministry of Energy.* |
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| **8. 16. MAXIMUM COINCIDENTAL AND NON-COINCIDENTAL LOADS OF REGIONAL POWER COMPANIES (1000 kW)** |
| |  |  |  | | --- | --- | --- | | Year and regional power company | Maximum coincidental load | Maximum non-coincidental load | | 1370 | 9799 | ×× | | 1375 | (1)15616 | ×× | | 1380 | (1)23220 | ×× | | 1384 | (1)30731 | ×× | | 1385 | (1)33453 | ×× | | 1386 | 34582 | ×× | | 1387 | 34049 | ×× | | ***1388*** | ***37050*** | ***××*** | | Kish Water and Power Company | 96 | ×× | | Azarbayejan Regional Power Company | 2128 | ×× | | Esfahan Regional Power Company | 2601 | ×× | | Bakhtar Regional Power Company | 2077 | ×× | | Tehran Regional Power Company | 6779 | ×× | | Khorasan Regional Power Company | 2569 | ×× | | Khuzestan Regional Power Company | 5471 | ×× | | Zanjan Regional Power Company | 972 | ×× | | Semnan Regional Power Company | 349 | ×× | | Sistan & Baluchestan Regional Power Company | 882 | ×× | | Gharb Regional Power Company | 1280 | ×× | | Fars Regional Power Company | 3244 | ×× | | Kerman Regional Power Company | 1323 | ×× | | Gilan Regional Power Company | 818 | ×× | | Mazandaran Regional Power Company | 1643 | ×× | | Hormozgan Regional Power Company | 1588 | ×× | | Yazd Regional Power Company | 581 | ×× | | Large Industries | 2649 | ×× | |
| *1. Maximum non-coincidental load is included in regional power companies and is not separable* |
| *Source: Ministry of Energy.* |
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| **8. 17. LENGTH OF DIFFERENT TYPES OF ELECTRIC POWER TRANSMISSION LINES** **(km circuits)** |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | Year | Transmission line | | Subtransmission line | | | 400 kV | 230 kV | 132 kV | 63 and 66 kV | | 1370 | 4770 | 9574 | 8315 | 17568 | | 1375 | 6730 | 14115 | 10647 | 23336 | | 1380 | 9924 | 20731 | 13857 | 29400 | | 1384 | 12138 | 24931 | 17047 | 36720 | | 1385 | 12404 | 25634 | 18582 | 37974 | | 1386 | 14191 | 26455 | 19185 | 39232 | | 1387 | 14973 | 27247 | 20100 | 40776 | | ***1388*** | ***17438*** | ***28478*** | ***20703*** | ***42341*** | |
| *Source: Ministry of Energy.* |
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| **8. 18. NUMBER OF CUSTOMERS AND DOMESTIC SALES OF ELECTRICITY BY** **INSTITUTIONS AFFILIATED TO THE MINISTRY OF ENERGY** |
| |  |  |  | | --- | --- | --- | | Year | Customers | Domestic sales of electricity (mln k wh) | | 1370 | 10090135 | 49175 | | 1375 | 12854735 | 69671 | | 1380 | 16345450 | 97171 | | 1384 | 19649310 | 132898 | | 1385 | 20559946 | 144597 | | 1386 | 21734244 | 152853 | | 1387 | 22609603 | 161058 | | ***1388*** | ***24191259*** | ***167527*** | |
| *Source: Ministry of Energy*. |
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| **8. 19. NUMBER OF DIFFERENT TYPES OF CUSTOMERS BY REGIONAL POWER COMPANIES AND OSTAN (customers)** |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Description | Total | Household | Public | Agricultural | Industrial | Other | | 1375 | 12854735 | 10440912 | 290156 | 37747 | 55036 | 1578877 | | 1380 | 16345450 | 13682563 | 523505 | 77556 | 91468 | 1970358 | | 1384 | 19649310 | 16398318 | 677112 | 126502 | 133229 | 2314149 | | 1385 | 20559946 | 16989284 | 748964 | 138137 | 152202 | 2531359 | | 1386 | 21734244 | 17921413 | 796283 | 151789 | 166976 | 2697783 | | 1387 | 22609603 | 18606151 | 849504 | 173644 | (1)165475 | 2814829 | | ***1388*** | ***24191259*** | ***19844427*** | ***952043*** | ***201912*** | ***161380*** | ***3031497*** | | Azarbayejan Regional Power Company | 2429007 | 1990912 | 66956 | 23953 | 15591 | 331595 | | East Azarbayejan | 1224183 | 985035 | 37480 | 11039 | 10073 | 180556 | | West Azarbayejan | 837465 | 696581 | 19818 | 10918 | 3663 | 106485 | | Ardebil | 367359 | 309296 | 9658 | 1996 | 1855 | 44554 | | Esfahan Regional Power Company | 2039420 | 1657494 | 58570 | 28530 | 24443 | 270383 | | Esfahan | 1800404 | 1453653 | 51418 | 25676 | 22357 | 247300 | | Chaharmahal & Bakhtiyari | 239016 | 203841 | 7152 | 2854 | 2086 | 23083 | | Bakhtar Regional Power Company | 1464300 | 1247193 | 44020 | 17615 | 9342 | 146130 | | Markazi | 504635 | 431427 | 16004 | 5884 | 4162 | 47158 | | Hamedan | 524345 | 438058 | 17246 | 7745 | 3104 | 58192 | | Lorestan | 435320 | 377708 | 10770 | 3986 | 2076 | 40780 | | Tehran Regional Power Company | 6193313 | 4881781 | 383178 | 4677 | 41036 | 882641 | | Tehran | 5811550 | 4570925 | 375522 | 3691 | 35688 | 825724 | | Qom | 381763 | 310856 | 7656 | 986 | 5348 | 56917 | | Khorasan Regional Power Company | 2350013 | 1971464 | 74261 | 14807 | 14358 | 275123 | | South Khorasan | 219005 | 186881 | 8739 | 1743 | 1791 | 19851 | | Khorasan-e-Razavi | 1898253 | 1583973 | 59175 | 11439 | 11769 | 231897 | | North Khorasan | 232755 | 200610 | 6347 | 1625 | 798 | 23375 | |
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| **8. 19. NUMBER OF DIFFERENT TYPES OF CUSTOMERS BY REGIONAL POWER** **COMPANIES AND OSTAN (continued) (customers)** | **8.19. NUMBER OF DIFFERENT TYPES OF CUSTOMERS BY REGIONAL POWER COMPANIES** **AND OSTAN (continued) (customer)** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Description | Total | Household | Public | Agricultural | Industrial | Other | | Khuzestan Regional Power Company | 1206176 | 1020840 | 35085 | 5238 | 4131 | 140882 | | Khuzestan | 1054674 | 890318 | 29627 | 3814 | 3256 | 127659 | | Kohgiluyeh & Boyerahmad | 151502 | 130522 | 5458 | 1424 | 875 | 13223 | | Zanjan Regional Power Company | 683545 | 569254 | 28806 | 7977 | 5721 | 71787 | | Zanjan | 292147 | 244196 | 9486 | 4457 | 2313 | 31695 | | Qazvin | 391398 | 325058 | 19320 | 3520 | 3408 | 40092 | | Semnan Regional Power Company | 248854 | 197686 | 11235 | 3237 | 3329 | 33367 | | Semnan | 248854 | 197686 | 11235 | 3237 | 3329 | 33367 | | Sistan & Baluchestan Regional Power Company | 495437 | 420989 | 15961 | 5773 | 1542 | 51172 | | Gharb Regional Power Company | 1087511 | 931046 | 27823 | 11138 | 4024 | 113480 | | Kermanshah | 522328 | 444458 | 13952 | 4233 | 1773 | 57912 | | Kordestan | 415992 | 360064 | 8396 | 5310 | 1505 | 40717 | | Ilam | 149191 | 126524 | 5475 | 1595 | 746 | 14851 | | Fars Regional Power Company | 1612796 | 1345517 | 42858 | 28630 | 11592 | 184199 | | Fars | 1333694 | 1114085 | 35098 | 26722 | 10276 | 147513 | | Bushehr | 279102 | 231432 | 7760 | 1908 | 1316 | 36686 | | Kerman Regional Power Company | 770623 | 662852 | 20728 | 8805 | 2614 | 75624 | | Kerman | 770623 | 662852 | 20728 | 8805 | 2614 | 75624 | | Kish Regional Power Company | 23301 | 16070 | 2550 | 0 | 726 | 3955 | | Gilan Regional Power Company | 970261 | 772978 | 40142 | 7173 | 5539 | 144429 | | Mazandaran Regional Power Company | 970261 | 772978 | 40142 | 7173 | 5539 | 144429 | | Golestan | 1743528 | 1440764 | 70442 | 23615 | 10347 | 198360 | | Mazandaran | 471233 | 393507 | 19166 | 4675 | 1819 | 52066 | | Hormozgan Regional Power Company | 1272295 | 1047257 | 51276 | 18940 | 8528 | 146294 | | Hormozgan | 417858 | 344321 | 17190 | 4730 | 1068 | 50549 | | Yazd Regional Power Company | 417858 | 344321 | 17190 | 4730 | 1068 | 50549 | | Yazd | 455316 | 373266 | 12238 | 6014 | 5977 | 57821 | |
| *1- Changing industrial tariff into agricultural tariff in 1387 is the reason for reduction in customers number in industrial tariff compared with 1386.* |
| *Source: Ministry of Energy.* |

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| **8. 20. NUMBER OF VILLAGES AND RURAL HOUSEHOLDS ELECTRIFIED BY REGIONAL** **AND OSTANS' POWER COMPANIES** |
| |  |  |  | | --- | --- | --- | | Description | Villages | Households | | 1370 | 25130 | 2696776 | | 1375 | 35074 | 3318832 | | 1380 | 45359 | 4056072 | | 1384 | 50194 | 4410278 | | 1385 | 50985 | 4427849 | | 1386 | 51140 | 4203031 | | 1387 | 51595 | 4213022 | | ***1388*** | ***52815*** | ***4283236*** | | Azarbayejan Regional Power Company | 7107 | 575015 | | East Azarbayejan | 2713 | 295517 | | West Azarbayejan | 2863 | 209687 | | Ardebil | 1531 | 69811 | | Esfahan Regional Power Company | 2420 | 381406 | | Esfahan | 1711 | 296409 | | Chaharmahal & Bakhtiyari | 709 | 84997 | | Bakhtar Regional Power Company | 4690 | 387747 | | Markazi | 1173 | 124161 | | Hamedan | 1119 | 164920 | | Lorestan | 2398 | 98666 | | Tehran Regional Power Company | 1004 | 192571 | | Tehran | 815 | 174337 | | Qom | 189 | 18234 | | Khorasan Regional Power Company | 5306 | 541464 | | South Khorasan | 1299 | 122896 | | Khorasan-e-Razavi | 3142 | 325492 | | North Khorasan | 865 | 93076 | |
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| **8. 20. NUMBER OF VILLAGES AND RURAL HOUSEHOLDS ELECTRIFIED BY REGIONAL** **AND OSTANS' POWER COMPANIES (continued)** |
| |  |  |  | | --- | --- | --- | | Description | Villages | Households | | Khuzestan Regional Power Company | 4983 | 273176 | | Khuzestan | 3470 | 219956 | | Kohgiluyeh & Boyerahmad | 1513 | 53220 | | Zanjan Regional Power Company | 1739 | 163732 | | Zanjan | 915 | 91374 | | Qazvin | 824 | 72358 | | Semnan Regional Power Company | 487 | 35797 | | Semnan | 487 | 35797 | | Sistan & Baluchestan Regional Power Company | 3609 | 37185 | | Sistan & Baluchestan | 3609 | 37185 | | Gharb Regional Power Company | 4793 | 297844 | | Kermanshah | 2447 | 126471 | | Kordestan | 1761 | 127222 | | Ilam | 585 | 44151 | | Fars Regional Power Company | 3378 | 318688 | | Fars | 2892 | 279069 | | Bushehr | 486 | 39619 | | Kerman Regional Power Company | 4162 | 251567 | | Kerman | 4162 | 251567 | | Gilan Regional Power Company | 2918 | 284485 | | Gilan | 2918 | 284485 | | Mazandaran Regional Power Company | 3779 | 363956 | | Golestan | 861 | 104004 | | Mazandaran | 2918 | 259952 | | Hormozgan Regional Power Company | 1572 | 124332 | | Hormozgan | 1572 | 124332 | | Yazd Regional Power Company | 868 | 54271 | | Yazd | 868 | 54271 | |

*Source: Ministry of Energy.*

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| **8. 21. DOMESTIC SALES OF ELECTRICITY BY REGIONAL POWER COMPANIES BY** **TYPE OF USE AND OSTANS (mln kW hours)** |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | Description | Total | Household | Public | Agricultural | Industrial | Streets lighting | Other | | 1375 | 69671 | 23993 | 6595 | 5731 | 22925 | 2055 | 7621 | | 1380 | 96811 | 32891 | 11951 | 11079 | 30379 | 4117 | 6394 | | 1384 | 132897 | 44108 | 16350 | 16469 | 43123 | 4305 | 8542 | | 1385 | 144598 | 48085 | 18329 | 17666 | 46590 | 4608 | 9320 | | 1386 | 152853 | 51059 | 19710 | 17745 | 49837 | 4508 | 9994 | | 1387 | 161058 | 52896 | 20437 | 21185 | 51705 | 4091 | 10744 | | ***1388*** | ***167527*** | ***55629*** | ***21825*** | ***21413*** | ***53971*** | ***3675*** | ***11014*** | | Azarbayejan Regional Power Company | 10164 | 3899 | 1458 | 973 | 2773 | 303 | 758 | | East Azarbayejan | 5484 | 1918 | 778 | 456 | 1770 | 143 | 419 | | West Azarbayejan | 3404 | 1444 | 505 | 416 | 685 | 115 | 239 | | Ardebil | 1276 | 537 | 175 | 101 | 318 | 45 | 100 | | Esfahan Regional Power Company | 18482 | 3707 | 1265 | 2601 | 9825 | 303 | 781 | | Esfahan | 17162 | 3321 | 1099 | 2273 | 9486 | 251 | 732 | | Chaharmahal & Bakhtiyari | 1320 | 386 | 166 | 328 | 339 | 52 | 49 | | Bakhtar Regional Power Company | 12054 | 2478 | 897 | 1986 | 5995 | 363 | 335 | | Markazi | 6834 | 841 | 333 | 876 | 4501 | 145 | 138 | | Hamedan | 2883 | 879 | 348 | 851 | 574 | 131 | 100 | | Lorestan | 2337 | 758 | 216 | 259 | 920 | 87 | 97 | | Tehran Regional Power Company | 32146 | 11885 | 5949 | 1050 | 8313 | 613 | 4336 | | Tehran | 30054 | 11142 | 5702 | 725 | 7744 | 561 | 4180 | | Qom | 2092 | 743 | 247 | 325 | 569 | 52 | 156 | | Khorasan Regional Power Company | 14176 | 3831 | 1496 | 4469 | 3263 | 359 | 758 | | South Khorasan | 1145 | 280 | 150 | 415 | 210 | 48 | 42 | | Khorasan-e-Razavi | 11818 | 3212 | 1227 | 3823 | 2596 | 288 | 672 | | North Khorasan | 1213 | 339 | 119 | 231 | 457 | 23 | 44 | |

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| **8. 21. DOMESTIC SALES OF ELECTRICITY BY REGIONAL POWER COMPANIES BY** **TYPE OF USE AND OSTANS (continued) (mln kW hours)** |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | Description | Total | Household | Public | Agricultural | Industrial | Streets lighting | Other | | Khuzestan Regional Power Company | 20080 | 8215 | 2651 | 742 | 7450 | 257 | 765 | | Khuzestan | 19101 | 7805 | 2534 | 695 | 7111 | 234 | 722 | | Kohgiluyeh & Boyerahmad | 979 | 410 | 117 | 47 | 339 | 23 | 43 | | Zanjan Regional Power Company | 5607 | 1055 | 522 | 1021 | 2699 | 124 | 186 | | Zanjan | 2198 | 439 | 178 | 328 | 1123 | 54 | 76 | | Qazvin | 3409 | 616 | 344 | 693 | 1576 | 70 | 110 | | Semnan Regional Power Company | 2364 | 395 | 208 | 522 | 1106 | 47 | 86 | | Semnan | 2364 | 395 | 208 | 522 | 1106 | 47 | 86 | | Sistan & Baluchestan Regional Power Company | 3284 | 1505 | 815 | 310 | 283 | 160 | 211 | | Gharb Regional Power Company | 5067 | 2143 | 888 | 656 | 978 | 153 | 249 | | Kermanshah | 2429 | 995 | 452 | 273 | 500 | 86 | 123 | | Kordestan | 1665 | 789 | 240 | 241 | 264 | 42 | 89 | | Ilam | 973 | 359 | 196 | 142 | 214 | 25 | 37 | | Fars Regional Power Company | 13618 | 5437 | 1747 | 3125 | 2277 | 269 | 763 | | Fars | 9800 | 3020 | 1166 | 3037 | 1802 | 224 | 551 | | Bushehr | 3818 | 2417 | 581 | 88 | 475 | 45 | 212 | | Kerman Regional Power Company | 6794 | 1768 | 1424 | 2336 | 822 | 130 | 314 | | Kerman | 6794 | 1768 | 1424 | 2336 | 822 | 130 | 314 | | Kish Regional power Company | 497 | 149 | 123 |  | 117 | 29 | 79 | | Gilan Regional Power Company | 3617 | 1656 | 485 | 125 | 852 | 180 | 319 | | Gilan | 3617 | 1656 | 485 | 125 | 852 | 180 | 319 | | Mazandaran Regional Power Company | 7296 | 3248 | 846 | 545 | 1839 | 243 | 575 | | Golestan | 1986 | 974 | 255 | 249 | 305 | 65 | 138 | | Mazandaran | 5310 | 2274 | 591 | 296 | 1534 | 178 | 437 | | Hormozgan Regional Power Company | 7834 | 3465 | 794 | 324 | 2834 | 62 | 355 | | Hormozgan | 7834 | 3465 | 794 | 324 | 2834 | 62 | 355 | | Yazd Regional Power Company | 4447 | 793 | 257 | 628 | 2545 | 80 | 144 | | Yazd | 4447 | 793 | 257 | 628 | 2545 | 80 | 144 | |
| *Source: Ministry of Energy.* |