

## Sales, Customers, Rural & Distribution

### Networks Situation

| Description                           | March 2018    | Sep. 2018     | unit                      |
|---------------------------------------|---------------|---------------|---------------------------|
| <b>Total Monthly Sales</b>            | <b>255026</b> | <b>137300</b> |                           |
| Residential                           | 83402         | 47094         | GWh                       |
| Public                                | 24328         | 13753         |                           |
| Agricultural                          | 39379         | 22194         |                           |
| Industrial                            | 84218         | 42053         |                           |
| Other Consumption (Commercial)        | 18681         | 10136         |                           |
| Street Lighting                       | 5017          | 2070          |                           |
| <b>Total Customers</b>                | <b>34836</b>  | <b>35390</b>  |                           |
| Residential                           | 28101         | 28478         | 10 <sup>3</sup> Customers |
| Public                                | 1611          | 1662          |                           |
| Agricultural                          | 422           | 435           |                           |
| Industrial                            | 236           | 241           |                           |
| Other Consumption (Commercial)        | 4465          | 4574          |                           |
| <b>Distribution Network</b>           | <b>Mar-18</b> | <b>Sep-18</b> | <b>unit</b>               |
| Length of Medium-Voltage Lines        | 425           | 429           | 10 <sup>3</sup> Km        |
| Length of Low-Voltage Lines           | 362           | 365           |                           |
| Number of Transformers                | 687           | 698           | 10 <sup>3</sup> Units     |
| Capacity of Transformers              | 119361        | 120908        | MVA                       |
| <b>Electrified Villages</b>           | <b>Mar-18</b> | <b>Oct-18</b> | <b>unit</b>               |
| Total Number of Electrified Villages  | 57030         | 57095         | Villages                  |
| Total Electrified Villages Households | 4496820       | 4497578       | H.h.                      |
| Length of Rural Medium-Voltage Lines  | 145436        | 145543        | Km                        |
| Length of Rural Low-Voltage Lines     | 100091        | 100133        |                           |
| Number of Rural Transformers          | 77002         | 77099         | Units                     |
| Capacity of Rural Transformers        | 7698          | 7701          | MVA                       |

### Electricity Industry at a Glance, March 2018



| Description                   | Measure | unit |
|-------------------------------|---------|------|
| Installed Capacity per Capita | 959     | W    |
| Generation per Capita         | 3820    | KWh  |
| Consumption per Capita        | 3117    |      |
| Ave.Con. Of each Household    | 2968    |      |

### Various Consumption Sectors (%)

| Description                    | March 2018 | Sep. 2018 |
|--------------------------------|------------|-----------|
| Residential                    | 32.7       | 34.3      |
| Public                         | 9.5        | 10.0      |
| Agricultural                   | 15.4       | 16.2      |
| Industrial                     | 33.0       | 30.6      |
| Other Consumption (Commercial) | 7.3        | 7.4       |
| Street Lighting                | 2.0        | 1.5       |

### Power Industry Personnel, March 2018

| Description (Degree) | Person       | %          |
|----------------------|--------------|------------|
| School Education     | 3185         | 6.8        |
| High School Diploma  | 7349         | 15.8       |
| Associate Degree     | 7549         | 16.2       |
| B.A. / B.S. Degree   | 21454        | 46.1       |
| M.S. & Ph.D.         | 7037         | 15.1       |
| <b>Total</b>         | <b>46756</b> | <b>100</b> |

Islamic Republic of Iran  
Ministry of Energy


Tavanir Company

## Statistical Summary of Iran Electricity Industry

Deputy of Research & Human Resources

Information , communication Technology & Statistics Bureau

02 Nov. 2018



<http://amar.tavanir.org.ir>

**Nominal & Operational Capacity, Generation & Consumption Until 02 Nov. 2018**

| Description  |                            | Measure      | unit          |
|--|----------------------------|--------------|---------------|
| Nominal Capacity of the Power plants                     | Thermal                    | 64773        | MW            |
|  | Nuclear                    | 1020         |               |
|  | Hydro                      | 11938        |               |
|  | Renewable                  | 645          |               |
|  | DG & CHP                   | 1293         |               |
| <b>Total</b>   |                            | <b>79669</b> |               |
| *Increase of Nominal Capacity                            | Steam                      |              |               |
|  | Gas                        | 383          |               |
|  | Combined Cycle             | 320          |               |
|  | Diesel                     |              |               |
|  | Renewable                  | 92           |               |
|  | Hydro                      | 70           |               |
|  | DG & CHP                   | 144          |               |
| <b>Total</b>   |                            | <b>1009</b>  |               |
| *Actual Capacity at Peak Load Time (11/07/2018 at 16:38) | Thermal                    | 49142        | GWH           |
|  | Hydro & Renewable          | 11466        |               |
| <b>Total</b>   |                            | <b>60608</b> |               |
| *Available Gen. at Peak Load Time (11/07/2018 at 16:38)  | Thermal                    | 44884        |               |
|  | Hydro & Renewable          | 3775         |               |
| <b>Total</b>   |                            | <b>48659</b> |               |
| *Imported Power at Peak Load Time                        |                            | 214          |               |
| *Supplied Demand at Peak Load Time                       |                            | 48873        |               |
| *Max. Managed Consumption in 2018                        | Day(11/07/2018 at 16:38)   | <b>57098</b> |               |
|  | Night(10/07/2018 at 21:37) | 55175        |               |
| *Gross Generation  | Thermal                    | 206358       |               |
|  | Hydro & Renewable          | 7401         |               |
|  | <b>Total</b>               |              | <b>213759</b> |
| *Imported Energy   | Change ( %) =-24           | 2041         |               |
| *Exported Energy   | Change ( %) =-33           | 3762         |               |

\* 21 March.2018 - 02 Nov.2018

Reference : Iran Grid Management Co. ( IGMC )

**Fuel Consumption, 21 March.2018- 02 Nov.2018**

| Description  | Change ( %) | Measure      | unit                           |
|--------------|-------------|--------------|--------------------------------|
| Natural Gas  | 6.5         | 50861        | 10 <sup>6</sup> m <sup>3</sup> |
| Diesel       | -22.0       | 1155         | 10 <sup>6</sup>                |
| Fuel Oil     | -27.8       | 1234         | Liter                          |
| <b>Total</b> | <b>4.48</b> | <b>53250</b> |                                |

**Synchronized & Forcasted Power Plants Units In(2018-2019)\*\***

| Date of Synchronization                                | Name           | Type           | Unit No. | Nominal Capacity |
|--|----------------|----------------|----------|------------------|
| <b>Synchronized Power Plants Units</b>                 |                |                |          |                  |
| 2018   | Renewable      | Renewable      |          | 92               |
| 2018   | DG & CHP       | DG & CHP       |          | 144              |
| 16/04/2018   | Jahrom         | Combined Cycle | 1        | 160              |
| 22/07/2018   | Caspian        | Gas            | 1        | 307              |
| 31/07/2018   | Dariyan        | Hydro          | 3        | 70               |
| 06/08/2018   | Parand         | Combined Cycle | 2        | 160              |
| 07/10/2018   | Golbarg(Makoo) | Gas            | 1,2      | 76               |
| <b>Total Synchronized Power Plants Units</b>           |                |                |          | <b>1009</b>      |
| <b>Forecasted Power Plants Units</b>                   |                |                |          |                  |
|  | Shirvan        | Combined Cycle | 1        | 160              |
|  | Dalahoo        | Gas            | 1        | 307              |
|  | Jahrom         | Combined Cycle | 2        | 160              |
|  | Sabalan        | Combined Cycle | 1        | 160              |
|  | Kashan         | Combined Cycle | 1        | 160              |
|  | Sardasht       | Hydro          | 1,2,3    | 150              |
|  | Zahedan        | Gas            | 1        | 42               |
|  | Renewable      | Renewable      |          | 308              |
|  | DG & CHP       | DG & CHP       |          | 56               |
|  | Asalooye       | Combined Cycle | 1        | 160              |
|  | Hormoz         | Gas            | 1        | 160              |
|  | Gharbe Karoon  | Gas            | 1        | 162              |
|  | Iran LNG       | Gas            | 1,2,3    | 480              |
| <b>Total Forecasted Power Plants Units</b>             |                |                |          | <b>2465</b>      |
| <b>Synchronized &amp; Forcasted Power Plants Units</b> |                |                |          | <b>3474</b>      |

**Transmission & Sub\_Transmission Lines & Substations**

| Description              | March. 2018   | Increase      | Oct. 2018     | Unit          |
|--------------------------|---------------|---------------|---------------|---------------|
| Length of Lines          | 400 Kv        | 20617         | 363           | 20980         |
|                          | 230 Kv        | 31589         | 557           | 32146         |
|                          | <b>Total</b>  | <b>52206</b>  | <b>920</b>    | <b>53126</b>  |
|                          | 132 Kv        | 23504         | 253           | 23757         |
|                          | 63&66 Kv      | 48295         | 437           | 48732         |
|                          | <b>Total</b>  | <b>71799</b>  | <b>690</b>    | <b>72489</b>  |
| Capacity of Substations  | 400 Kv        | 64093         | 1760          | 65853         |
|                          | 230 Kv        | 82045         | 1661          | 83706         |
|                          | <b>Total</b>  | <b>146138</b> | <b>3421</b>   | <b>149559</b> |
|                          | 132 Kv        | 32251         | 558           | 32809         |
|                          | 63&66 Kv      | 72794         | 1248          | 74042         |
|                          | <b>Total</b>  | <b>105045</b> | <b>1806</b>   | <b>106851</b> |
| Power Plant Substations  | 89027         | 873           | 89900         |               |
| <b>Total Substations</b> | <b>340210</b> | <b>6100</b>   | <b>346310</b> |               |

**Lines & Substations Projects With More Than 85% Progress**

| Description             | Sep. 2018                 | Unit        |
|-------------------------|---------------------------|-------------|
| Length of Lines         | 400 Kv                    | 409         |
|                         | 230 Kv                    | 374         |
|                         | <b>Transmission Total</b> | <b>783</b>  |
|                         | 132 Kv                    | 680         |
|                         | 63&66 Kv                  | 1861        |
|                         | <b>Distribution Total</b> | <b>2541</b> |
| <b>Total</b>            |                           | <b>3324</b> |
| Capacity of Substations | 400 Kv                    | 2545        |
|                         | 230 Kv                    | 3480        |
|                         | <b>Transmission Total</b> | <b>6025</b> |
|                         | 132 Kv                    | 635         |
|                         | 63&66 Kv                  | 2685        |
|                         | <b>Distribution Total</b> | <b>3320</b> |
| <b>Total</b>            |                           | <b>9345</b> |

Reference : Regional Electric Companies