

## Sales, Customers, Rural & Distribution

### Networks Situation

| Description                           | March 2018    | July 2018     | unit                      |
|---------------------------------------|---------------|---------------|---------------------------|
| <b>Total Monthly Sales</b>            | <b>255586</b> | <b>84327</b>  |                           |
| Residential                           | 83402         | 26035         | GWh                       |
| Public                                | 24387         | 8627          |                           |
| Agricultural                          | 39379         | 13380         |                           |
| Industrial                            | 84658         | 28855         |                           |
| Other Consumption (Commercial)        | 18736         | 6076          |                           |
| Street Lighting                       | 5022          | 1353          |                           |
| <b>Total Customers</b>                | <b>34846</b>  | <b>35191</b>  |                           |
| Residential                           | 28106         | 28338         | 10 <sup>3</sup> Customers |
| Public                                | 1613          | 1645          |                           |
| Agricultural                          | 422           | 431           |                           |
| Industrial                            | 236           | 239           |                           |
| Other Consumption (Commercial)        | 4468          | 4538          |                           |
| <b>Distribution Network</b>           | <b>Mar-18</b> | <b>Aug-18</b> | <b>unit</b>               |
| Length of Medium-Voltage Lines        | 425           | 428           | 10 <sup>3</sup> Km        |
| Length of Low-Voltage Lines           | 362           | 364           |                           |
| Number of Transformers                | 687           | 696           | 10 <sup>3</sup> Units     |
| Capacity of Transformers              | 118830        | 120300        | MVA                       |
| <b>Electrified Villages</b>           | <b>Mar-18</b> | <b>Jul-18</b> | <b>unit</b>               |
| Total Number of Electrified Villages  | 57030         | 57083         | Villages                  |
| Total Electrified Villages Households | 4496820       | 4497457       | H.h.                      |
| Length of Rural Medium-Voltage Lines  | 145436        | 145531        | Km                        |
| Length of Rural Low-Voltage Lines     | 100091        | 100127        |                           |
| Number of Rural Transformers          | 77002         | 77086         | 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        | 3126    |      |
| Ave.Con. Of each Household    | 2968    |      |

### Various Consumption Sectors (%)

| Description                    | March 2018 | July 2018 |
|--------------------------------|------------|-----------|
| Residential                    | 32.6       | 30.9      |
| Public                         | 9.5        | 10.2      |
| Agricultural                   | 15.4       | 15.9      |
| Industrial                     | 33.1       | 34.2      |
| Other Consumption (Commercial) | 7.3        | 7.2       |
| Street Lighting                | 2.0        | 1.6       |

### 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

28 Sep. 2018



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

**Nominal & Operational Capacity, Generation & Consumption Until 28 Sep. 2018**

| Description  |                            | Measure      | unit          |
|--|----------------------------|--------------|---------------|
| Nominal Capacity of the Power plants                     | Thermal                    | 64697        | MW            |
|  | Nuclear                    | 1020         |               |
|  | Hydro                      | 11951        |               |
|  | Renewable                  | 364          |               |
|  | DG & CHP                   | 1293         |               |
| <b>Total</b>   |                            | <b>79325</b> |               |
| *Increase of Nominal Capacity                            | Steam                      |              |               |
|  | Gas                        | 307          |               |
|  | Combined Cycle             | 320          |               |
|  | Diesel                     |              |               |
|  | Renewable                  |              |               |
|  | Hydro                      | 70           |               |
|  | DG & CHP                   | 144          |               |
| <b>Total</b>   |                            | <b>841</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                    | 179575       |               |
|  | Hydro & Renewable          | 6397         |               |
|  | <b>Total</b>               |              | <b>185972</b> |
| *Imported Energy   | Change ( %) =-30           | 1710         |               |
| *Exported Energy   | Change ( %) =-41           | 3166         |               |

\* 21 March.2018 - 28 Sep.2018

Reference : Iran Grid Management Co. ( IGMC )

**Fuel Consumption, 21 March.2018- 28Sep.2018**

| Description  | Change ( % ) | Measure      | unit                           |
|--------------|--------------|--------------|--------------------------------|
| Natural Gas  | 7.0          | 44311        | 10 <sup>6</sup> m <sup>3</sup> |
| Diesel       | -22.8        | 1084         | 10 <sup>6</sup>                |
| Fuel Oil     | -31.7        | 1088         | Liter                          |
| <b>Total</b> | <b>4.63</b>  | <b>46483</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   | DG & CHP  | DG & CHP       |          | 144              |
| 16/04/2018   | Jahrom    | Combined Cycle | 1        | 160              |
| 22/07/2018   | Kaspian   | Gas            | 1        | 307              |
| 31/07/2018   | Dariyan   | Hydro          | 3        | 70               |
| 06/08/2018   | Parand    | Combined Cycle | 2        | 160              |
| <b>Total Synchronized Power Plants Units</b>           |           |                |          | <b>841</b>       |
| <b>Forecasted Power Plants Units</b>                   |           |                |          |                  |
|  | Shirvan   | Combined Cycle | 1,2      | 320              |
|  | Kaspian   | Combined Cycle | 1        | 140              |
|  | Dalahoo   | Gas            | 1        | 304              |
|  | Goharan   | Combined Cycle | 1        | 160              |
|  | Makoo     | Gas            | 1,2,3    | 110              |
|  | Parand    | Combined Cycle | 3        | 160              |
|  | Jahrom    | Combined Cycle | 2        | 160              |
|  | Sabalan   | Combined Cycle | 1        | 160              |
|  | Kashan    | Combined Cycle | 1        | 160              |
|  | Sardasht  | Hydro          | 1,2,3    | 150              |
|  | Zahedan   | Gas            | 1,2,3,4  | 174              |
|  | Renewable | Renewable      |          | 960              |
|  | DG & CHP  | DG & CHP       |          | 56               |
| <b>Total Forecasted Power Plants Units</b>             |           |                |          | <b>3014</b>      |
| <b>Synchronized &amp; Forcasted Power Plants Units</b> |           |                |          | <b>3855</b>      |

\*\*21 March.2018 - 20 March.2019

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

| Description              |              | March. 2018   | Increase    | Sep. 2018     | Unit       |
|--------------------------|--------------|---------------|-------------|---------------|------------|
| Length of Lines          | 400 Kv       | 20617         | 363         | 20980         | Km-Circuit |
|                          | 230 Kv       | 31589         | 534         | 32123         |            |
|                          | <b>Total</b> | <b>52206</b>  | <b>897</b>  | <b>53103</b>  |            |
|                          | 132 Kv       | 23504         | 61          | 23565         |            |
|                          | 63&66 Kv     | 48295         | 429         | 48724         |            |
|                          | <b>Total</b> | <b>71799</b>  | <b>490</b>  | <b>72289</b>  |            |
| <b>Total</b>             |              | <b>124005</b> | <b>1387</b> | <b>125392</b> |            |
| Capacity of Substations  | 400 Kv       | 64093         | 1760        | 65853         | MVA        |
|                          | 230 Kv       | 82045         | 1231        | 83276         |            |
|                          | <b>Total</b> | <b>146138</b> | <b>2991</b> | <b>149129</b> |            |
|                          | 132 Kv       | 32251         | 448         | 32699         |            |
|                          | 63&66 Kv     | 72794         | 1073        | 73867         |            |
|                          | <b>Total</b> | <b>105045</b> | <b>1521</b> | <b>106566</b> |            |
| <b>Total</b>             |              | <b>251183</b> | <b>4512</b> | <b>255695</b> |            |
| Power Plant Substations  |              | 89027         | 873         | 89900         |            |
| <b>Total Substations</b> |              | <b>340210</b> | <b>5385</b> | <b>345595</b> |            |

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

| Description             |                           | March. 2018 | Unit       |
|-------------------------|---------------------------|-------------|------------|
| Length of Lines         | 400 Kv                    | 634         | Km-Circuit |
|                         | 230 Kv                    | 1025        |            |
|                         | <b>Transmission Total</b> | <b>1659</b> |            |
|                         | 132 Kv                    | 595         |            |
|                         | 63&66 Kv                  | 1412        |            |
|                         | <b>Distribution Total</b> | <b>2007</b> |            |
| <b>Total</b>            |                           | <b>3666</b> |            |
| Capacity of Substations | 400 Kv                    | 3175        | MVA        |
|                         | 230 Kv                    | 3090        |            |
|                         | <b>Transmission Total</b> | <b>6265</b> |            |
|                         | 132 Kv                    | 540         |            |
|                         | 63&66 Kv                  | 2225        |            |
|                         | <b>Distribution Total</b> | <b>2765</b> |            |
| <b>Total</b>            |                           | <b>9030</b> |            |

Reference : Regional Electric Companies