

## Sales, Customers, Rural & Distribution

### Networks Situation

Description	March 2017	March 2018	unit	
<b>Total Monthly Sales</b>	<b>237436</b>	<b>255724</b>		
Residential	78378	84682	GWh	
Public	22914	24340		
Agricultural	36222	39437		
Industrial	77603	83781		
Other Consumption (Commercial)	17620	18871		
Street Lighting	4699	4612		
<b>Total Customers</b>	<b>33824</b>	<b>34833</b>		
Residential	27354	28105		10 <sup>3</sup> Customers
Public	1543	1608		
Agricultural	400	422		
Industrial	225	236		
Other Consumption (Commercial)	4301	4463		
<b>Distribution Network(March.2018)</b>				
Length of Medium-Voltage Lines	416	424	10 <sup>3</sup> Km	
Length of Low-Voltage Lines	353	363		
Number of Transformers	658	686	10 <sup>3</sup> Units	
Capacity of Transformers	114945	118901	MVA	
<b>Electrified Villages(March.2018)</b>				
Total Number of Electrified Villages	56793	57065	Villages	
Total Electrified Villages Households	4492752	4497427	H.h.	
Length of Rural Medium-Voltage Lines	145049	145557	Km	
Length of Rural Low-Voltage Lines	99958	100131		
Number of Rural Transformers	76735	77060	Units	
Capacity of Rural Transformers	7687	7700	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	3013	

### Various Consumption Sectors (%)

Description	March 2017	March 2018
Residential	33.0	33.1
Public	9.7	9.5
Agricultural	15.3	15.4
Industrial	32.7	32.8
Other Consumption (Commercial)	7.4	7.4
Street Lighting	2.0	1.8

### 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 Technology , communication & Statistical  
Bureau

06 April. 2018



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

**Nominal & Operational Capacity, Generation & Consumption Until 06 April. 2018**

Description		Measure	unit
Nominal Capacity of the Power plants	Thermal	64070	MW
	Nuclear	1020	
	Hydro	11881	
	Renewable	364	
	DG & CHP	1149	
<b>Total</b>	<b>78484</b>		
Increase of Nominal Capacity	Steam		
	Gas	558	
	Combined Cycle	800	
	Diesel		
	Renewable	100	
	Hydro	365	
	DG & CHP	233	
<b>Total</b>	<b>2056</b>		
Actual Capacity at Peak Load Time (30/07/2017 at 14:45)	Thermal	48992	GWH
	Hydro	11322	
<b>Total</b>	<b>60314</b>		
Available Gen. at Peak Load Time (30/07/2017 at 14:45)	Thermal	44774	
	Hydro	9068	
<b>Total</b>	<b>53842</b>		
Imported Power at Peak Load Time		607	
Supplied Demand at Peak Load Time		54449	
Max. Managed Consumption in 2017	Day(30/07/2017 at 14:45)	<b>55442</b>	
	Night(29/07/2017 at 21:46)	<b>53192</b>	
*Gross Generation	Thermal	13375	
	Hydro	477	
	<b>Total</b>	<b>13852</b>	
*Imported Energy	Change ( %) =-8	198	
*Exported Energy	Change ( %) =26	354	

\*From 21/3/2018

Reference : Iran Grid Management Co. ( IGMC )

**Fuel Consumption, 21 March.2017- 06 April.2018**

Description	Change ( % )	Measure	unit
Natural Gas	19.9	2743	10 <sup>6</sup> m <sup>3</sup>
Diesel	160.0	26	10 <sup>6</sup>
Fuel Oil	-44.1	19	Liter
<b>Total</b>	<b>19.61</b>	<b>2788</b>	

**Synchronized & Forcasted Power Plants Units In (2017-2018)**

Date of Synchronization	Name	Type	Unit No.	Nominal Capacity
<b>Synchronized Power Plants Units</b>				
2017	DG & CHP	DG & CHP		233
2017	Renewable			100
28/03/2017	Parnian	Gas		25
12/05/2017	Roudbar Lorestan	Hydro	2	225
22/05/2017	Emamdeh(Tajan)	Gas	1	25
22/05/2017	Pasargade Gheshm	Gas	1	30
30/05/2017	Noshahr	Gas	3	25
02/06/2017	Pasargade Gheshm	Gas	2	20
25/06/2017	Shamse Sarakhs	Gas	3	25
25/06/2017	Amirabad	Gas	1,2,3	34
31/07/2017	Pasargade Gheshm	Gas	3	20
31/07/2017	Dorood	Gas	1	30
31/08/2017	Daarian	Hydro	1	70
28/09/2017	Shirvan	Combined Cycle	1	160
21/09/2017	Shirino	Gas	3	162
21/10/2017	Samangan	Combined Cycle	1	160
31/10/2017	Taban(Sadough)	Combined Cycle	1	160
31/10/2017	Shirino	Gas	4	162
13/11/2017	Parand	Combined Cycle	1	160
22/11/2017	Shohadaye pirouz	Combined Cycle	1	160
28/02/2018	Daarian	Hydro	2	70
<b>Synchronized &amp; Forcasted Power Plants Units</b>				<b>2056</b>

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

Description		March. 2017	Increase	March. 2018	Unit
Length of Lines	400 Kv	20477	316	20793	Km-Circuit
	230 Kv	31324	760	32084	
	<b>Total</b>	<b>51801</b>	<b>1076</b>	<b>52877</b>	
	132 Kv	23413	340	23753	
	63&66 Kv	48063	303	48366	
<b>Total</b>	<b>71476</b>	<b>643</b>	<b>72119</b>		
<b>Total</b>	<b>123277</b>	<b>1719</b>	<b>124996</b>		
Capacity of Substations	400 Kv	62183	1780	63963	MVA
	230 Kv	80470	1955	82425	
	<b>Total</b>	<b>142653</b>	<b>3735</b>	<b>146388</b>	
	132 Kv	30865	1651	31650	
	63&66 Kv	69456	3541	71899	
	<b>Total</b>	<b>100321</b>	<b>5192</b>	<b>103549</b>	
<b>Total</b>	<b>242974</b>	<b>8927</b>	<b>249937</b>		
Power Plant Substations	86889	1655	88544		
<b>Total Substations</b>	<b>329863</b>	<b>10582</b>	<b>338481</b>		

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

Description		Jan. 2018	Unit
Length of Lines	400 Kv	597	Km-Circuit
	230 Kv	732	
	<b>Transmission Total</b>	<b>1329</b>	
	132 Kv	377	
	63&66 Kv	928	
<b>Distribution Total</b>	<b>1305</b>		
<b>Total</b>	<b>2634</b>		
Capacity of Substations	400 Kv	2545	MVA
	230 Kv	2495	
	<b>Transmission Total</b>	<b>5040</b>	
	132 Kv	430	
	63&66 Kv	1940	
<b>Distribution Total</b>	<b>2370</b>		
<b>Total</b>	<b>7410</b>		

Reference : Regional Electric Companies