

## Sales, Customers, Rural & Distribution Networks Situation

Description	March 2017	Nov 2017	unit
<b>Total Monthly Sales</b>	<b>237436</b>	<b>181614</b>	
Residential	78378	63432	GWh
Public	22914	17344	
Agricultural	36222	29231	
Industrial	77603	55203	
Other Consumption (Commercial)	17620	13418	
Street Lighting	4699	2986	
<b>Total Customers</b>	<b>33824</b>	<b>34470</b>	
Residential	27354	27813	10 <sup>3</sup> Customers
Public	1543	1598	
Agricultural	400	417	
Industrial	225	232	
Other Consumption (Commercial)	4301	4410	
<b>Distribution Network(Nov2017)</b>			
Length of Medium-Voltage Lines	416	420	10 <sup>3</sup> Km
Length of Low-Voltage Lines	353	358	
Number of Transformers	658	673	10 <sup>3</sup> Units
Capacity of Transformers	114945	116663	MVA
<b>Electrified Villages(Dec2017)</b>			
Total Number of Electrified Villages	56793	56833	Villages
Total Electrified Villages households	4492752	4493152	H.h.
Length of Rural Medium-Voltage Lines	145049	145089	Km
Length of Rural Low-Voltage Lines	99958	99965	
Number of Rural Transformers	76735	76755	Units
Capacity of Rural Transformers	7687	7688	MVA

## Electricity Industry at a Glance, 20 March 2017



Description	Measure	unit
Installed Capacity per Capita,	945	W
Generation per Capita,	3578	KWh
Consumption per Capita,	2937	
Ave.Con. Of each House Hold	2865	

## Various Consumption Sectors (%)

Description	March 2017	Nov 2017
Residential	33.0	34.9
Public	9.7	9.5
Agricultural	15.3	16.1
Industrial	32.7	30.4
Other Consumption (Commercial)	7.4	7.4
Street Lighting	2.0	1.6

## Power Industry Personnel, 20 March 2017

Description (Degree)	Person	%
School Education	3463	7.4
High School Diploma	7696	16.5
Associate Degree	8051	17.3
B.A. / B.S. Degree	21289	45.7
M.S. & Ph.D.	6081	13.1
<b>Total</b>	<b>46748</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 & communications & Statistical Bureau

**19 Jan. 2018**



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

**Nominal & Operational Capacity, Generation & Consumption Until 19 Jan. 2018**

Description		Measure	unit
Nominal Capacity of the Power plants	Thermal	64070	MW
	Nuclear	1020	
	Hydro	11811	
	Renewable	322	
	DG & CHP	1120	
<b>Total</b>	<b>78343</b>		
*Increase of Nominal Capacity	Steam		
	Gas	558	
	Combined Cycle	800	
	Diesel		
	Renewable	58	
	Hydro	295	
	DG & CHP	204	
<b>Total</b>	<b>1915</b>		
Actual Capacity at Peak Load Time (30/07/2017 at 14:45)	Thermal	48992	
	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	252878	GWH
	Hydro	14029	
	<b>Total</b>	<b>266907</b>	
*Imported Energy	Change ( %) =-9	3371	
*Exported Energy	Change ( %) =12	6980	

\*From 3/21/2017

Reference : Iran Grid Management Co. ( IGMC )

**Fuel Consumption, 21 March 2017-19 Jan Dec. 2018**

Description	Change ( %)	Measure	unit
Natural Gas	10.4	57745	10 <sup>6</sup> m <sup>3</sup>
Diesel	-13.3	3330	10 <sup>6</sup>
Fuel Oil	-3.9	2901	Liter
<b>Total</b>	<b>8.14</b>	<b>63976</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		204
2017	Renewable			58
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
<b>Total Synchronized Power Plants Units</b>				<b>1915</b>
<b>Forecasted Power Plants Units</b>				
	West mazandaran	Gas	1	307
	Makou	Gas	1,2	74
	Daarian	Hydro	2,3	140
	Sardasht	Hydro	1	50
	Renewable	Renewable		632
	DG & CHP	DG & CHP		46
<b>Total Forecasted Power Plants Units</b>				<b>1249</b>
<b>Synchronized &amp; Forcasted Power Plants Units</b>				<b>3164</b>

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

Description		March. 2017	Increase	Nov. 2017	Unit
Length of Lines	400 Kv	20477	175	20652	Km-Circuit
	230 Kv	31324	719	32043	
	<b>Total</b>	<b>51801</b>	<b>894</b>	<b>52695</b>	
	132 Kv	23413	323	23736	
	63&66 Kv	48063	268	48331	
	<b>Total</b>	<b>71476</b>	<b>591</b>	<b>72067</b>	
Capacity of Substations	400 Kv	62183	1300	63483	MVA
	230 Kv	80470	1015	81485	
	<b>Total</b>	<b>142653</b>	<b>2315</b>	<b>144968</b>	
	132 Kv	30865	735	31600	
	63&66 Kv	69456	2145	71601	
	<b>Total</b>	<b>100321</b>	<b>2880</b>	<b>103201</b>	
Power Plant Substations		86889	1655	88544	
<b>Total Substations</b>		<b>329863</b>	<b>6850</b>	<b>336713</b>	

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

Description		Sep. 2017	Unit
Length of Lines	400 Kv	622	Km-Circuit
	230 Kv	1067	
	<b>Transmission Total</b>	<b>1689</b>	
	132 Kv	472	
	63&66 Kv	1418	
	<b>Distribution Total</b>	<b>1890</b>	
<b>Total</b>		<b>3579</b>	
Capacity of Substations	400 Kv	3460	MVA
	230 Kv	3330	
	<b>Transmission Total</b>	<b>6790</b>	
	132 Kv	480	
	63&66 Kv	1785	
	<b>Distribution Total</b>	<b>2265</b>	
<b>Total</b>		<b>9055</b>	

Reference : Regional Electric Companies