

## 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

23 Nov. 2018



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

**Nominal & Operational Capacity, Generation & Consumption Until 23 Nov. 2018**

Description		Measure	unit
Nominal Capacity of the Power plants	Thermal	64975	MW
	Nuclear	1020	
	Hydro	11938	
	Renewable	651	
	DG & CHP	1335	
<b>Total</b>		<b>79919</b>	
*Increase of Nominal Capacity	Steam		
	Gas	585	
	Combined Cycle	320	
	Diesel		
	Renewable	98	
	Hydro	70	
	DG & CHP	186	
<b>Total</b>		<b>1259</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	220541	
	Hydro & Renewable	7591	
	<b>Total</b>		<b>228132</b>
*Imported Energy	Change ( %) =-20	2257	
*Exported Energy	Change ( %) =-31	3984	

\* 21 March.2018 - 23 Nov.2018

Reference : Iran Grid Management Co. ( IGMC )

**Fuel Consumption, 21 March.2018- 23 Nov.2018**

Description	Change ( %)	Measure	unit
Natural Gas	5.2	53703	10 <sup>6</sup> m <sup>3</sup>
Diesel	-6.3	1439	10 <sup>6</sup>
Fuel Oil	-18.9	1488	Liter
<b>Total</b>	<b>4.07</b>	<b>56630</b>	

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

Date of Synchronization	Name	Type	Unit No.	Nominal Capacity
<b>Synchronized Power Plants Units</b>				
2018	Renewable	Renewable		98
2018	DG & CHP	DG & CHP		186
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
12/11/2018	Zahedan	Gas	1	42
25/11/2018	Hormoz	Gas	1	160
<b>Total Synchronized Power Plants Units</b>				<b>1259</b>
<b>Forecasted Power Plants Units</b>				
	Shirvan	Combined Cycle	2	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
	Renewable	Renewable		302
	DG & CHP	DG & CHP		14
	Asalooye	Combined Cycle	1	160
	Gharbe Karoon	Gas	1	162
	Iran LNG	Gas	1,2,3	480
<b>Total Forecasted Power Plants Units</b>				<b>2215</b>
<b>Synchronized &amp; Forcated Power Plants Units</b>				<b>3474</b>

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

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

Description	March. 2018	Increase	Nov. 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	101	23605	
	63&66 Kv	48295	509	48804	
<b>Total</b>	<b>71799</b>	<b>610</b>	<b>72409</b>	Km-Circuit	
<b>Total</b>	<b>124005</b>	<b>1530</b>	<b>125535</b>		
Capacity of Substations	400 Kv	64093	1760		65853
	230 Kv	82045	1751		83796
	<b>Total</b>	<b>146138</b>	<b>3511</b>		<b>149649</b>
	132 Kv	32251	608	32859	
	63&66 Kv	72794	1278	74072	
<b>Total</b>	<b>105045</b>	<b>1886</b>	<b>106931</b>	MVA	
<b>Total</b>	<b>251183</b>	<b>5397</b>	<b>256580</b>		
Power Plant Substations	89027	1073	90100		
<b>Total Substations</b>	<b>340210</b>	<b>6470</b>	<b>346680</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>	Km-Circuit	
<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>	MVA	
<b>Total</b>	<b>9345</b>		

Reference : Regional Electric Companies