

## 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>34854</b>		
Residential	27354	28103		10 <sup>3</sup> Customers
Public	1543	1624		
Agricultural	400	422		
Industrial	225	236		
Other Consumption (Commercial)	4301	4469		
<b>Distribution Network(March.2018)</b>				
Length of Medium-Voltage Lines	416	424	10 <sup>3</sup> Km	
Length of Low-Voltage Lines	353	362		
Number of Transformers	658	686	10 <sup>3</sup> Units	
Capacity of Transformers	114945	118830	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

20 April. 2018



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

**Nominal & Operational Capacity, Generation & Consumption Until 20 April. 2018**

Description	Measure	unit
Nominal Capacity of the Power plants	Thermal	64230
	Nuclear	1020
	Hydro	11881
	Renewable	364
	DG & CHP	1149
<b>Total</b>	<b>78644</b>	
*Increase of Nominal Capacity	Steam	
	Gas	
	Combined Cycle	160
	Diesel	
	Renewable	
	Hydro	
	DG & CHP	
<b>Total</b>	<b>160</b>	
*Actual Capacity at Peak Load Time (10/04/2018 at 20:27)	Thermal	52029
	Hydro	11462
	<b>Total</b>	<b>63491</b>
*Available Gen. at Peak Load Time (10/04/2018 at 20:27)	Thermal	35672
	Hydro	1812
	<b>Total</b>	<b>37484</b>
*Imported Power at Peak Load Time	325	
*Supplied Demand at Peak Load Time	37809	
*Max. Managed Consumption in 2018	Day(11/04/2017 at 12:50)	<b>36047</b>
	Night( 20:27)	<b>37809</b>
*Gross Generation	Thermal	23612
	Hydro	702
	<b>Total</b>	<b>24314</b>
*Imported Energy	Change ( %) =-17	316
*Exported Energy	Change ( %) =22	616

MW

GWH

\*From 21/3/2018 until report date

Reference : Iran Grid Management Co. ( IGMC )

**Fuel Consumption, 21 March.2017- 20 April.2018**

Description	Change ( %)	Measure	unit
Natural Gas	6.6	4899	10 <sup>6</sup> m <sup>3</sup>
Diesel	1443.8	494	10 <sup>6</sup>
Fuel Oil	135.1	134	Liter
<b>Total</b>	<b>17.97</b>	<b>5527</b>	

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

Date of Synchronization	Name	Type	Unit No.	Nominal Capacity
<b>Synchronized Power Plants Units</b>				
16/04/2018	Jahrom	Combined Cycle	1	160
<b>Total Synchronized Power Plants Units</b>				<b>160</b>
<b>Forecasted Power Plants Units</b>				
	Shirvan	Combined Cycle	1,2	320
	West mazandaran	Combined Cycle	1	140
	West mazandaran	Gas	1	307
	Bandarabas 2	Gas	1	307
	Pasargade Gheshm	Gas	1,2	324
	Khoram Abad	Gas	1,2	324
	Dalahoo	Gas	1	304
	Goharan	Combined Cycle	1	160
	Haris	Gas	1	310
	Makoo	Gas	1,2,3	110
	Parand	Combined Cycle	2,3	320
	Jahrom	Combined Cycle	2,3	320
	Sabalan	Combined Cycle	1	160
	Kashan	Combined Cycle	1	160
	Ferdosi	Combined Cycle	1,2,3	480
	Asalooye	Combined Cycle	1,2,3	480
	Dariyan	Hydro	3	70
	Sardasht	Hydro	1,2,3	150
	Renewable	Renewable		960
	DG & CHP	DG & CHP		200
<b>Total Forecasted Power Plants Units</b>				<b>5906</b>
<b>Synchronized &amp; Forcasted Power Plants Units</b>				<b>6066</b>

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

Description	March. 2018	Increase	April 2018	Unit
Length of Lines	400 Kv	20793	0	20793
	230 Kv	32084	760	32844
	<b>Total</b>	<b>52877</b>	<b>760</b>	<b>53637</b>
	132 Kv	23753	0	23753
	63&66 Kv	48366	74	48440
	<b>Total</b>	<b>72119</b>	<b>74</b>	<b>72193</b>
Capacity of Substations	<b>Total</b>	<b>124996</b>	<b>834</b>	<b>125830</b>
	400 Kv	63763	0	63763
	230 Kv	81695	0	81695
	<b>Total</b>	<b>145458</b>	<b>0</b>	<b>145458</b>
	132 Kv	32066	3	31650
	63&66 Kv	72489	70	71899
	<b>Total</b>	<b>104555</b>	<b>73</b>	<b>103549</b>
	<b>Total</b>	<b>250013</b>	<b>73</b>	<b>249007</b>
Power Plant Substations	88544	200	88744	
<b>Total Substations</b>	<b>338557</b>	<b>273</b>	<b>337751</b>	

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

Description	Jan. 2018	Unit
Length of Lines	400 Kv	597
	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
	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