

Sales, Customers, Rural & Distribution Networks Situation

Description	March 2017	Nov 2017	unit
Total Monthly Sales	237436	181614	
Residential	78378	63432	GWh
Public	22914	17344	
Agricultural	36222	29231	
Industrial	77603	55203	
Other Consumption (Commercial)	17620	13418	
Street Lighting	4699	2986	
Total Customers	33824	34470	
Residential	27354	27813	10 ³ Customers
Public	1543	1598	
Agricultural	400	417	
Industrial	225	232	
Other Consumption (Commercial)	4301	4410	
Distribution Network(Nov2017)			
Length of Medium-Voltage Lines	416	420	10 ³ Km
Length of Low-Voltage Lines	353	358	
Number of Transformers	658	673	10 ³ Units
Capacity of Transformers	114945	116663	MVA
Electrified Villages(Dec2017)			
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
Total	46748	100

Islamic Republic of Iran
Ministry of Energy


Tavanir Company

Statistical Summary of Iranian Electricity Industry

Deputy of Research & Human Resources

Information Technology & communications & Statistical Bureau

05 Jan. 2018



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

Nominal & Operational Capacity, Generation & Consumption Until 05 Jan. 2018

Description		Measure	unit
Nominal Capacity of the Power plants	Thermal	64070	MW
	Nuclear	1020	
	Hydro	11811	
	Renewable	322	
	DG & CHP	1109	
Total	78332		
Growth of Nominal Capacity In 2017	Steam		
	Gas	558	
	Combined Cycle	800	
	Diesel		
	Renewable	58	
	Hydro	295	
	DG & CHP	193	
Total	1904		
Actual Capacity at Peak Load Time (30/07/2017 at 14:45)	Thermal	48992	GWH
	Hydro	11322	
Total	60314		
Available Gen. at Peak Load Time (30/07/2017 at 14:45)	Thermal	44774	
	Hydro	9068	
Total	53842		
Imported Capacity at Peak Load Time	607		
Supplied Demand at Peak Load Time	54449		
Max. Managed Consumption in 2017	Day(30/07/2017 at 14:45)	55442	
	Night(29/07/2017 at 21:46)	53192	
Gross Generation From 3/20/2017	Thermal	243183	
	Hydro	13724	
Total	256907		
Imported In 2017	Change (%) = -9	3244	
Exported In 2017	Change (%) = 10	6678	

Reference : Iran Grid Management Co. (IGMC)

Fuel Consumption, 21 March 2017-05 Jan Dec. 2018

Description	Change (%)	Measure	unit
Natural Gas	10.1	56310	10 ⁶ m ³
Diesel	-16.8	2702	
Fuel Oil	-1.8	2613	
Total	8.00	61625	

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

Date of Synchronization	Name	Type	Unit No.	Nominal Capacity
Synchronized Power Plants Units				
2017	DG & CHP	DG & CHP		193
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
Total Synchronized Power Plants Units				1904
Forecasted Power Plants Units				
	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		57
Total Forecasted Power Plants Units				1260
Synchronized & Forcasted Power Plants Units				3164

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	
	Total	51801	894	52695	
	132 Kv	23413	323	23736	
	63&66 Kv	48063	268	48331	
Total	71476	591	72067		
Total	123277	1485	124762		
Capacity of Substations	400 Kv	62183	1300	63483	MVA
	230 Kv	80470	1015	81485	
	Total	142653	2315	144968	
	132 Kv	30865	735	31600	
	63&66 Kv	69456	2145	71601	
Total	100321	2880	103201		
Total	242974	5195	248169		
Power Plant Substations	86889	1655	88544		
Total Substations	329863	6850	336713		

Lines & Substation Projects With More Than 85% Progress

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

Reference : Regional Electric Companies