

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(Dec.2017)				
Length of Medium-Voltage Lines	416	420	10 ³ Km	
Length of Low-Voltage Lines	353	359		
Number of Transformers	658	675	10 ³ Units	
Capacity of Transformers	114945	117018	MVA	
Electrified Villages(Feb.2018)				
Total Number of Electrified Villages	56793	56993	Villages	
Total Electrified Villages Households	4492752	4496314	H.h.	
Length of Rural Medium-Voltage Lines	145049	145367	Km	
Length of Rural Low-Voltage Lines	99958	100075		
Number of Rural Transformers	76735	76963	Units	
Capacity of Rural Transformers	7687	7696	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 Household	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 Iran Electricity Industry

Deputy of Research & Human Resources

Information Technology , communication & Statistical Bureau

02 Feb. 2018



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

Nominal & Operational Capacity, Generation & Consumption Until 02 Feb. 2018

Description		Measure	unit
Nominal Capacity of the Power plants	Thermal	64070	MW
	Nuclear	1020	
	Hydro	11811	
	Renewable	322	
	DG & CHP	1120	
Total	78343		
*Increase of Nominal Capacity	Steam		
	Gas	558	
	Combined Cycle	800	
	Diesel		
	Renewable	58	
	Hydro	295	
	DG & CHP	204	
Total	1915		
Actual Capacity at Peak Load Time (30/07/2017 at 14:45)	Thermal	48992	
	Hydro	11322	
Total	60314		
Available Gen. at Peak Load Time (30/07/2017 at 14:45)	Thermal	44774	
	Hydro	9068	
Total	53842		
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)	55442	
	Night(29/07/2017 at 21:46)	53192	
*Gross Generation	Thermal	262614	GWH
	Hydro	14316	
	Total	276930	
*Imported Energy	Change (%) =-9	3550	
*Exported Energy	Change (%) =16	7350	

*From 3/21/2017

Reference : Iran Grid Management Co. (IGMC)

Fuel Consumption, 21 March 2017-02 Feb.2018

Description	Change (%)	Measure	unit
Natural Gas	10.7	59051	10 ⁶ m ³
Diesel	-9.5	4087	10 ⁶
Fuel Oil	-6.2	3195	Liter
Total	8.30	66333	

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		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
Total Synchronized Power Plants Units				1915
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		46
Total Forecasted Power Plants Units				1249
Synchronized & Forcasted Power Plants Units				3164

Transmission & Sub_Transmission Lines & Substations

Description		March. 2017	Increase	Jan. 2017	Unit
Length of Lines	400 Kv	20477	175	20652	Km-Circuit
	230 Kv	31324	719	32043	
	Total	51801	894	52695	
	132 Kv	23413	332	23745	
	63&66 Kv	48063	269	48332	
	Total	71476	601	72077	
Capacity of Substations	400 Kv	62183	1300	63483	MVA
	230 Kv	80470	1140	81610	
	Total	142653	2440	145093	
	132 Kv	30865	735	31600	
	63&66 Kv	69456	2260	71716	
	Total	100321	2995	103316	
Power Plant Substations		86889	1655	88544	
Total Substations		329863	7090	336953	

Lines & Substations 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