

Sales, Customers, Rural & Distribution

Networks Situation

Description	March 2017	Jan. 2017	unit
Total Monthly Sales	237436	218869	
Residential	78378	74409	GWh
Public	22914	20898	
Agricultural	36222	34097	
Industrial	77603	69483	
Other Consumption (Commercial)	17620	16171	
Street Lighting	4699	3811	
Total Customers	33824	34658	
Residential	27354	27956	10 ³ Customers
Public	1543	1608	
Agricultural	400	419	
Industrial	225	234	
Other Consumption (Commercial)	4301	4441	
Distribution Network(Jan.2017)			
Length of Medium-Voltage Lines	416	422	10 ³ Km
Length of Low-Voltage Lines	353	360	
Number of Transformers	658	680	10 ³ Units
Capacity of Transformers	114945	117861	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	Jan. 2017
Residential	33.0	34.0
Public	9.7	9.5
Agricultural	15.3	15.6
Industrial	32.7	31.7
Other Consumption (Commercial)	7.4	7.4
Street Lighting	2.0	1.7

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

23 Feb. 2018



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

Nominal & Operational Capacity, Generation & Consumption Until 23 Feb. 2018

Description	Measure	unit
Nominal Capacity of the Power plants	Thermal	64070
	Nuclear	1020
	Hydro	11811
	Renewable	322
	DG & CHP	1128
Total	78351	
*Increase of Nominal Capacity	Steam	
	Gas	558
	Combined Cycle	800
	Diesel	
	Renewable	58
	Hydro	295
	DG & CHP	212
Total	1923	
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	277068
	Hydro	14754
Total	291822	
*Imported Energy	Change (%) =-8	3762
*Exported Energy	Change (%) =21	7758

MW

GWH

*From 3/21/2017

Reference : Iran Grid Management Co. (IGMC)

Fuel Consumption, 21 March 2017-23 Feb.2018

Description	Change (%)	Measure	unit
Natural Gas	12.7	61912	10 ⁶ m ³
Diesel	-16.5	4519	10 ⁶
Fuel Oil	-12.4	3531	Liter
Total	8.65	69962	

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		212
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				1923
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		38
Total Forecasted Power Plants Units				1241
Synchronized & Forcasted Power Plants Units				3164

Transmission & Sub_Transmission Lines & Substations

Description	March. 2017	Increase	Feb. 2018	Unit	
Length of Lines	400 Kv	20477	175	20652	
	230 Kv	31324	818	32142	
	Total	51801	993	52794	
	132 Kv	23413	381	23794	
	63&66 Kv	48063	297	48360	
Total	71476	678	72154	Km-Circuit	
Total	123277	1671	124948		
Capacity of Substations	400 Kv	62183	1500		63683
	230 Kv	80470	1060		81530
	Total	142653	2560		145213
	132 Kv	30865	785	31650	
	63&66 Kv	69456	2443	71899	
Total	100321	3228	103549	MVA	
Total	242974	5788	248762		
Power Plant Substations	86889	1655	88544		
Total Substations	329863	7443	337306		

Lines & Substations Projects With More Than 85% Progress

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

Reference : Regional Electric Companies