

Sales, Customers, Rural & Distribution

Networks Situation

Description	March 2017	Jan. 2018	unit
Total Monthly Sales	237436	218951	
Residential	78378	74409	GWh
Public	22914	20902	
Agricultural	36222	34070	
Industrial	77603	69606	
Other Consumption (Commercial)	17620	16171	
Street Lighting	4699	3793	
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.2018)			
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. 2018
Residential	33/0	34/0
Public	9/7	9/5
Agricultural	15/3	15/6
Industrial	32/7	31/8
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

16 March. 2018



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

Nominal & Operational Capacity, Generation & Consumption Until 16 March. 2018

Description		Measure	unit
Nominal Capacity of the Power plants	Thermal	64070	MW
	Nuclear	1020	
	Hydro	11881	
	Renewable	322	
	DG & CHP	1128	
Total	78421		
*Increase of Nominal Capacity	Steam		
	Gas	558	
	Combined Cycle	800	
	Diesel		
	Renewable	58	
	Hydro	365	
	DG & CHP	212	
Total	1993		
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 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	209768	
	Hydro	15169	
Total	305937		
*Imported Energy	Change (%) =-11	3896	
*Exported Energy	Change (%) =24	8053	

*From 21/3/2017

Reference : Iran Grid Management Co. (IGMC)

Fuel Consumption, 21 March 2017-30 Feb.2018

Description	Change (%)	Measure	unit
Natural Gas	13.0	62982	10 ⁶ m ³
Diesel	-17.0	4581	10 ⁶
Fuel Oil	-13/9	3604	Liter
Total	8.72	71167	

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
28/02/2018	Daarian	Hydro	2	70
Total Synchronized Power Plants Units				1993
Forecasted Power Plants Units				
	West mazandaran	Gas	1	307
	Makou	Gas	1,2	74
	Renewable	Renewable		632
	DG & CHP	DG & CHP		38
Total Forecasted Power Plants Units				1051
Synchronized & Forcasted Power Plants Units				3044

Transmission & Sub_Transmission Lines & Substations

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