

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

16 Feb. 2018



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

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

Description	Measure	unit
Nominal Capacity of the Power plants	Thermal	64070
	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	272295
	Hydro	14596
Total	286891	
*Imported Energy	Change (%) =-8	3712
*Exported Energy	Change (%) =20	7635

MW

GWH

*From 3/21/2017

Reference : Iran Grid Management Co. (IGMC)

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

Date of Syn-chronization	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. 2018	Unit
Length of Lines	400 Kv	20477	175	20652
	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
	230 Kv	80470	1140	81610
	Total	142653	2440	145093
	132 Kv	30865	735	31600
	63&66 Kv	69456	2260	71716
Total	100321	2995	103316	
Total	242974	5435	248409	
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
	230 Kv	1067
	Transmission Total	1689
	132 Kv	472
	63&66 Kv	1418
Distribution Total	1890	
Total	3579	
Capacity of Substations	400 Kv	3460
	230 Kv	3330
	Transmission Total	6790
	132 Kv	480
	63&66 Kv	1785
Distribution Total	2265	
Total	9055	

Reference : Regional Electric Companies

Fuel Consumption, 21 March 2017-16 Feb.2018

Description	Change (%)	Measure	unit
Natural Gas	12.0	60905	10 ⁶ m ³
Diesel	-14.5	4400	10 ⁶
Fuel Oil	-10.4	3434	Liter
Total	8.5	68739	