

Sales, Customers, Rural & Distribution

Networks Situation

Description	March 2017	March 2018	unit	
Total Monthly Sales	237436	255724		
Residential	78378	84682	GWh	
Public	22914	24340		
Agricultural	36222	39437		
Industrial	77603	83781		
Other Consumption (Commercial)	17620	18871		
Street Lighting	4699	4612		
Total Customers	33824	34833		
Residential	27354	28105		10 ³ Customers
Public	1543	1608		
Agricultural	400	422		
Industrial	225	236		
Other Consumption (Commercial)	4301	4463		
Distribution Network(March.2018)				
Length of Medium-Voltage Lines	416	424	10 ³ Km	
Length of Low-Voltage Lines	353	363		
Number of Transformers	658	686	10 ³ Units	
Capacity of Transformers	114945	118901	MVA	
Electrified Villages(March.2018)				
Total Number of Electrified Villages	56793	57065	Villages	
Total Electrified Villages Households	4492752	4497427	H.h.	
Length of Rural Medium-Voltage Lines	145049	145557	Km	
Length of Rural Low-Voltage Lines	99958	100131		
Number of Rural Transformers	76735	77060	Units	
Capacity of Rural Transformers	7687	7700	MVA	

Electricity Industry at a Glance, March 2018

Description	Measure	unit
Installed Capacity per Capita	959	W
Generation per Capita	3820	KWh
Consumption per Capita	3126	
Ave.Con. Of each Household	3013	

Various Consumption Sectors (%)

Description	March 2017	March 2018
Residential	33.0	33.1
Public	9.7	9.5
Agricultural	15.3	15.4
Industrial	32.7	32.8
Other Consumption (Commercial)	7.4	7.4
Street Lighting	2.0	1.8

Power Industry Personnel, March 2018

Description (Degree)	Person	%
School Education	3185	6.8
High School Diploma	7349	15.8
Associate Degree	7549	16.2
B.A. / B.S. Degree	21454	46.1
M.S. & Ph.D.	7037	15.1
Total	46756	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

13 April. 2018



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

Nominal & Operational Capacity, Generation & Consumption Until 13 April. 2018

Description		Measure	unit	
Nominal Capacity of the Power plants	Thermal	64070	MW	
	Nuclear	1020		
	Hydro	11881		
	Renewable	364		
	DG & CHP	1149		
Total	78484			
Increase of Nominal Capacity	Steam			MW
	Gas	558		
	Combined Cycle	800		
	Diesel			
	Renewable	100		
	Hydro	365		
	DG & CHP	233		
Total	2056			
Actual Capacity at Peak Load Time (30/07/2017 at14:45)	Thermal	48992	MW	
	Hydro	11322		
Total	60314			
Available Gen. at Peak Load Time (30/07/2017 at 14:45)	Thermal	44774	MW	
	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	MW	
	Night(29/07/2017 at 21:46)	53192		
*Gross Generation	Thermal	18561	GWH	
	Hydro	602		
	Total	19163		
*Imported Energy	Change (%) =-13	248		
*Exported Energy	Change (%) =25	500		

*From 21/3/2018

Reference : Iran Grid Management Co. (IGMC)

Fuel Consumption, 21 March.2017- 13 April.2018

Description	Change (%)	Measure	unit
Natural Gas	18.9	4057	10 ⁶ m ³
Diesel	233.3	60	10 ⁶
Fuel Oil	18.2	52	Liter
Total	19.97	4169	

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		233
2017	Renewable			100
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
Synchronized & Forcasted Power Plants Units				2056

Transmission & Sub_Transmission Lines & Substations

Description		March. 2017	Increase	March. 2018	Unit
Length of Lines	400 Kv	20477	316	20793	Km-Circuit
	230 Kv	31324	760	32084	
	Total	51801	1076	52877	
	132 Kv	23413	340	23753	
	63&66 Kv	48063	303	48366	
Total	71476	643	72119		
Total	123277	1719	124996		
Capacity of Substations	400 Kv	62183	1580	63763	MVA
	230 Kv	80470	1225	81695	
	Total	142653	2805	145458	
	132 Kv	30865	1201	31650	
	63&66 Kv	69456	3033	71899	
	Total	100321	4234	103549	
Total	242974	7039	249007		
Power Plant Substations	86889	1655	88544		
Total Substations	329863	8694	337551		

Lines & Substations Projects With More Than 85% Progress

Description		Jan. 2018	Unit
Length of Lines	400 Kv	597	Km-Circuit
	230 Kv	732	
	Transmission Total	1329	
	132 Kv	377	
	63&66 Kv	928	
Distribution Total	1305		
Total	2634		
Capacity of Substations	400 Kv	2545	MVA
	230 Kv	2495	
	Transmission Total	5040	
	132 Kv	430	
	63&66 Kv	1940	
Distribution Total	2370		
Total	7410		

Reference : Regional Electric Companies