

Sales, Customers, Rural & Distribution

Networks Situation

Description	March 2018	Nov 2018	unit
Total Monthly Sales	255026	189023	
Residential	83402	65465	GWh
Public	24328	17856	
Agricultural	39379	29985	
Industrial	84218	59092	
Other Consumption (Commercial)	18681	13728	
Street Lighting	5017	2897	
Total Customers	34836	35565	
Residential	28101	28608	10 ³ Customers
Public	1611	1674	
Agricultural	422	438	
Industrial	236	243	
Other Consumption (Commercial)	4465	4602	
Distribution Network	Mar-18	Nov-18	unit
Length of Medium-Voltage Lines	425	430	10 ³ Km
Length of Low-Voltage Lines	362	367	
Number of Transformers	687	703	10 ³ Units
Capacity of Transformers	119361	121015	MVA
Electrified Villages	Mar-18	Nov-18	unit
Total Number of Electrified Villages	57030	57095	Villages
Total Electrified Villages Households	4496820	4497578	H.h.
Length of Rural Medium-Voltage Lines	145436	145543	Km
Length of Rural Low-Voltage Lines	100091	100133	
Number of Rural Transformers	77002	77099	Units
Capacity of Rural Transformers	7698	7701	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	3117	
Ave.Con. Of each Household	2968	

Various Consumption Sectors (%)

Description	March 2018	Nov 2018
Residential	32.7	34.3
Public	9.5	10.0
Agricultural	15.4	16.2
Industrial	33.0	30.6
Other Consumption (Commercial)	7.3	7.4
Street Lighting	2.0	1.5

Power Industry Personnel, March 2018

Description (Degree)	Person	%
School Education	3110	6.7
High School Diploma	7114	15.3
Associate Degree	7436	16.0
B.A. / B.S. Degree	21370	46.1
M.S. & Ph.D.	7316	15.8
Total	46346	100

Islamic Republic of Iran
Ministry of Energy


Tavanir Company

Statistical Summary of Iran Electricity Industry

Deputy of Research & Human Resources

Information , communication Technology & Statistics Bureau

21 Dec. 2018



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

Nominal & Operational Capacity, Generation & Consumption Until 21 Dec. 2018

Description		Measure	unit
Nominal Capacity of the Power plants	Thermal	65109	MW
	Nuclear	1020	
	Hydro	11938	
	Renewable	651	
	DG & CHP	1341	
Total		80059	
*Increase of Nominal Capacity	Steam		
	Gas	585	
	Combined Cycle	320	
	Diesel		
	Renewable	98	
	Hydro	70	
	DG & CHP	192	
Total		1265	
*Actual Capacity at Peak Load Time (11/07/2018 at 16:38)	Thermal	49142	GWH
	Hydro & Renewable	11466	
Total		60608	
*Available Gen. at Peak Load Time (11/07/2018 at 16:38)	Thermal	44884	
	Hydro & Renewable	3775	
Total		48659	
*Imported Power at Peak Load Time		214	
*Supplied Demand at Peak Load Time		48873	
*Max. Managed Consumption in 2018	Day(11/07/2018 at 16:38)	57098	
	Night(10/07/2018 at 21:37)	55175	
*Gross Generation	Thermal	239308	
	Hydro & Renewable	8163	
	Total		247471
*Imported Energy	Change (%) =-20	2464	
*Exported Energy	Change (%) =-31	4453	

* 21 March.2018 - 21Dec.2018

Reference : Iran Grid Management Co. (IGMC)

Fuel Consumption, 21 March.2018- 21 Dec.2018

Description	Change (%)	Measure	unit
Natural Gas	5.7	57297	10 ⁶ m ³
Diesel	-27.3	1896	10 ⁶
Fuel Oil	-20.4	1875	Liter
Total	3.24	61068	

Synchronized & Forcasted Power Plants Units In(2018-2019)**

Date of Synchronization	Name	Type	Unit No.	Nominal Capacity
Synchronized Power Plants Units				
2018	Renewable	Renewable		98
2018	DG & CHP	DG & CHP		192
16/04/2018	Jahrom	Combined Cycle	1	160
22/07/2018	Caspian	Gas	1	307
31/07/2018	Dariyan	Hydro	3	70
06/08/2018	Parand	Combined Cycle	2	160
07/10/2018	Golbarg(Makoo)	Gas	1,2	76
12/11/2018	Zahedan	Gas	1	42
25/11/2018	Hormoz	Gas	1	160
Total Synchronized Power Plants Units				1265
Forecasted Power Plants Units				
	Shirvan	Combined Cycle	2	160
	Dalahoo	Gas	1	307
	Jahrom	Combined Cycle	2	160
	Sabalan	Combined Cycle	1	160
	Kashan	Combined Cycle	1	160
	Sardasht	Hydro	1,2,3	150
	Renewable	Renewable		302
	DG & CHP	DG & CHP		8
	Asalooye	Combined Cycle	1	160
	Gharbe Karoon	Gas	1	162
	Iran LNG	Gas	1,2,3	480
	Ferdosi	Combined Cycle	1	160
Total Forecasted Power Plants Units				2369
Synchronized & Forcasted Power Plants Units				3634

**21 March.2018 - 20 March.2019

Transmission & Sub_Transmission Lines & Substations

Description	March. 2018	Increase	Dec. 2018	Unit	
Length of Lines	400 Kv	20617	363	20980	
	230 Kv	31589	674	32263	
	Total	52206	1037	53243	
	132 Kv	23504	101	23605	
	63&66 Kv	48295	512	48807	
Total	71799	613	72412	Km-Circuit	
Total	124005	1650	125655		
Capacity of Substations	400 Kv	64093	1760		65853
	230 Kv	82045	2151		84196
	Total	146138	3911		150049
	132 Kv	32251	743	32994	
	63&66 Kv	72794	1323	74117	
Total	105045	2066	107111	MVA	
Total	251183	5977	257160		
Power Plant Substations	89027	1073	90100		
Total Substations	340210	7050	347260		

Lines & Substations Projects With More Than 85% Progress

Description	Sep. 2018	Unit
Length of Lines	400 Kv	409
	230 Kv	374
	Transmission Total	783
	132 Kv	680
	63&66 Kv	1861
Distribution Total	2541	Km-Circuit
Total	3324	
Capacity of Substations	400 Kv	2545
	230 Kv	3480
	Transmission Total	6025
	132 Kv	635
	63&66 Kv	2685
Distribution Total	3320	MVA
Total	9345	

Reference : Regional Electric Companies