



**TNEB LIMITED**

**TAMIL NADU GENERATION AND  
DISTRIBUTION CORPORATION LIMITED**

**TAMIL NADU TRANSMISSION CORPORATION  
LIMITED**

**DATA CARD**  
**(2016-17)**

**Installed capacity as on 31.05.17**

<b>Sl.No.</b>	<b>Name of power station</b>	<b>Capacity in MW</b>
	<b>Hydro – Non Irrigation</b>	
1	Kundah PH I (3x20 MW)	60
2	Kundah PH II (5x35 MW)	175
3	Kundah PH III (3x60 MW)	180
4	Kundah PH IV (2x50 MW)	100
5	Kundah PH V (2x20 MW)	40
6	Kundah PH VI (1x30 MW)	30
7	Pykara PH (3x7) +( 1x11) + (2x13.6 MW)	59.2
8	Moyar PH (3x12 MW)	36
9	Aliyar PH (1x60 MW)	60
10	Kadamparai PH (4x100 MW)	400
11	Suruliyar PH (1x35 MW)	35
12	Poonachi Mini PH (2x1 MW)	2
13	Maravakandy Mini Micro PH (1x0.75 MW)	0.75
14	Mukurthy Mini PH (2x0.35 MW)	0.70
15	Pykara Micro PH (1x2 MW)	2
16	PUSHEP (3x50 MW)	150
17	Kodayar PH I (1x60 MW)	60
18	Kodayar PH II (1x40 MW)	40
	<b>Total Hydro – Non Irrigation</b>	<b>1430.65</b>
	<b>Hydro – Irrigation</b>	
1	Sarkarpathy PH (1x30 MW)	30
2	Sholayar PH-I (2x35 MW)	70
3	Sholayar PH-II (1x25 MW)	25
4	Mettur Dam PH (4x12.5 MW)	50
5	Mettur Tunnel PH (4x50 MW)	200
6	Bhavani Kattalai Barrage PH –I (2x15 MW)	30
7	Bhavani Kattalai Barrage PH- II (2x15 MW)	30
8	Bhavani Kattalai Barrage PH- III (2x15 MW)	30
9	Lower Mettur Barrage PH-I (2x15 MW)	30
10	Lower Mettur Barrage PH-II (2x15 MW)	30
11	Lower Mettur Barrage PH-III (2x15 MW)	30
12	Lower Mettur Barrage PH-IV (2x15 MW)	30
13	Lower Bhavani Micro Hydel PH (4x2 MW)	8
14	Lower Bhavani RBC (2x4 MW)	8
15	Sathanur Dam PH (1x7.5 MW)	7.5
16	Periyar PH (4x42)	168
17	Papanasam PH (4x8 MW)	32
18	Servalar PH (1x20 MW)	20

<b>Sl.No.</b>	<b>Name of power station</b>	<b>Capacity in MW</b>
19	Vaigai Small PH (2x3 MW)	6
20	Thirumurthy Mini PH (3x0.65 MW)	1.95
21	Aliyar Mini PH (2x1.25 MW)	2.5
22	Amaravathi (2x2 MW)	4
23	Perunchani (2x0.65 MW)	1.3
24	Periyar Vaigai Mini PH-I (2x2 MW)	4
25	Periyar Vaigai Mini PH-II (2x1.25 MW)	2.5
26	Periyar Vaigai Mini PH-III (2x2 MW)	4
27	Bhavani Barrage 2 PH (2x5 MW)	10
28	Bhavani Barrage 1 PH (2x5 MW)	10
29	Periyar Vaigai Mini PH – IV (2x1.25 MW)	2.5
	<b>Total Hydro – Irrigation</b>	<b>877.25</b>
	<b>Grand Total Hydro</b>	<b>2307.90</b>

### Thermal Power Stations

<b>Sl.No.</b>	<b>Name of power station</b>	<b>Capacity in MW</b>
	<b>Thermal</b>	
1	Mettur Thermal Power Station-I (4x210 MW)	840
2	Tuticorin Thermal Power Station (5x210 MW)	1050
3	North Chennai Thermal Power Station –I (3x210MW)	630
4	Mettur Thermal Power Station II (1x600 MW)	600
5	North Chennai Thermal Power Station –II (2x600 MW)	1200
	<b>Total Thermal</b>	<b>4320.00</b>

<b>Sl. No.</b>	<b>Name of power station</b>	<b>Capacity in MW</b>
	<b>Gas</b>	
1	Basin Bridge (4x30 MW )	120.00
2	Kovil Kalappal (1x107.88 MW)	107.88
3	Valuthur (Phase I- 95MW & Phase II-92.2MW)	187.20
4	Kuttalam (1x101 MW)	101.00
	<b>Total Gas</b>	<b>516.08</b>

S.No	Stations	Share in MW
	<b>Central Generating Stations</b>	
1	NTPC Ramagundam Stage I, II & III – 2600MW (3x200MW, 3x500MW & 1x500MW)	658
2	Talcher STPP –Stage II - 2000 MW (4x500MW)	489
3	Simhadri Stage II - 1000 MW (2x500MW)	224
4	NTECL-Vallur units I, II & III -1500 MW (3x500MW)	1065
5	NLC –TPS 1 -600 MW (6x50MW + 3x100MW)	475
6	NLC – TPS 1 Expansion- 420 MW (2x210MW)	227
7	NLC TS-II Stage 1- 630MW ( 3x210MW)	189
8	NLC TS-II Stage 2 - 840 MW (4x210MW)	282
9	Neyveli TS 2 Expansion units I & II -500 MW (2x250MW)	271
10	NTPL- Tuticorin units I & II- 1000 MW (2x500MW)	413
11	MAPS 440 MW (2x220MW)	331
12	KAPS –Unit 1 to 4, 880 MW (4x220MW)	226
13	Kudankulam NPP (KKNPP) -2000 MW (2x1000MW)	1152.50
14	External Assistance from ER	35
	<b>TOTAL CGS</b>	<b>6037.50</b>

#### Power Purchases

Sl. No.	Name of power station	Share in MW
	<b>Independent Power Plants (IPP )</b>	
1	Pillaiperumalnallur GTPP (1x 330.50 MW)	330.50
2	TAQA Neyveli Power Company (1x250 MW)	250.00
3	LANCO Tanjore Power Company (1x113.20 MW)	113.20
4	Pioneer power limited (1x 52.80 MW)	52.80
	<b>Total IPP</b>	<b>746.50</b>

Sl.No	Traders / Generators	Quantum in MW
	<b>Captive Power Plants</b>	
	<b>Captive Generators</b> (Open Access Quantum)	<b>1074.80*</b>
	* Though CPPs not supply to TANGEDCO they supply power through open access to private consumers.	
	<b>Total</b>	<b>1074.80</b>

Sl.No.	Traders / Generators	Quantum in MW
	<b>Long term open access (LTOA)</b>	
1	OPG (Intra-state)	74
2	Coastal Energen (Intra-state)	558
3	IL&FS (Intra-state)	540
4	Jindal Power Ltd.	400
5	DB Power	208
6	BALCO	200
7	KSK Mahanadhi	500
8	GMR /EMCO	150
9	Dhariwal	100
10	Athunik	100
11	Ind Barath Energy (UTKAL) Ltd	500
	<b>TOTAL</b>	<b>3330</b>

Sl.No.	Traders / Generators	Quantum in MW
	<b>Medium term open access (MTOA)</b>	
1	ADANI	200.00
2	Jindal	200.00
	<b>Total</b>	<b>400.00</b>

**Total installed capacity 18732.78**

Sl. No.	Renewable energy sources	Capacity in MW
1	Wind	7,854.81
2	Solar	1,702.40
3	Biomass – Combustion	230.00
4	Bagasse	692.40
	<b>Total</b>	<b>10,479.61</b>

### Ongoing and new projects

Sl.No.	Project	Capacity (MW)	Cost (Rs in crores)
<b>Ongoing projects</b>			
1.	ETPS Expansion Project (1 x 660MW – Super critical)	660	5421.00
2.	Ennore SEZ Thermal Power Project (2 x 660MW)	1320	9800.00
3.	NCTPS Stage-III (1 x 800MW)	800	6376.00
4.	Uppur Thermal Power Project (2 x 800MW)	1600	12778.00
5.	Udangudi Thermal Power Project Stage-I (2 x 660MW)	1320	10615.00
6.	Kundha Pumped Storage Hydro Electric Project (4 x 125MW)	500	1831.29
	<b>Sub total - Ongoing projects</b>	<b>6200</b>	<b>46821.29</b>
<b>New projects</b>			
7.	Udangudi Expansion Project Stage-II (2 x 660MW)	1320	8745.00
8.	Udangudi Expansion Project Stage-III (2 x 660MW)	1320	8745.00
9.	Ennore Replacement Thermal Power Project (1 x 660MW)	660	5400.00
10.	Sillahallah Pumped Storage Hydro Electric Project (4 x 500 MW)	2000	7000.00
11.	Kadaladi Thermal Power Project (5 x 800MW)	4000	24000.00
	<b>Sub total - New projects</b>	<b>9300</b>	<b>53890.00</b>
	<b>Grand total</b>	<b>15500</b>	<b>100711.29</b>

## CONSUMERS AND CONSUMPTION

Consumers	Tariff	Consumers as on 31.03.17 (in lakhs)	Consumption in MU
HT (Including sale to traders )	I to V	0.09	28,558
LT			
Domestic	I A	195.71	24,530
Huts	I B	11.25	452
Bulk Supply	I C	0.01	10
Public Lighting & Water supply	II A	7.18	2,405
Recognised Educational Institutions & Private Educational Institutions	II B (1) & II B (2)	1.00	412
Actual places of public worship	II C	1.23	129
Cottage and Tiny Industries	III A (1)	1.39	271
Powerlooms	III A(2)	1.53	967
Industries	III B	3.67	6,643
Agriculture	IV	20.73	11,727
Commercial	V	33.49	6,734
Temporary Supply	VI	1.99	182
<b>Total</b>		<b>279.27</b>	<b>83,020</b>

<b>Revised Tariff rates from 23.05.2016 ordered in TNERC Tariff Order dated 11.12.2014 subsidized rate (Payable by the consumer)</b>			
<b>I- HIGH TENSION SUPPLY</b>			
<b>Tariff</b>	<b>Category of Consumers</b>	<b>Demand Charges (Rs. Per kVA p.m.)</b>	<b>Energy Charges (Paise/Unit)</b>
<b>I-A</b>	Industries, Registered factories, Textiles, Tea estates, etc.,	350	635
<b>I-B</b>	Railway Traction	300	635
<b>II-A</b>	Govt. and Govt. aided Educational Institutions, Govt. Hospitals, Public Lighting & Water supply, Places of Worship etc.,	350	635
<b>II - B</b>	Private Educational Institutions & hostels	350	635
<b>III</b>	Commercial and other categories, Private Communication providers, Cinema Studios and Cinema Theatres	350	800
<b>IV</b>	Lift Irrigation for Agriculture under Co-op Societies	Nil	0
<b>V</b>	HT Temporary Supply for construction and other temporary purposes	350	1100
<b>II- LOW TENSION SUPPLY</b>			
	<b>Unit slabs bi-monthly</b>	<b>Energy Charges (Paise/Unit)</b>	<b>Fixed Charges for 2 months (Rs.)</b>
<b>I-A</b>	Domestic, Handloom, Nutrition Centres etc.		
	Consumption upto 100 units bi-monthly		
	0-100 units	0	0
	Consumption from 101 units to 200 units bi-monthly		
	0-100 units	0	20/service
	101-200 units	150	
	Consumption from 201 units to 500 units bi-monthly		
	0-100 units	0	30/service
	101-200 units	200	
	201 to 500 Units	300	
	Consumption from 501 units and above bi-monthly		
	0-100 units	0	50/service
	101-200 units	350	
	201 to 500 Units	460	
501 units and above	660		
Hand Loom Weavers (at corresponding slabs)	0-200 units bi-monthly	0	0



<b>Revised Tariff rates from 23.05.2016 ordered in TNERC Tariff Order dated 11.12.2014 subsidized rate (Payable by the consumer)</b>			
<b>Tariff</b>	<b>Category of Consumers</b>	<b>Energy Charges (Paise/Unit)</b>	<b>Fixed Charges for 2 months (Rs.)</b>
<b>I-B</b>	Huts in village panchayats,TAHDCO: Metered	0	0
	Till meters are fixed:-	0	0
<b>I-C</b>	L.T. Bulk supply, Railway Colonies, Defence colonies etc.	460	120/service
<b>II-A</b>	Public lighting, water supply, sewer Village Panchayats/Town Panchayat Municipality/ Corporations.	635	120/kW
<b>II-B(1)</b>	Govt and Aided Educational Institutions, Govt. Hospitals etc.	575	120/kW
<b>II B(2)</b>	Private Educational Institutions & hostels	750	120/kW
<b>II-C</b>	Places of Public worship, Mutts		
	0-120 units	285	120/kW
	Above 120 Units	575	
<b>III-A (1)</b>	Cottage, Tiny Industries, (Upto 10HP)		
	Upto 500 Units	400	40/kW
	Above 500 Units	460	
<b>III-A (2)</b>	Power Looms (upto 10 HP) incl. Winding etc.		
	Upto 750Units	0	0
	751-1000 units	230	70/kW
	1001-1500 units	345	
	Above 1500 Units	460	
<b>III-B</b>	Industries	635	70/kW
<b>IV</b>	Agriculture & Govt. Seed Farms. And SFS: Metered	0	0
	Till meters are fixed:-	0	0
<b>V</b>	Consumers not categorized under LT – IA, IB, IC, IIA, IIB(1), IIB(2), IIC, IIIA(1), IIIA(2), IIIB, IV & VI		
	consumption upto 100 units bi-monthly 0-100 units	500	140/kW
	consumption above 100 units bi monthly For all units	805	140/kW

<b>Revised Tariff rates from 23.05.2016 ordered in TNERC Tariff Order dated 11.12.2014 subsidized rate (Payable by the consumer)</b>			
<b>Tariff</b>	<b>Category of Consumers</b>	<b>Energy Charges (Paise/Unit)</b>	<b>Fixed Charges for 2 months (Rs.)</b>
<b>VI</b>	Temporary Supply		
	Temporary activities such as construction of commercial complexes/residential building/complexes. Additional construction of beyond 2000 square feet in the premises of an existing consumer.	1200	Rs.690/kW
	Lavish illuminations		

### STAFF STRENGTH AS ON 31.03.17

<b>Class</b>	<b>Cadre</b>	<b>Sanctioned</b>	<b>Utilised</b>	<b>Vacant</b>
I	Provincial	1,257	1,194	63
II	Provincial	12,002	10,385	1,617
III	Provincial	28,865	18,556	10,309
IV	Provincial	1,453	1,039	414
III & IV	RWE	85,338	55,823	29,515
Total		<b>1,28,915</b>	<b>86,997</b>	<b>41,918</b>

### SALIENT FEATURES AT A GLANCE

Details	2007-08	2008 -09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
Installed capacity (MW)	10,122	10,214	10,214	10,237	10,364.54	10,515.34	11,884.44	13,231.44	17,976.48	18,732.78
Generation & Purchase(MU)	66,849	67,076	72,887	76,071	76,535	74,872	89,793	94,128	99,691	1,05,728
Energy Sales (MU)	52,831	53,065	57,776	58,858	61,387	58,810	70,976	76,828	79,464	83,020
Substations (Nos.)	1,202	1,259	1,309	1,343	1,320	1,341	1,392	1442	1,499	1,547
EHT & HT lines (Lakh Ckt.Kms.)	1.64	1.65	1.69	1.77	1.80	1.84	1.89	1.95	2.00	2.04
LT lines (Lakh.Kms.)	5.18	5.29	5.39	5.56	5.67	5.78	5.88	5.98	6.10	6.19
Distn.Transformers (Nos.)	1,80,763	1,86,638	1,92,632	2,03,794	2,12,919	2,21,288	2,31,224	2,46,748	2,64,029	2,82,028
Per capita consumption (Units )	1000	1000	1080	1040	1065	1011	1196	1228	1,280	1,340
<b>ELECTRIFICATION</b>										
Towns, Villages & Hamlets (Nos.)	63,956	63,956	63,956	63,956	63,956	79,263*	79,248*	79,245*	79,245*	79,279*
Pumpsets (Lakhs)	18.39	18.73	19.08	19.85	20.16	20.33	20.47	20.46	20.60	20.73
Consumers (Lakhs)	194.34	203.87	212.76	223.44	231.80	243.51	252.32	264.67	270.26	279.27

\* Habitations electrified.

## **ACHIEVEMENTS (2016-17)**

- Maximum peak demand reached is 15,343 MW on 29.04.2016 and the maximum energy consumption is 345.617 MU on 29.04.2016.

\*\*\*\*\*