

Proposal for Electricity Improvement



Electric Power Committee, JCCIC, November 2014

Proposal for Electricity Improvement

Agenda

- 1. Current situation and prospect of electricity supply***
- 2. Proposal of the meeting with TNEB***
- 3. Conclusion***

Proposal for Electricity Improvement

Agenda 1. Current situation and prospect of electricity supply



The review of the Meeting with GoTN on June 20th, 2014

No.	Name of Project	Status	Capacity	Remarks by TANGEDCO
1	Northern Chennai	Stage 2	2 Unit x 600 = 1200	1 st unit Commissioned on 20 th Feb 2014 2 nd Unit Commissioned on 8 th May 2014
			1 Unit x 800 = 800	Public Hearing (which is part of the environmental clearance approval process) is scheduled on 4 th Jul 2014 The unit is scheduled to be commissioned during 2019 - 2020
2.	Mettur Thermal Power	Stage 3	1 unit x 600 = 600	Commissioned on 12 th Oct 2013
3	Vallur JV Project	n/a	3 Unit x 500 = 1500 (TN Share 70%)	Unit 1 – Commissioned on 29 th Nov 2012 Unit 2 - Commissioned on 25 th Aug 2013 Unit 3 – To be commissioned in Aug 2014
4	Tuticorin JV Project	n/a	2 Unit x 500 = 1000 (TN Share 387 MW)	Unit 1 – To be Commissioned in Oct 2014 Unit 2 – To be Commissioned in Mar 2015
5	Koodankulam Nuclear Project	Stage 1	2 Unit x 1000 = 2000 Unit 1 (TN Share 562 MW)	Unit 1 - maximum capacity reached on 7 th June 2014 Unit 2 – To be ready in Dec 2014

Periodical Monitoring at Every Quarter to be continued !!

Proposal for Electricity Improvement

Agenda 1. Current situation and prospect of electricity supply

JETRO

TN Thermal and Nuclear Power Plants Location Map

As of 9th Oct. 2014

[Vallur] ※ NTPC(Central G)-JV of TNEB
 ○ Unit 1 (500MW(375MW) : Nov.2012)
 ○ Unit 2 (500MW(375MW) : Aug.2013)
 ● Unit 3 (500MW(350MW) : Oct. 2014)

[Neyveli] ※ NLC(central G)
 ○ Station 1 (6×50MW + 3×100MW (total 475MW): May 1962)
 ○ Expansion (420MW(226MW) : Oct.2002)
 ○ Station 2 (7×210MW(909MW) : Mar.1986)
 ● Expansion (2×250MW(First Unit: Mar.2014, Second unit : FY 2014) ※ TN(Total Unit) : 230MW

[Mettur]
 ○ Unit 1 (210MW: Jan.1987)
 ○ Unit 2 (210MW: Dec.1987)
 ○ Unit 3 (210MW: Mar.1989)
 ○ Unit 4 (210MW: Mar.1990)
 ○ Stage 3 (600MW: Oct.2013)

[Tuticorin]
 ○ Unit 1 (210MW: July.1979)
 ○ Unit 2 (210MW: Dec.1980)
 ○ Unit 3 (210MW: April.1982)
 ○ Unit 4 (210MW: Feb.1992)
 ○ Unit 5 (210MW: Mar.1991)
 ※ NLC(Central G)-JV/TNEB
 ● Unit 1 (500MW(194MW) : Oct.2014)
 ● Unit 2 (500MW(193MW)) : Mar.2015)

[Kudankulam] ※ NPCIL(Central G)
 ■ Unit 1 (1000MW: Oct.2014 onward)
 ■ Unit 2 (1000MW: Dec.2014)
 ※ Share of TN(Unit total): 1025MW
 ■ Unit3~6 (4×1000MW: TBD)

[Cheyyur] ※ Central G Project
 ● Unit 1~5(5×800MW FY 2019)
 ※ Share of TN (Total Unit) :1600MW

[North Chennai]
 ○ Unit 1 (210MW: Oct. 1994)
 ○ Unit 2 (210MW: Mar.1995)
 ○ Unit 3 (210MW: Feb. 1996)
 ○ Stage 2 Unit 1 (600MW: Mar.2014)
 ○ Stage 2 Unit 2 (600MW: May.2014)
 ● Stage 3 (800MW: FY2019)

[Ennore]
 ○ Unit 1 (60MW: Mar.1970)
 ○ Unit 2 (60MW: Feb.1971)
 ○ Unit 3 (110MW: May.1972)
 ○ Unit 4 (110MW: May.1973)
 ○ Unit 5 (110MW: Dec. 1975)
 ● Expansion (660MW: 2017)
 ● Replacement (660MW: FY2019)
 ※ Ennore SEZ
 ● Unit 1 and 2 (2×660MW: FY2019)

[Basin Bridge] △ 4 Units (4×30MW: 1996)

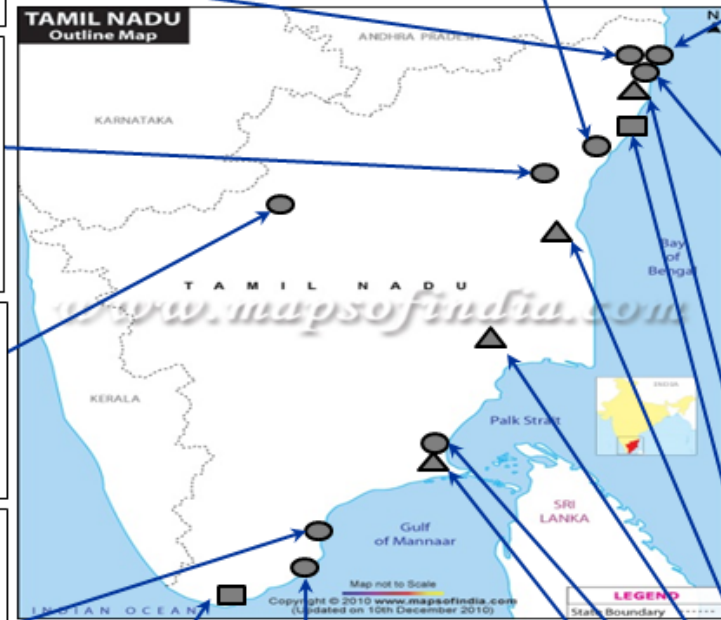
[Kalpakkam] ※ MAPS(Central G)
 □ Unit 1 (220MW: Jan.1984)
 □ Unit 2 (220MW: Mar.1986)
 ※ TN(Total Unit) : 331MW

[Kuttalam] △ 1 Unit (101MW: 2003)

[Thirumakkottai (Kovilkalappal)]
 △ Unit 1(107.88MW: 2001)

[Uppur] ● Unit 1&2 (2×800MW: FY2019)

[Valuthur] △ Phase 1 (95MW: 2003)
 △ Phase 2 (92.2MW: 2008)



[Udangudi]
 ● Unit 1&2 (2×660MW: FY2018)
 ● Expansion (2×660MW: TBD)
 ● Unit 3 (2×660MW: TBD)

○ : coal-fired, △ : Gas-fired, □ : Nuclear
 BLUE: FY2014 in-service(Plan)
 RED: Planned in 2015 and onward

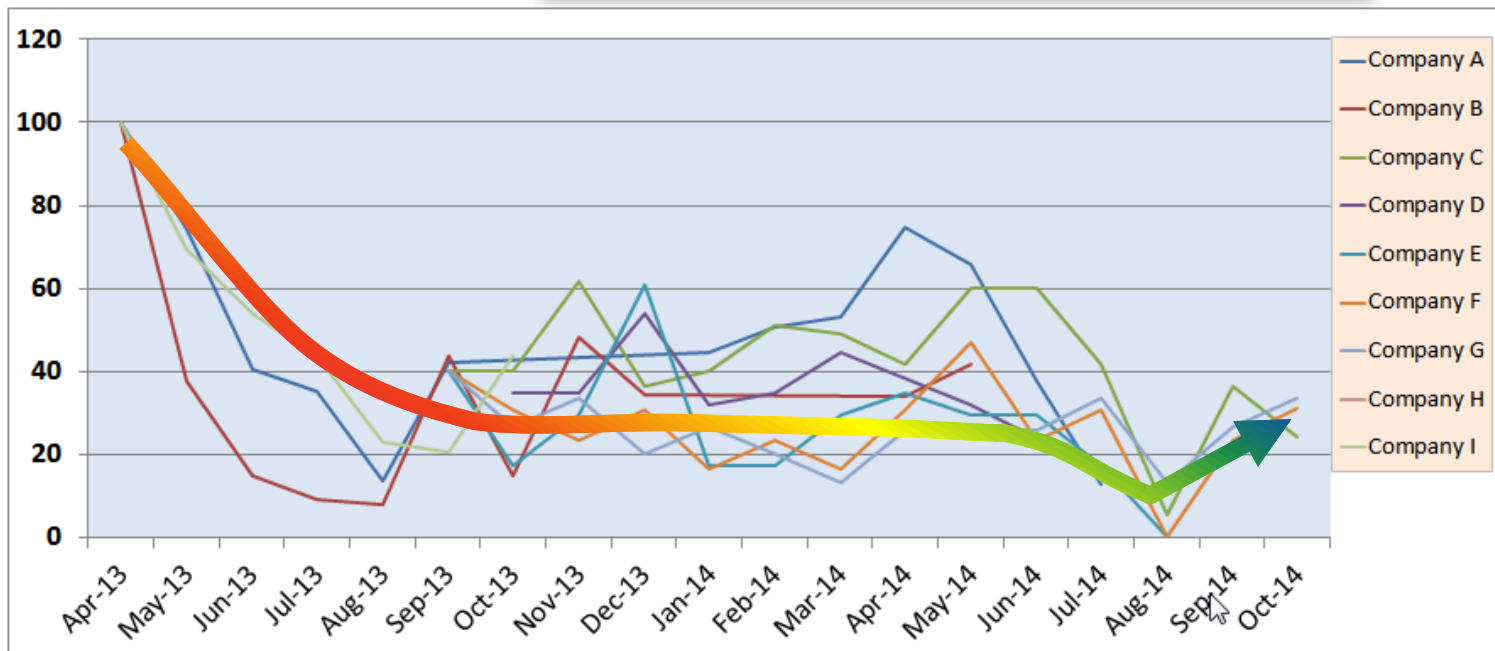
(*) Only Projects by Central and State Government are listed, not by private enterprise.
 (**) Figures in brackets for central government projects indicate quantum of power (in MW) allocated to TN State.
 (***) Regarding central government projects, thermal and nuclear power plants within TN states is plotted. (Any power received outside of the states is omitted). Also, plants commissioned by NTPC(Total generating capacity of 2600MW) does not show in the map since the plant was not clear.
 (Data : Compiled by JETRO based on data published by TN State, NPCIL and NTPC)

Proposal of Electricity Improvement

Graph 1) Trend of Power Cut

Apr 2013--Oct 2014

Power Cut Frequency
(100 at Apr 2013)



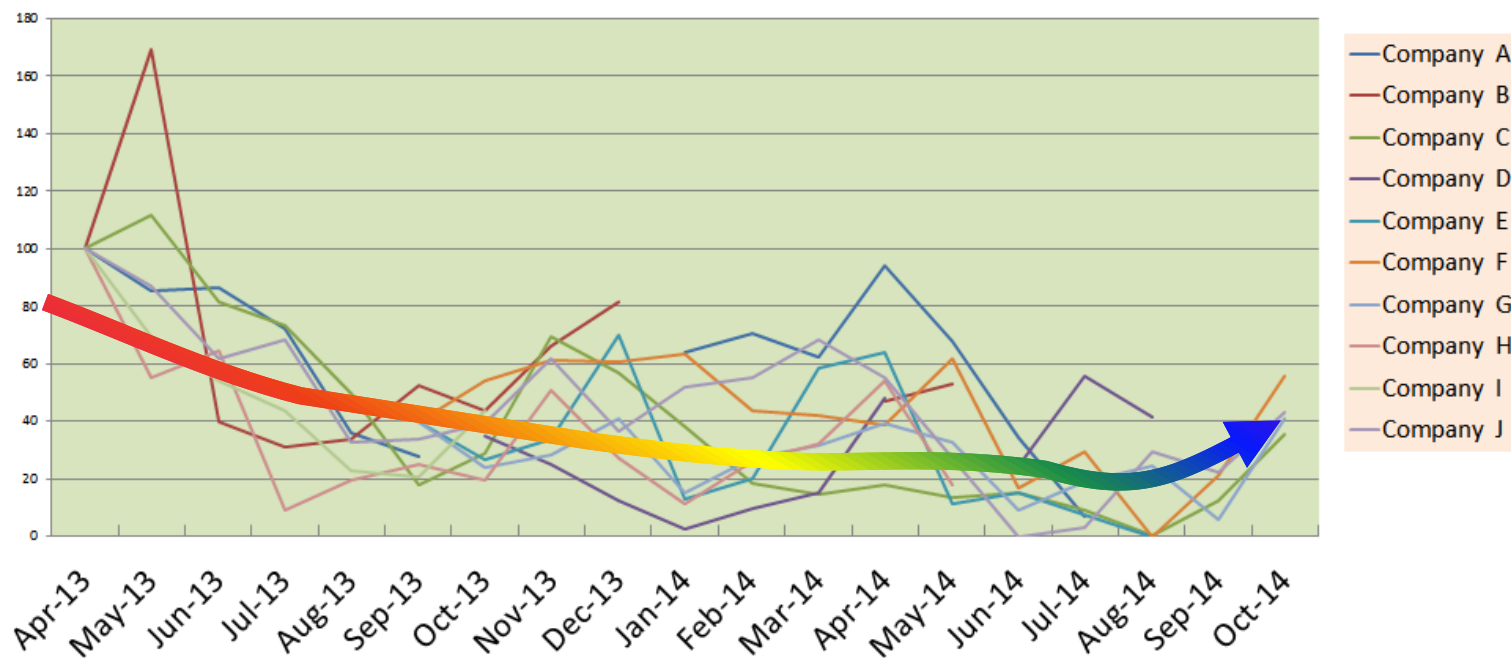
Condition of Power Cut was improved from 2013 April. However, power restriction started again from 24 Sep. We are focusing on when it will be eliminated and would like to request Go TN to disclose the background of it.

Proposal of Electricity Improvement

Graph 2) Trend of Power Outage

Apr 2013--Oct 2014

DG Power
(100 at Apr 2013)



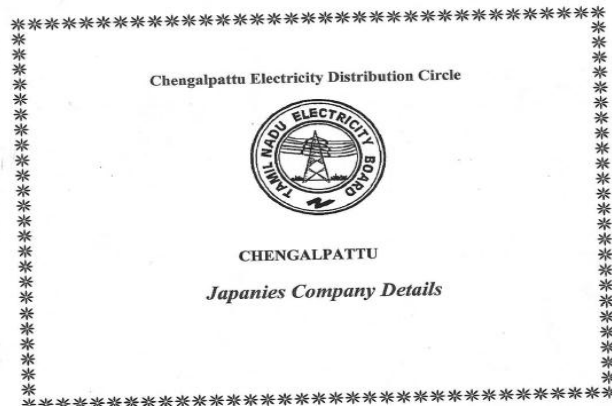
Operating DG costs approx. 3 times as EB charge. It's imposing a heavy burden on manufacturers.

Proposal for Electricity Improvement

Agenda 2. Proposal of the meeting with TNEB

TNEB Study on Japanese Company

The list submitted to TANTRANSCO in December, 2013



Chengalpattu Electricity Distribution Circle
DETAILS OF JAPANIES COMPANY AVAILABLE

Sl No.	Name of the Service	Address	Business	Year of Establishment	Capital	Turnover	Production	Export	Import	Remarks
1	1474 Nichias India Ltd									
2	1475 Jai Uhsain									
3	1476 Katsushiro Martex India Pvt									
4	1477 Rieter Nittoku Automotive Sound Proof Pvt Ltd									
5	1478 Kosei Minda Aluminium Co									
6	1479 Komatsu India Pvt Ltd									
7	1480 Unipres India Pvt. Ltd.									
8	1481 Renault Nissan Automotive India Pvt. Ltd.									
9	1482 India Japan Lighting Pvt. Ltd.									
10	1483 Shin-Etsu Polymer India Pvt. Ltd.									
11	1484 YOROZU JBM AUTOMOTIVE PVT LTD.,									
12	1485 TOSHIBA JSW TURBINE & GENERATOR PVT.LTD.									
13	1486 Panasonic Appliances India Company Ltd.									
14	1487 BBL DAIDO Pvt, Ltd									
15	1488 TAKATA INDIA PVT.LTD.									
16	1489 NSK-ABC BEARINGS LTD.									

Japanese Company List of JCCIC / Load Shedding Study / The 1st Group

SI No.	HT Service Connecting No.	Company Name
1	654	Nichias Industrial Products Pvt. Ltd.
2	619	Jai Uhsain
3	862	Katsushiro Martex India Pvt. Ltd.
4	790	Rieter Nittoku Automotive Sound Proof Products India Pvt. Ltd.
5	965	Kosei Minda Aluminium Co.Ltd.
6	661	Komatsu India Pvt. Ltd.
7	780	Unipres India Pvt. Ltd.
8	759	Renault Nissan Automotive India Pvt. Ltd.
9	275	India Japan Lighting Pvt. Ltd.
10	715	Shin-Etsu Polymer India Pvt. Ltd.
11	904	YOROZU JBM AUTOMOTIVE TAMIL NADU PVT LTD.,
12	1941	TOSHIBA JSW TURBINE & GENERATOR PVT.LTD.
13	1497	Panasonic Appliances India Company Ltd.
14	393	BBL DAIDO Pvt, Ltd
15	778	TAKATA INDIA PVT.LTD.
16	662	NSK-ABC BEARINGS LTD.

JCCIC members would like to have a one-to-one meeting with TNEB / TANGEDCO / TANTRANSCO, so that specific technical issues could be resolved

Conclusion

1. Periodical Disclosure of Power Plant expansion , progress of construction and other sources

Knowing the current and future power availability is very important for planning any expansion or fresh investments into the state by companies. Therefore, JCCIC requests the State Government to share future generation plans and its progress on a quarterly basis with JCCIC.

2. Elimination of power restriction

JCCIC would like to know when the power restriction will be eliminated.

3. One-to-one meeting with TNEB / TANGEDCO / TANTRANSCO

JCCIC members would like to have a one-to-one meeting with TNEB / TANGEDCO / TANTRANSCO, so that specific technical issues could be resolved. JCCIC kindly requests TN government to appoint the counter person with whom JCCIC members can consult through JCCIC.