



प्रणाली प्रचालन विवरण SYSTEM OPERATION REPORT

मार्च 2014
MARCH 2014

दक्षिण क्षेत्रीय भार प्रेषण केन्द्र
बेंगलूर

**SOUTHERN REGIONAL LOAD DESPATCH CENTRE
BANGALORE**

CONTENTS

		PAGE No.
A	SUMMARY REPORT	
I	IMPORTANT EVENTS	1
	a) COMMISSIONING OF NEW GENERATING UNITS	
	b) COMMISSIONING OF NEW TRANSMISSION LINES	
	c) COMMISSIONING OF NEW SUB-STATIONS	
	d) MAJOR PROBLEMS / CONSTRAINTS	
II	SCHEDULE Vs DRAWAL	2
III	INTER REGIONAL EXCHANGES	2
IV	FREQUENCY PROFILE	3
V	POWER SUPPLY POSITION	3
B	DETAILED REPORTS	
I	INSTALLED CAPACITY GENERATION ADDITION	4
II	SALIENT FEATURES OF SYSTEM CONDITION	4
III	VOLTAGE PROFILE	4
IV	PERFORMANCE OF CONSTITUENTS	5 - 8
V	RESERVOIR PARTICULARS	9
VI	BRIEF DISCRIPTION OF DISTURBANCES	9
VII	PROGRESS OF SHUNT CAPACITORS	9
	FREQUENCY PROFILE CURVE	10
	DAILY FREQUENCY VARIATION INDEX OF THE MONTH	11
	REGIONAL AVAILABILITY CURVE	12
	REGIONAL GENERATION/LOAD CURVE FOR PEAK DEMAND DAY	13
	REGIONAL GENERATION/LOAD CURVE FOR MINIMUM DEMAND DAY	14
	STATEWISE GENERATION/LOAD CURVE FOR PEAK DEMAND DAY	15
	STATEWISE GENERATION/LOAD CURVE FOR MINIMUM DEMAND DAY	16
	FLOW CHART OF ENERGY EXCHANGES	17
	PROGRESS OF NEW GENERATING STATIONS	18 - 21

**SYSTEM OPERATION REPORT OF SOUTHERN REGION
FOR THE MONTH OF MARCH 2014**

A)SUMMARY REPORT

I)IMPORTANT EVENTS

a)COMMISSIONING OF NEW GENERATING UNITS

SL.NO.	STATE/CGS	STATION NAME	CAPACITY (MW)	TYPE	DATE
1	TAMIL NADU	NORTH CHENNAI ST-II UNIT -1	600.000	THERMAL	30-03-2014
2	IPP (TAMIL NADU)	TIRUNELVELI & UDUMALPET	17.000	WIND	31-03-2014

* Data Received late from States

b)COMMISSIONING OF NEW TRANSMISSION LINES

SL.NO.	CONSTITUENT	LINE NAME & CKT NO.	KV	LENGTH (km)	DATE
1	POWERGRID	LILO OF N'SAGAR GOTTU LINE AT KURNOOL	400	71.09	31-03-2014
2	POWERGRID	CHITTOOR - THIRUVALEM - 1	400	21.002	31-03-2014
3	POWERGRID	CHITTOOR - THIRUVALEM - 2	400	21.002	31-03-2014
4	APTRANSCO	KURNOOL NEW - KURNOOL	400		31-03-2014

c)COMMISSIONING OF NEW SUBSTATIONS

SL.NO.	CONSTITUENT	STATION NAME	KV RATIO	CAPACITY (MVA)	DATE
1	POWERGRID	KURNOOL NEW -1	765/400	1500	31-03-2014
2	POWERGRID	KURNOOL NEW -2	765/400	1500	31-03-2014

d)COMMISSIONING OF NEW LINE / BUS REACTORS

SL.NO.	CONSTITUENT	STATION NAME	BUS/LINE	CAPACITY (MVAR)	DATE
1	POWERGRID	KURNOOL NEW	BUS	240	31-03-2014
2	POWERGRID	THIRUVALEM	BUS	63	31-03-2014

d) Major problem/constraints affecting Grid operation including major Grid disturbances

NIL

i) Grid Separations

NIL

ii) Grid Disturbances

NIL

II)Schedule Vs Drawal of all Constituents for the month (MU's)

STATE	SCHEDULE	DRAWAL	VARIATION
APTRANSCO	2902.87	3027.47	124.60
KPTCL	698.21	732.00	33.79
KSEB	971.22	1020.45	49.23
TNEB	2842.00	2859.49	17.49
PONDY	193.88	191.53	-2.35
GOA	65.38	60.32	-5.06

III) Inter/Intra Regional exchanges in MU's

SCHEDULED INTER REGIONAL AND INTRA REGIONAL EXCHANGES OF POWER DURING MARCH 2013						
TRADER	EXPORTING FROM		IMPORTING TO		WHEELED THROUGH	Total Energy Flow (MU)
	STATE	UTILITY	STATE	UTILITY		
MSUGARLT	KPTCL	GMSUGAR	APTRANSCO	APPCC	INTRA REGIONAL	2.880
GODBIOREF	KPTCL	GODBIOREF	APTRANSCO	APPCC	INTRA REGIONAL	18.581
INDIASUGAR	KPTCL	INDIASUGAR	APTRANSCO	APPCC	INTRA REGIONAL	3.348
JKCEMENT	KPTCL	JKCEMENT	APTRANSCO	APPCC	INTRA REGIONAL	8.928
JSWPTC	KPTCL	JSWEL	APTRANSCO	APPCC	INTRA REGIONAL	221.950
JSWPTC	KPTCL	JSWEL	KSEB	-----	INTRA REGIONAL	95.932
JSWPTC	KPTCL	JSWEL	TNEB	JSWSMETTUR	INTRA REGIONAL	0.907
JSWPTC	KPTCL	RENUSUGHAV	KSEB	-----	INTRA REGIONAL	6.395

SCHEDULED INTER REGIONAL AND INTRA REGIONAL EXCHANGES OF POWER DURING MARCH 2013						
TRADER	EXPORTING FROM		IMPORTING TO		WHEELED THROUGH	Total Energy Flow (MU)
	STATE	UTILITY	STATE	UTILITY		
JSWPTC	KPTCL	SRSL(MUNOLI	KSEB	-----	INTRA REGIONAL	6.395
KOGANPOWER	KPTCL	KOGANPOWER	KSEB	-----	INTRA REGIONAL	2.326
KPRMILL	KPTCL	KPRSUGAR	TNEB	KPRARASUR	INTRA REGIONAL	2.080
KPRMILL	KPTCL	KPRSUGAR	TNEB	KPRMILLS	INTRA REGIONAL	3.131
KPRMILL	KPTCL	KPRSUGAR	TNEB	KPRNBR	INTRA REGIONAL	0.992
KPRMILL	KPTCL	KPRSUGAR	TNEB	KPRSATHY	INTRA REGIONAL	0.822
KSEBSBUD	KSEB	BSEKERALA	TNEB	TANGEDCO	INTRA REGIONAL	93.308
KSEBSBUD	KSEB	RGCCPP	TNEB	TANGEDCO	INTRA REGIONAL	195.399
MITTAL	KPTCL	CHAMSUGAR	KSEB	-----	INTRA REGIONAL	3.025
MITTAL	KPTCL	HKMETALIC	APTRANSCO	APPCC	INTRA REGIONAL	2.083
MITTAL	KPTCL	JSWEL	KSEB	-----	INTRA REGIONAL	4.569
MITTAL	KPTCL	SIVAKASHI	APTRANSCO	APPCC	INTRA REGIONAL	6.696
NSSKN	KPTCL	NANDI	KSEB	-----	INTRA REGIONAL	3.286
NVVN	KPTCL	BMMISPAT	APTRANSCO	APPCC	INTRA REGIONAL	18.600
NVVN	KPTCL	BMMISPAT	KSEB	-----	INTRA REGIONAL	12.084
PTC	APTRANSCO	NBPALONCHA	KSEB	-----	INTRA REGIONAL	7.742
PTC	KPTCL	BANNARISUG	KSEB	-----	INTRA REGIONAL	8.239
PTC	KPTCL	GEMSUGAR	APTRANSCO	APCPDCL	INTRA REGIONAL	1.392
PTC	KPTCL	ILCIRON	APTRANSCO	APCPDCL	INTRA REGIONAL	2.088
PTC	KPTCL	ILCIRON	KSEB	-----	INTRA REGIONAL	2.682
PTC	KPTCL	KPRSUGAR	APTRANSCO	APCPDCL	INTRA REGIONAL	1.392
PTC	KPTCL	SIL	APTRANSCO	APCPDCL	INTRA REGIONAL	20.736
RETL	KPTCL	SHAMNSUGAR	APTRANSCO	APPCC	INTRA REGIONAL	3.780
SDKCHIKOD	KPTCL	DKSSKN	APTRANSCO	APPCC	INTRA REGIONAL	7.440
SHIRASUGAR	KPTCL	SHIRASUGAR	KSEB	-----	INTRA REGIONAL	5.445
TATA	APTRANSCO	NBVLAP	KSEB	-----	INTRA REGIONAL	6.566
TATA	KPTCL	EIDPARRY	KSEB	-----	INTRA REGIONAL	7.029
TATA	KPTCL	HIMATSINGKA	APTRANSCO	APPCC	INTRA REGIONAL	1.056
TATA	KPTCL	SADASIVSUG	APTRANSCO	APPCC	INTRA REGIONAL	6.101
TATA	KPTCL	STARMETAL	KSEB	-----	INTRA REGIONAL	9.688
TATA	KPTCL	UGARBELGAM	APTRANSCO	APPCC	INTRA REGIONAL	11.160
TATA	KPTCL	UGARGULBARG	KSEB	-----	INTRA REGIONAL	3.195
VASAVACEM	KPTCL	VASAVACEM	KSEB	-----	INTRA REGIONAL	5.539
PTC	SR	MEENAKSHI	APTRANSCO	APCPDCL	INTRA REGIONAL	119.566
PTC	SR	SIMHAPURI	APTRANSCO	APCPDCL	INTRA REGIONAL	214.527
PTC	SR	SIMHAPURI	KSEB	-----	INTRA REGIONAL	16.884
POWER EXCHANGES						
IEX	IEX		APTRANSCO		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	196.756
IEX	IEX		KPTCL		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	19.878
IEX	IEX		KSEB		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	0.000
IEX	IEX		TNEB		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	0.000
IEX	IEX		SIMHAPURI		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	0.000
IEX	APTRANSCO		IEX		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	29.361
IEX	KPTCL		IEX		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	86.890

SCHEDULED INTER REGIONAL AND INTRA REGIONAL EXCHANGES OF POWER DURING MARCH 2013						
TRADER	EXPORTING FROM		IMPORTING TO		WHEELED THROUGH	Total Energy Flow (MU)
	STATE	UTILITY	STATE	UTILITY		
IEX	KSEB		IEX		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	0.000
IEX	TNEB		IEX		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	0.000
IEX	SIMHAPURI		IEX		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	7.127
IEX	MEENAKSHI		IEX		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	0.000
PXI	PXI		APTRANSCO		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	0.000
PXI	PXI		KPTCL		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	0.000
PXI	PXI		KSEB		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	0.000
PXI	PXI		TNEB		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	0.000
PXI	APTRANSCO		PXI		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	0.000
PXI	KPTCL		PXI		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	0.000
PXI	KSEB		PXI		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	0.000
PXI	TNEB		PXI		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	0.000
PXI	SIMHAPURI		PXI		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	0.000
PXI	MEENAKSHI		PXI		HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	0.000
EMCO	MSETCL	EMCO	APTRANSCO	APPCC	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	10.798
MITTAL	CSEB	CSPDCL	APTRANSCO	APPCC	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	8.636
MITTAL	HARYANA	HPPC	APTRANSCO	APPCC	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	17.298
PTC	DELHI	TATADELHI	APTRANSCO	APCPDCL	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	8.653
PTC	ORISSA	STERENERGY	APTRANSCO	APCPDCL	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	65.032
SCL	ORISSA	STERENERGY	APTRANSCO	APCPDCL	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	16.262
M T O A						
SAIL-VISL (M_12_04)	CSEB	NSPCLBHIL	KPTCL	SAIL-VISL	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	7.810
JPL (M_12_21)	WR	JINDALPOW	TNEB	TANGEDCO	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	145.683
NETS (M_12_22)	UP	LANCOANPAR	TNEB	TANGEDCO	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	72.928
PTC (M_12_24)	ORISSA	STERENERGY	KSEB	-----	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	72.748
ADANI(E) (M_12_25)	GUJARATH	APLMUNDRA3	TNEB	TANGEDCO	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	142.385
PTC (M_12_28)	CSEB	CSPTRADING	KSEB	-----	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	73.065
KSKMAHANADI (M_12_29)	CSEB	KSKMAHANADI	APTRANSCO	APCPDCL	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C/PUR	239.514

IV) a) FREQUENCY PROFILE FOR THE MONTH [Hz]

	FREQUENCY (HZ)	DATE	FVI	DATE
MAXIMUM	50.44	18-Mar-2014	0.21	18-Mar-2014
MINIMUM	49.29	12-Mar-2014	0.07	16-Mar-2014
AVERAGE	49.98		0.11	

b) FREQUENCY DISTRIBUTION FOR THE MONTH

The frequency ranges as a percentage of time during the month

%TIME FREQUENCY	<48.5	48.5 - 49	49 - 49.9	49.9 - 50.05	>50.05
% (FROM 17-02-2014)	0.00	0.00	20.28	53.85	25.88

V) POWER SUPPLY POSITION FOR THE MONTH

	AP	KAR	KER	TN	PONDY	REGION
UNRESTRICTED PEAK DEMAND(MW)	13671	9559	3575	12969	320	37831
PEAK DEMAND MET (MW)	13162	9168	3588	12650	319	36985
UNRESTRICTED ENERGY REQMT(MU)	9066	6148	2031	8640	192	26076
ENERGY MET (MU)	8353	5753	2021	8190	192	24508

B) DETAILED REPORTS.**I. Detailed State wise breakup of installed capacity (MW)**

AGENCY	HYDRO	THERMAL	GAS/DIESEL	WIND/OTHERS	NUCLEAR	TOTAL
ANDHRA PRADESH	3830.56	5092.50	272.00	3.00	---	9198.06
KARNATAKA	3669.45	2720.00	127.92	18.55	---	6535.92
KERALA	1949.90	---	234.60	2.03	---	2186.53
TAMILNADU	2221.90	4170.00	515.88	17.47	---	6925.25
PONDICHERY	---	---	32.50	---	---	32.50
CENTRAL SECTOR	---	9490.00	---	---	2320.00	11810.00
IPP	861.30	4510.00	5445.51	12463.91	---	23280.72
TOTAL	12533.11	25982.50	6628.41	12504.95	2320.00	59968.97

Note:

i). NTPC's 1000MW capacity at Simhadri, 359.58MW capacity at Kayamkulam and NLC's 600MW capacity at Neyveli Stage I are fully dedicated to Andhra Pradesh, Kerala & Tamil Nadu respectively have been included under the IPPs of respective States.

ii). Nellore TPS (1 x 30 MW) in Andhra Pradesh permanently closed from 23.04.2005.

* The Installed Capacity is reconciled with the data received from states

(II) SALIENT FEATURES OF SYSTEM CONDITIONS.

INSTALLED CAPACITY DERATED (MW)	APTRANSCO	KPTCL	KSEB	TNEB	PONDY	CENTRAL SECTOR	IPP	REGIONAL
Mar-2013	10198	6036	2546	6325	32.5	9310	20904	55352
Mar-2014	9198	6536	2187	6925	32.5	11810	23281	59970
% INCREASE (i)	-9.81	8.28	-14.10	9.48	0.00	26.85	11.37	8.34

ENERGY (GROSS) Unrestricted Requirement(MU)	APTRANSCO	KPTCL	KSEB	TNEB	PONDY	REGIONAL
Mar-2013	9694	6381	1886	8299	193	26452
Mar-2014	9066	6148	2031	8640	192	26076
Energy Availability (MU)						
Mar-2013	7717	5248	1825	6699	192	21681
Mar-2014	8353	5753	2021	8190	192	24508
Shortage(-)/ Surplus(+)						
Mar 2013 (MU) / %	-1976 (-20.4)	-1133 (-17.7)	-61 (-3.2)	-1600 (-19.3)	-1 (-0.7)	-4771 (-18.0)
Mar 2014 (MU) / %	-713 (-7.9)	-395 (-6.4)	-10 (-0.5)	-450 (-5.2)	0 (-0.1)	-1568 (-6.0)

DEMAND Unrestricted Demand (MW)	APTRANSCO	KPTCL	KSEB	TNEB	PONDY	REGIONAL
Mar-2013	13761	8985	3407	12665	320	38627
Mar-2014	13671	9559	3575	12969	320	37831
Availability (MW)						
Mar-2013	11630	8096	3237	10783	318	32428
Mar-2014	13162	9168	3588	12650	319	36985
Shortage(-)/ Surplus(+)						
Mar 2013 (MW) / %	-2131 (-15.5)	-889 (-9.9)	-170 (-5.0)	-1882 (-14.9)	-2 (-0.5)	-6199 (-16.0)
Mar 2014 (MW) / %	-509 (-3.7)	-391 (-4.1)	14 (-0.4)	-319 (-2.5)	-1 (-0.3)	-846 (-2.2)

III)VOLTAGE PROFILE**MAXIMUM AND MINIMUM VOLTAGES (KV) AND VOLTAGE RANGE (PERCENTAGE)**

STATION	MAXIMUM	MINIMUM	< 360	360 - 380	380 - 420	>420
RAMAGUNDAM	416	398	0.00	0.00	100.00	0.00
HYDERABAD	425	399	0.00	0.00	91.04	8.96
BANGALORE	412	376	0.00	3.70	96.30	0.00
MADRAS	418	394	0.00	0.00	100.00	0.00
NEYVELI	411	395	0.00	0.00	100.00	0.00

GENERATION ADDITION

SL.NO.	STATE/CGS	STATION NAME	CAPACITY (MW)	TYPE	DATE
1	TAMIL NADU	NORTH CHENNAI ST-II UNIT -1	600.000	THERMAL	20-03-2014
2	IPP (TAMIL NADU)	TIRUNELVELI & UDUMALPET	17.000	WIND	31-03-2014

IV) PERFORMANCE OF CONSTITUENTS
**ENERGY GENERATED BY GENERATING STATIONS / UNITS IN
SOUTHERN REGION DURING MARCH 2014**
ANDHRA PRADESH

SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)	ENERGY GENERATION	
			Mar-14	From 01-04-13 To 31-03-2014
HYDRO				
1	MACHKUND	3x(23+17)x70% = 84.00	24.84	284.49
2	T.B.DAM	(8x9)x80% = 57.60	10.44	143.53
3	UPPER SILERU	4x60 = 240.00	60.58	421.21
4	DONKARAYI	1x25 = 25.00	9.92	113.46
5	LOWER SILERU	4x115 = 460.00	121.06	1180.74
6	SRISAILAM RBPH	7x110 = 770.00	136.08	1388.90
7	SRISAILAM LBPH	6x150 = 900.00	111.23	1328.18
8	N'SAGAR	1x110+7x100.8 = 815.60	99.43	1354.23
9	NSR RT.CANAL.P.H	3x30 = 90.00	0.00	211.19
10	NSR LT.CANAL.P.H	2x30 = 60.00	0.00	97.23
11	NIZAMSAGAR	2x5 = 10.00	3.12	12.78
12	POCHAMPAD	4x9 = 36.00	11.39	80.92
13	PENNA AHOBILAM	2x10 = 20.00	0.83	6.89
14	SINGUR	2x7.5 = 15.00	2.24	5.14
15	JURALA	6x39 = 234.00	0.00	232.20
16	MINI HYDEL (+ APTRIPCO 1.2 MW)	13.36 = 13.36	0.00	2.09
	TOTAL	3830.56	591.15	6863.19
THERMAL				
COAL				
2	RAMAGUNDAM-B	1x62.5 = 62.50	35.74	409.23
3	KOTHAGUDEM-A	4x60 = 240.00	149.34	1443.28
4	KOTHAGUDEM-B	2x120 = 240.00	145.47	1381.56
5	KOTHAGUDEM-C	2x120 = 240.00	109.68	1119.69
6	KOTHAGUDEM-D	2x250 = 500.00	331.30	3327.01
7	KOTHAGUDEM ST VI	1x500 = 500.00	346.65	3266.31
8	VIJAYAWADA	6x210 + 1x500 = 1760.00	1196.59	11839.08
9	RAYALASEEMA	5x210 = 1050.00	654.30	6405.33
10	KAKATIYA TPP 1	1x500 = 500.00	312.94	3159.30
	TOTAL	5092.50	3282.00	32350.78
GAS/NAPTHA/DIESEL				
1	VIJESWARAM STAGE 1 (GAS)	2x33+1x34 = 100.00	66.21	129.29
2	VIJESWARAM STAGE 2 (GAS)	1x112.5+1x59.5 = 172.00	4.84	802.61
	TOTAL	272.00	71.05	931.90
WIND/SOLAR				
1	WIND	2 = 2.00	0.00	0.00
2	SOLAR JURALA	1 = 1.00	0.00	0.00
	TOTAL	3.00	0.00	0.00
IPP				
HYDRO				
1	MINI HYDRO	105.64 = 105.64	40.00	229.64
COAL				
1	SIMHADRI (AP) - NTPC	2x500 = 1000.00	679.81	6525.36
2	CAPTIVE POWER PLANTS	0 = 0.00	190.10	1982.45
GAS/NAPTHA/DIESEL				
1	JEGURUPADU (GAS)	2x45.8+1x48.9+1x75.5 = 216.82	75.23	878.91
2	GVK EXTENSION(GAS)	1x145+1x75 = 220.00	0.00	2.49
3	SPECTRUM (GAS)	1x46.8+2x46.1+1x68.88 = 208.31	99.28	988.41
4	LANCO (GAS)	2x115+1x125 = 351.49	140.86	1282.10
5	ISOLATED GAS WELL (GAS) (LVS)	27.04 = 27.04	6.00	45.00
6	RELIANCE ENERGY LTD. (GAS)	1x140+1x80 = 220.00	26.88	422.46
7	VEMAGIRI POWER GENERATION LTD.(GAS)	1x233+1x137 = 370.00	0.00	173.23
8	GAUTAMI CCPP	2x145 + 1x174 = 464.00	0.00	0.00
9	KONASEEMA CCPP	145.9911+140.0899+165 = 444.08	0.00	1.54
10	GMR (BARG)	237 = 237.00	0.00	0.00
WIND / SOLAR / OTHERS				
1	WINDMILL	428.09 = 428.09	70.39	580.90
2	SOLAR (Cuddapah, Ananthpur, MehboobNagar,Chittoor)	22.75 = 22.75	15.00	60.65
3	RCL	41 = 41.00	23.00	254.00
4	BAGASSE+BIOMASS+WASTE BASED PP+CO-GENERATION (NC)	274.8+205.25+29.25+53.76 = 563.06	268.94	2485.05
5	MINI POWER PLANTS	78.79 = 78.79	3.28	42.84
	TOTAL	4998.07	1638.77	15955.01
	TOTAL ANDHRA PRADESH	14196.130	5582.97	56100.89

Note: Simhadri (NTPC) of 1000 MW capacity Coal based plant, fully dedicated to Andhra Pradesh has been included.

KARNATAKA

SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)	ENERGY GENERATION	
			Mar-14	From 01-04-13 To 31-03-2014
HYDRO				
1	SHARAVATHI	10x103.5 = 1035.00	591.13	5300.09
2	LINGANAMAKKI.P.H.	2x27.5 = 55.00	23.15	260.90
3	JOG (MGHES)	4x21.6+4x13.2 = 139.20	32.37	240.89
4	NAGJHERI	1x135+5x150 = 885.00	383.10	2464.86
5	SUPA	2x50 = 100.00	60.36	462.93
6	VARAHI	4x115 = 460.00	138.58	1146.62
7	BHADRA POWER HOUSE	1x7+2x12.1+1x2+6 = 39.20	7.06	60.48
8	SIVANSAMUDRAM	6x3+4x6 = 42.00	12.50	187.03
9	SHIMSHA	2x8.6 = 17.20	5.57	67.42
10	MUNIRABAD	1x10 + 3x9 = 28.00	0.16	92.38
11	T.B.DAM SHARE (20 %)	8x9(20%) = 14.40	3.38	37.30
12	GHATAPRABHA	2x16 = 32.00	2.20	82.10
13	MANI DAM.P.H.	2x4.5 = 9.00	3.47	33.96
14	MINI HYDRO	1.4+0.35+2.7 = 4.45	0.00	0.00
15	MALLAPUR	2x4.5 = 9.00	0.00	0.00
16	KADRA	3x50 = 150.00	33.05	285.41
17	KODASALLI	3x40 = 120.00	35.70	276.05
18	SHARAVATHI TAIL RACE	4x60 = 240.00	54.71	558.29
19	ALMATTI	1x15+5x55 = 290.00	0.00	402.79
	TOTAL	3669.45	1386.49	11959.50
THERMAL				
COAL				
1	RAICHUR.T.PS.	7x210 +1x250 = 1720.00	1015.31	9210.24
2	BELLARY TPS	2x 500 = 1000.00	634.90	5636.04
	TOTAL	2720.00	1650.21	14846.28
GAS/NAPTHA/DIESEL				
1	YELEHANKA (DIESEL)	6x21.32 = 127.92	0.00	21.02
	TOTAL	127.92	0.00	21.02
WIND				
1	KAPPATAGUDDA	4.55 = 4.55	0.47	10.68
2	SOLAR	9+5 = 14.00	1.86	17.12
	TOTAL	18.55	2.33	27.81
IPP				
HYDRO				
1	MINI HYDEL	702.66 = 702.66	0.00	0.00
COAL				
1	UPCL(THERMAL)	2x600 = 1200.00	673.36	5895.16
2	JINDAL (COAL & COREX)	2x130+4x300 = 1460.00	698.16	6896.84
GAS/NAPTHA/DIESEL				
1	TATA ELECTRIC (DIESEL)	5x16.26 = 81.30	0.00	0.00
2	RAYAL SEEMA ALKALIES (DIESEL)	3x12 = 27.80	0.00	0.00
3	I T P L (DIESEL)	9 = 9.00	0.00	0.00
WIND / SOLAR / OTHERS				
1	WIND MILL	2157.965 = 2157.97	0.00	0.00
2	CO-GENERATION	952.66 = 952.66	733.26	8263.50
3	BIO-MASS	88.5 = 88.50	0.00	0.00
	TOTAL	6679.89	2104.78	21055.51
	TOTAL KARNATAKA	13215.805	5143.81	47910.11

KERALA

SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)	ENERGY GENERATION	
			Mar-14	From 01-04-13 To 31-03-2014
HYDRO				
1	KUTTIADI + EXTENTION + ADDL. EXTN.	3x25 + 50 +50+50 = 225.00	40.93	709.58
2	SHOLAYAR	3x18 = 54.00	31.77	232.77
3	PORINGALKUTHU	4x8 = 32.00	5.12	104.74
4	PORIG. L. BANK	16 = 16.00	9.58	102.10
5	PALLIVASAL	3x7.5+3x5 = 37.50	17.62	195.55
6	SENGULAM	4x12 = 48.00	10.01	130.85
7	PANNIAR	2x16 = 32.00	13.97	146.63
8	NERIAMANGALAM + EXTENSION	3x17.5 +25 = 77.50	19.18	308.62
9	SABARIGIRI	1x60 + 4x55 = 280.00	164.28	1525.22
10	IDUKKI	3x130+3x130 = 780.00	241.85	2617.78
11	IDAMALAYAR	2x37.5 = 75.00	35.64	350.30
12	KALLADA	2x7.5 = 15.00	7.68	64.49
13	PEPPARA	3 = 3.00	0.33	6.08
14	MADUPETTY	2 = 2.00	0.64	5.75
15	MALAMPUZHA	1x2.5 = 2.50	0.00	4.96
16	L.PERIYAR	3x60 = 180.00	19.11	474.23

KERALA

SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)	ENERGY GENERATION	
			Mar-14	From 01-04-13 To 31-03-2014
HYDRO				
17	KAKKAD	2x25 = 50.00	22.20	224.02
18	CHEMBUKADAVU	1x2.7+1x3.75 = 6.45	0.00	8.71
19	URUMI	1 x 3.75 + 1 x 2.4 = 6.15	0.00	9.85
20	MALANKARA	3 x 3.5 = 10.50	2.88	27.18
21	LOWER MEENMUTTY	2x1.5 + 1x0.5 = 3.50	0.05	4.35
22	KUTTIADI TAIL RACE	3 x 1.25 = 3.75	0.53	6.83
22	POOZHITHODE	3 x 1.60 = 4.80	0.00	9.05
24	RANIPERUNADU	2 x 2 = 4.00	0.69	8.25
24	PEECHI	1 x 1.25 = 1.25	0.22	3.26
	TOTAL	1949.90	644.26	7281.16
GAS/NAPTHA/DIESEL				
1	BRAHMAPURAM DGPP (DIESEL)	5x21.32 = 106.60	0.00	29.04
2	KOZHIKODE DPP (DIESEL)	8x16 = 128.00	28.92	186.17
	TOTAL	234.60	28.92	215.21
WIND				
1	WIND MILL	2.025 = 2.03	0.09	2.07
	TOTAL	2.03	0.09	2.07
IPP				
HYDRO				
1	MANIYAR	3x4 = 12.00	2.06	33.80
2	KUTHUNGAL	3x7 = 21.00	5.94	36.96
3	ULLUNGAL	2x3.5 = 7.00	1.66	20.31
4	IRUTTUKANAM	1x3 = 3.00	0.26	19.83
5	KARIKKAYAM	2 X 5 = 10.00	1.99	17.07
GAS/NAPTHA/DIESEL				
1	RGCCPP,KAYAMKULAM (KSEB) - NTPC	2x116.6(GT)+1x126.38(ST) = 359.58	210.33	968.34
2	BSES (NAPTHA)	3x40.5(GT)+1x35.5(ST) = 157.00	97.45	338.15
3	KASARGODE (DIESEL)	3x7.31 = 21.93	0.00	0.04
4	MPS STEEL CASTINGS	1x10 = 10.00	3.43	31.86
WIND/OTHERS				
1	AGALI	31 x 0.6 = 18.60	0.72	27.85
2	RAMAKKELMEDU	19 X 0.75 = 14.25	1.16	26.68
3	PCBL Co-Generation	10 = 10.00	2.17	21.59
	TOTAL	644.36	327.18	1542.48
	TOTAL KERALA	2830.885	1000.45	9040.92

Note: RGCCPP, Kayamkulam (NTPC) of 359.58 MW capacity Naptha based plant, fully dedicated to Kerala has been included.

TAMILNADU

SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)	ENERGY GENERATION		
			Mar-14	From 01-04-13 To 31-03-2014	
HYDRO					
1	PYKARA	3x6.65+1x11+2x14 = 58.95	3.20	47.91	
2	PYKARA MICRO	1x2 = 2.00	0.73	18.88	
3	PYKARA ULTIMATE (PUSHEP)	3x50 = 150.00	41.25	307.63	
4	MOYAR	3x12 = 36.00	15.12	161.49	
5	MARAVAKANDI	1x0.75 = 0.75	0.19	20.07	
6	KUNDAH-I	3x20 = 60.00	29.69	226.06	
7	KUNDAH-II	5x35 = 175.00	66.10	575.98	
8	KUNDAH-III	3x60 = 180.00	37.46	403.01	
9	KUNDAH-IV	2x50 = 100.00	4.23	154.52	
10	KUNDAH-V	2x20 = 40.00	4.78	52.96	
11	SURULIYAR	1x35 = 35.00	4.80	98.69	
12	KADAMPARAI	4x100 = 400.00	58.35	418.06	
13	ALIYAR	1x60 = 60.00	7.85	141.20	
14	POONACHI	1x2 = 2.00	0.02	10.08	
15	METTUR DAM	4x12.5 = 50.00	3.02	101.19	
16	METTUR TUNNEL	4x50 = 200.00	0.00	333.07	
17	LOWER METTUR BARRIAGE - 1 TO 4	8x15 = 120.00	2.21	243.85	
18	BHAVANISAGAR MICRO	4x2 = 8.00	0.36	20.48	
19	PERIYAR	4x35 = 140.00	0.00	366.88	
20	VAIGAI	2x3 = 6.00	0.00	22.35	
21	PAPANASAM	4x8 = 32.00	2.18	106.82	
22	SERVALAR	1x20 = 20.00	0.12	47.47	
23	SARKARAPATHY	1x30 = 30.00	17.44	140.61	
24	SHOLAYAR	2x35+25 = 95.00	4.69	229.40	
25	KODAYAR	1x60+1x40 = 100.00	29.37	152.48	
26	LOWER BHAVANISAGAR	2X4 = 8.00	0.00	21.58	
27	SATHANUR DAM PH	1x7.5 = 7.50	0.05	1.87	
28	KUNDAH-VI (Parson Valley)	1x30 = 30.00	2.67	36.32	
29	MICRO TOTAL	0.70+1.95+2.5+4+1.3+5.25 = 15.70	0.23	12.60	
30	BHAVANI KATTALAI BARRAGE - I & II	4x15 = 60.00	0.00	128.28	
	TOTAL	2221.90	336.11	4601.80	

TAMILNADU

SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)	ENERGY GENERATION		
			Mar-14	From 01-04-13 To 31-03-2014	
THERMAL					
COAL/LIGNITE					
2	ENNORE.T.P.S	2x60+3x110 = 450.00	95.87	1096.23	
3	TUTUCORIN.T.P.S	5x210 = 1050.00	724.13	7199.40	
4	METTUR.T.P.S	4x210 + 1x600 = 1440.00	596.30	7936.15	
5	NORTH CHENNAI T.P.S	3x210 + 1x600 = 1230.00	887.66	5787.78	
	TOTAL	4170.00	2303.96	22019.56	
GAS/NAPTHA/DIESEL					
1	BASIN BRIDGE (NAPTHA)	4x30 = 120.00	0.05	0.70	
2	KOVIL KALAPPAL (GAS)	1x70+1x37.88 = 107.88	33.86	455.85	
3	VALATHUR (GAS) STG1	1x60+1x35 = 95.00	64.50	664.17	
4	VALATHUR (GAS) STG2	1 x 60 + 1 x 32 = 92.00	58.07	480.17	
5	KUTTALAM (GAS)	1x64+1x37 = 101.00	55.64	594.65	
	TOTAL	515.88	212.13	2195.53	
WIND / SOLAR					
1	TNEB WIND MILL	17.465 = 17.47	0.00	1.67	
	TOTAL	17.47	0.00	1.67	
IPP					
LIGNITE					
1	NEYVEL-I (TN) - NLC	6x50+3x100 = 600.00	393.75	3767.24	
2	ST - CMS	250 = 250.00	171.84	1565.89	
GAS/NAPTHA/DIESEL					
1	GMR POWER (DIESEL)	4x49 = 196.00	96.65	772.55	
2	SAMALPATY (DIESEL)	7x15.1 = 105.66	48.57	295.08	
3	MADURAI POWER CL (DIESEL)	106 = 106.00	52.51	343.10	
4	P P NALLUR (NAPTHA)	330.5 = 330.50	201.98	1426.82	
5	ABAN POWER (GAS)	74.41+38.81 = 113.20	63.67	656.61	
6	ARKEY ENERGY(PENNA)(GAS)	1x38 + 2x6.8 + 1x20 = 52.80	34.52	330.66	
WIND / SOLAR / OTHERS					
1	WIND MILL *	7234.445 = 7234.45	325.32	8648.42	
2	SOLAR	17.000 = 17.00	1.09	27.40	
3	CO-GENERATION	659.40 = 659.40	1161.45	10879.56	
4	BIO-MASS & CPP	177.4 = 177.40			
	TOTAL	9842.41	2551.34	28713.32	
	TOTAL TAMIL NADU	16767.65	5403.53	57531.89	

Note: Neyveli-I (NLC) of 600 MW capacity Lignite based plant, fully dedicated to Tamil Nadu has been included under Central Sector.

PONDICHERRY

SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)	ENERGY GENERATION		
			Mar-14	From 01-04-13 To 31-03-2014	
GAS/NAPTHA/DIESEL					
1	KARAIKAL POWER PLANT (GAS)	22.9 + 9.6 = 32.50	20.06	235.00	
	TOTAL	32.50	20.06	235.00	
	TOTAL PONDICHERRY	32.50	20.06	235.00	

IPP UNDER OPEN ACCESS

GAS/NAPTHA/DIESEL				
1	LANCO KONDAPPILLI POWER LTD.	233 + 133 = 366.00	0.00	0.40
2	SIMHAPURI ENERGY PVT LTD	3 x 150 = 450.00	261.77	1996.08
3	MEENAKSHI ENERGY PVT LTD	2 x 150 = 300.00	135.79	1307.69
	TOTAL	1116.00	397.56	3304.18
	TOTAL IPP UNDER OPEN ACCESS	1116.00	397.56	3304.18

CENTRAL SECTOR

SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)	ENERGY GENERATION	
			Mar-14	From 01-04-13 To 31-03-2014
THERMAL				
COAL				
1	RAMAGUNDAM T.P.S (ISGS) - NTPC	3x200+4x500 = 2600	1880.97	18223.14
2	TALCHER STAGE II (ISGS) - NTPC	4x500 = 2000	1494.63	13344.18
3	SIMHADRI STAGE - II - NTPC	2x500 = 1000	723.52	6615.34
4	VALLUR TPS - NTPC	3x500 = 1500	423.30	3505.10
LIGNITE				
5	NEYVELI-II (ISGS) - NLC	7x210 = 1470	1083.92	10231.72
6	NEYVELI TPS-I (Expansion) (ISGS) - NLC	2x210 = 420	286.11	2989.84
7	NEYVELI TPS-II (Expansion) (ISGS) - NLC	2 x 250 = 500	0.00	0.00
	TOTAL	9490.00	5892.45	54909.32
NUCLEAR				
1	M.A.P.S KALPAKAM (ISGS) - NPC	2x220 = 440.00	251.28	1988.58
2	KAIGA A.P.S (ISGS) - NPC	4x220 = 880.00	468.07	5909.15
3	KUDANKULAM A.P.S (ISGS) - NPC \$	1x1000 = 1000.00	0.00	0.00
	TOTAL	2320.00	719.34	7897.73
	TOTAL CENTRAL SECTOR	11810.00	6611.79	62807.04
	GRAND TOTAL	59968.97	24160.18	236930.03

V) RESERVOIR PARTICULARS

NAME OF RESERVOIR	STORAGE						INFLOWS (MU's)
	MDDL (M)	FRL (M)	LEVEL (M)		ENERGY (MU's)		
			As on 1 st	As on 31st	As on 1 st	As on 31st	
JALAPUT	818.39	838.40	835.35	834.10	407.00	356.00	9.84
LINGANAMAKKI	522.70	554.50	544.83	541.25	2051.00	1437.00	20.76
SUPA	495.00	564.00	550.89	546.25	2055.00	1729.00	2.64
IDDUKKI	694.90	732.40	719.32	715.74	1189.00	975.00	26.65
KAKKI	908.30	981.50	966.52	957.89	466.00	316.00	14.69
NILGIRIS	---	---	0.00	0.00	778.00	588.00	18.04

VI) BRIEF DESCRIPTION OF DISTURBANCES:-

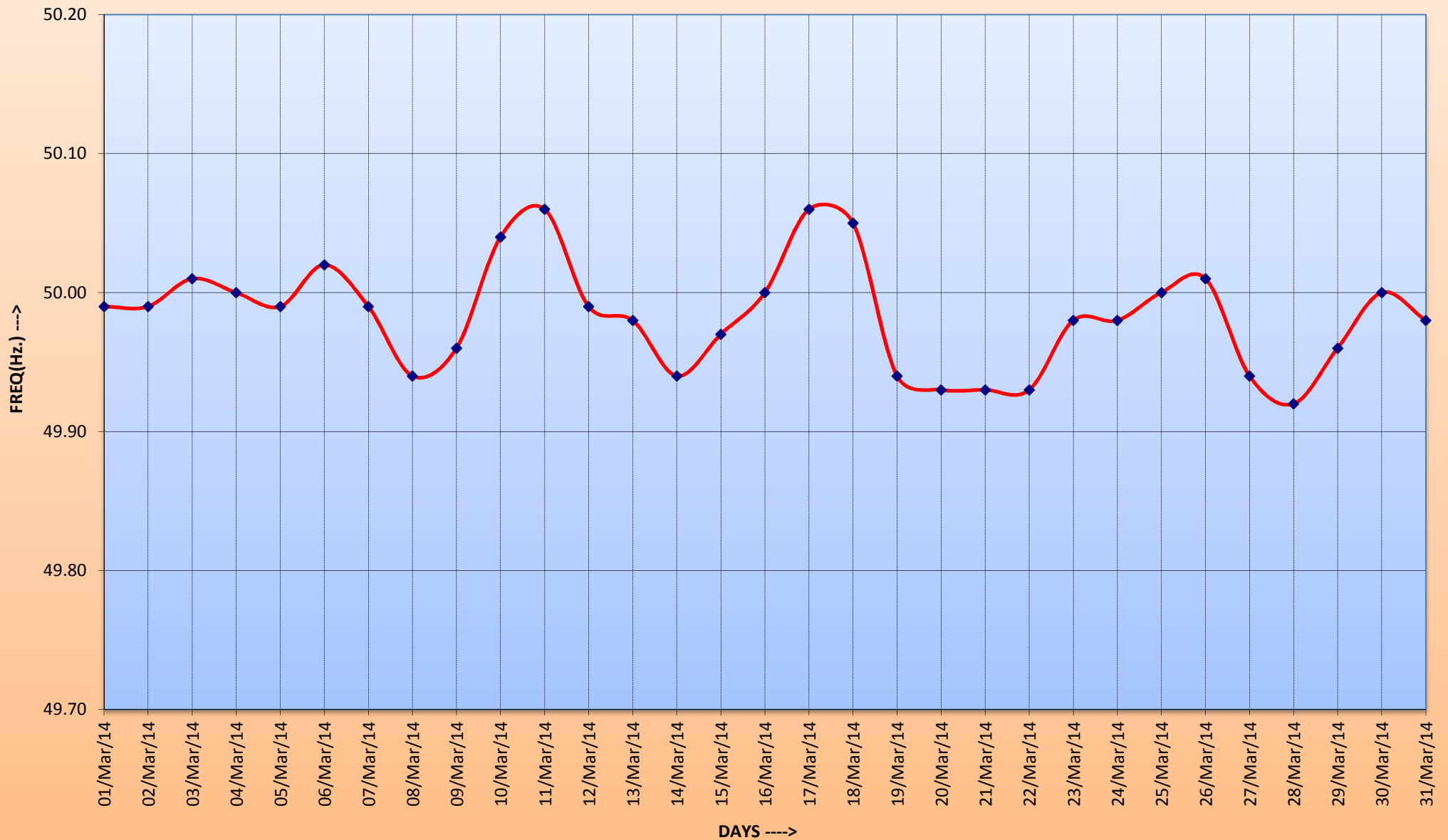
CODE	DATE	TIME OF OCCURENCE	AREAS AFFECTED	REASONS	TIME OF RESTORATION
			NIL		

VII) PROGRESS OF SHUNT CAPACITORS

STATE	Installed as on 31.03.2013	Capacitors in working condition as on 31-03-2013	*Programme of SEB's for 2013-2014	Capacitor Addition in January 2014	Capacitors installed during 2013-2014	Carry Over of 2011-2012	Decommissioned / Permanently Failed During 2013-2014	Capacitors Failed During 2013-2014	Capacitors Repaired During 2013-2014	Total Capacitors in Working Condition as on 31-01-2014	Total Commulative Installed as on 31-01-2014
APTRANSCO	6593.40	6593.40		0.00	0.00	55.00	0.00	0.00	0.00	6593.40	6593.40
KPTCL	4459.20	4459.20		0.00	0.00	53.96	0.00	0.00	0.00	4459.20	4459.20
KSEB	995.00	995.00		0.00	0.00	10.00	0.00	250.00	0.00	745.00	995.00
TNEB #	3505.01	2892.31		0.00	80.60	101.00	53.40	5.00	24.00	2857.91	3585.61
PUDUCHERY	77.02	77.02		0.00	0.00	0.00	0.00	0.00	0.00	77.02	77.02
TOTAL	15629.62	15016.92	0.00	0.00	80.60	219.96	53.40	255.00	24.00	14732.52	15710.22

* Yet to be finalised.

FREQUENCY PROFILE FOR MARCH 2013

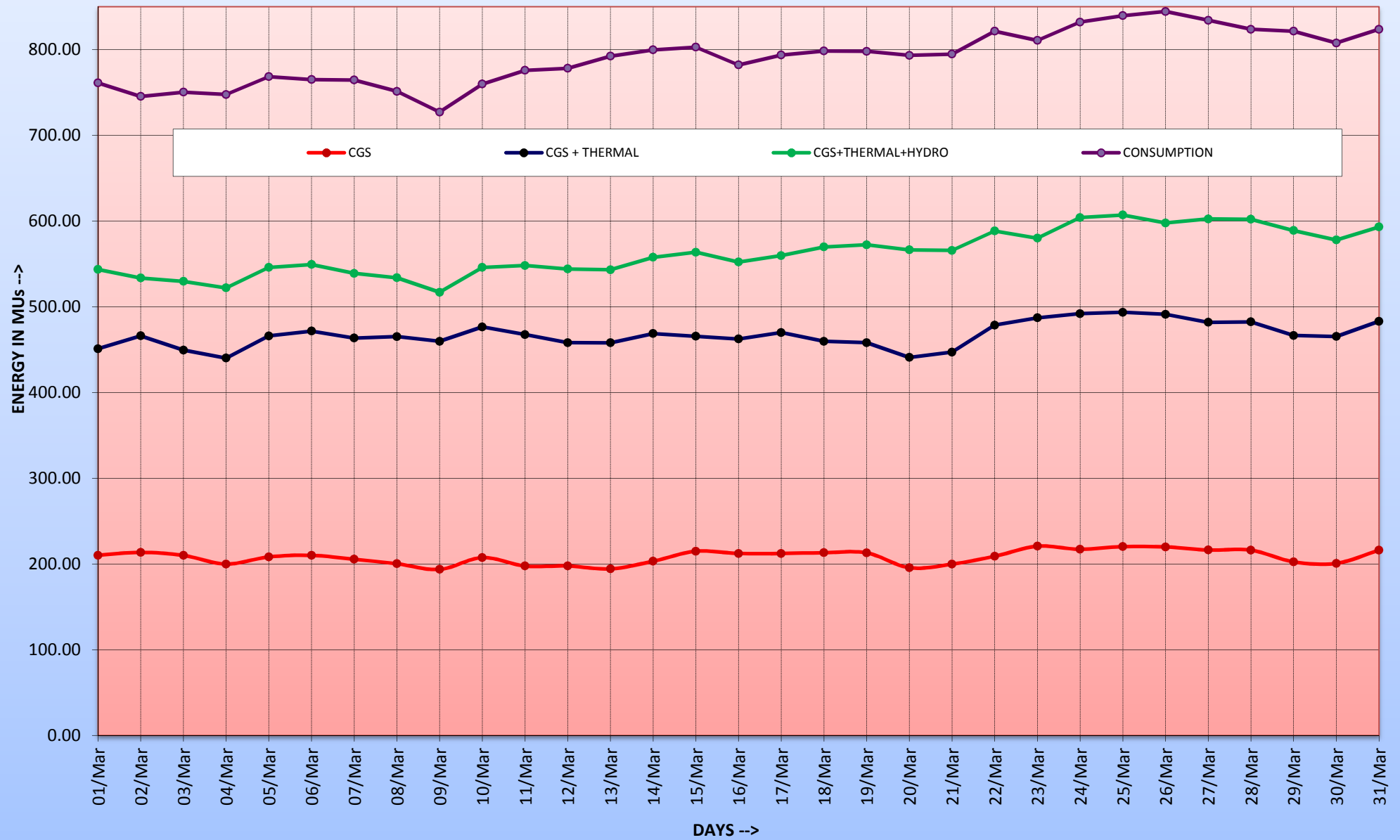


DATE	FVI
01-Mar-14	0.09
02-Mar-14	0.10
03-Mar-14	0.11
04-Mar-14	0.11
05-Mar-14	0.11
06-Mar-14	0.08
07-Mar-14	0.10
08-Mar-14	0.13
09-Mar-14	0.10
10-Mar-14	0.10
11-Mar-14	0.12
12-Mar-14	0.17
13-Mar-14	0.09
14-Mar-14	0.11
15-Mar-14	0.08
16-Mar-14	0.07
17-Mar-14	0.13
18-Mar-14	0.21
19-Mar-14	0.10
20-Mar-14	0.13
21-Mar-14	0.16
22-Mar-14	0.14
23-Mar-14	0.09
24-Mar-14	0.10
25-Mar-14	0.10
26-Mar-14	0.10
27-Mar-14	0.12
28-Mar-14	0.17
29-Mar-14	0.11
30-Mar-14	0.11
31-Mar-14	0.08
AVERAGE	0.11
MAXIMUM	0.21
MINIMUM	0.07

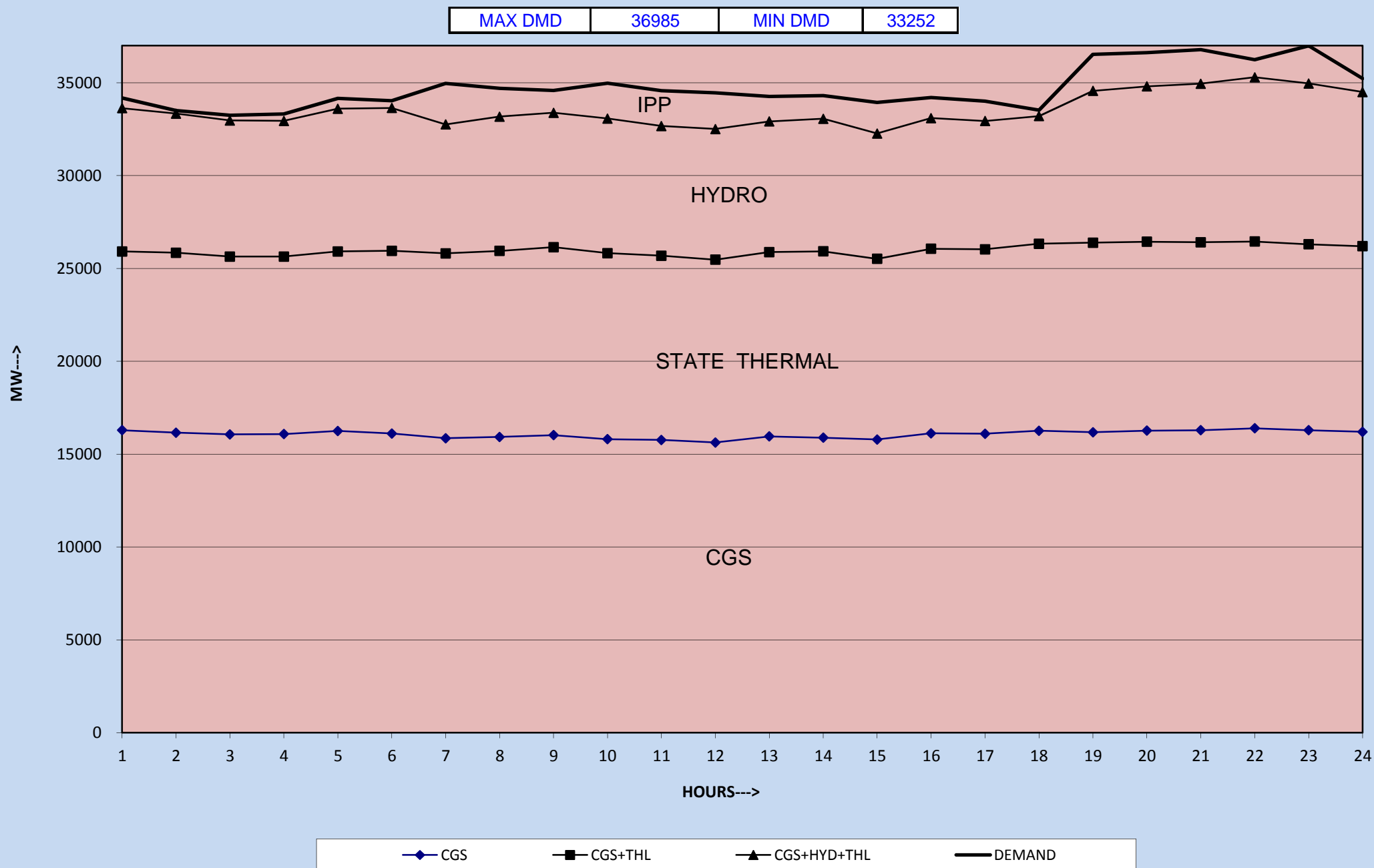
$$FVI = \frac{10 \sum (F-50)^2}{24 \times 60}$$

Note: Where F=frequency measured at one minute interval.

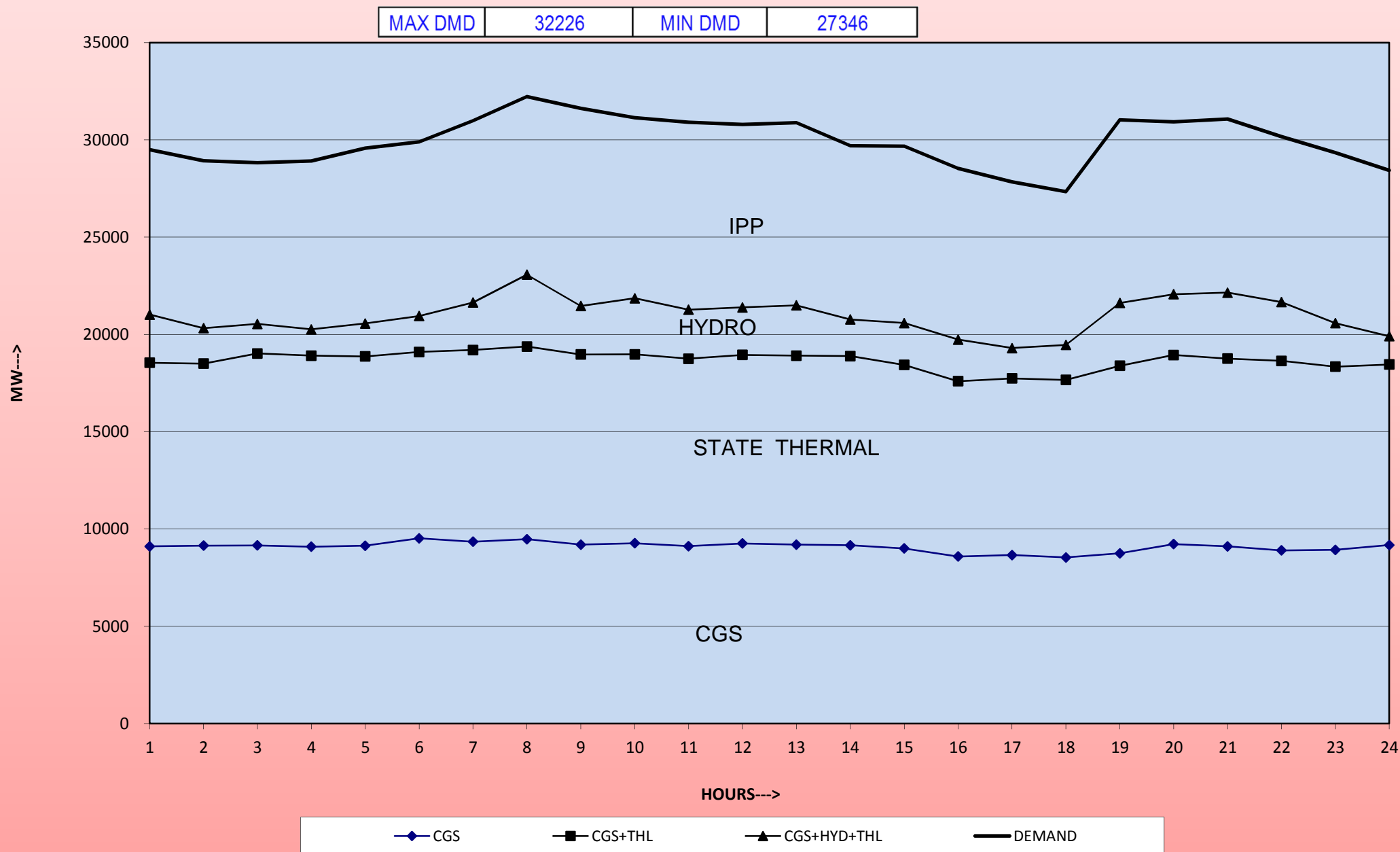
REGIONAL AVAILABILITY DURING THE MONTH OF MARCH 2013



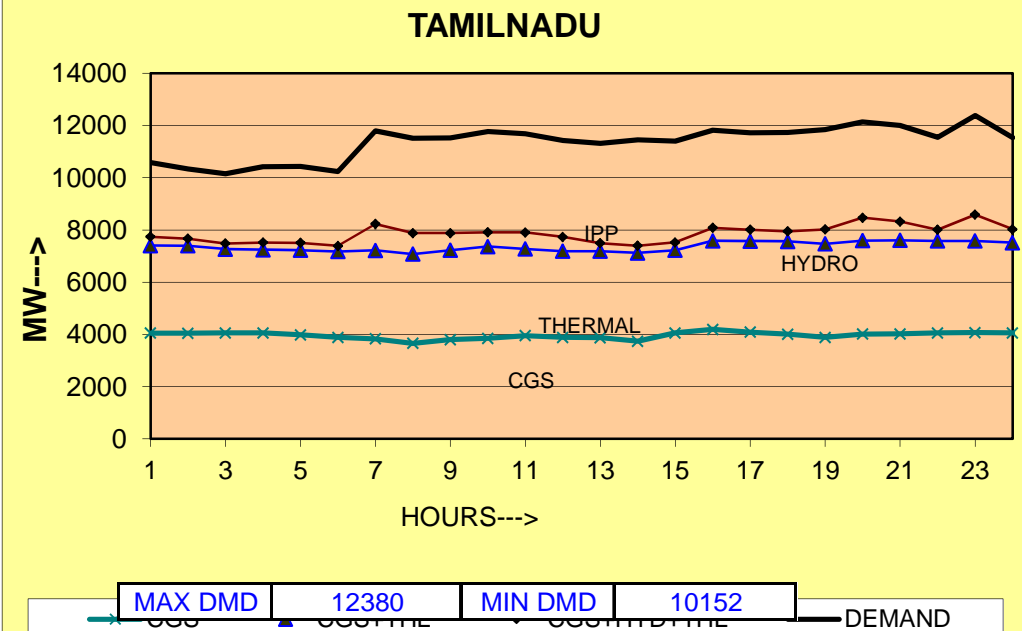
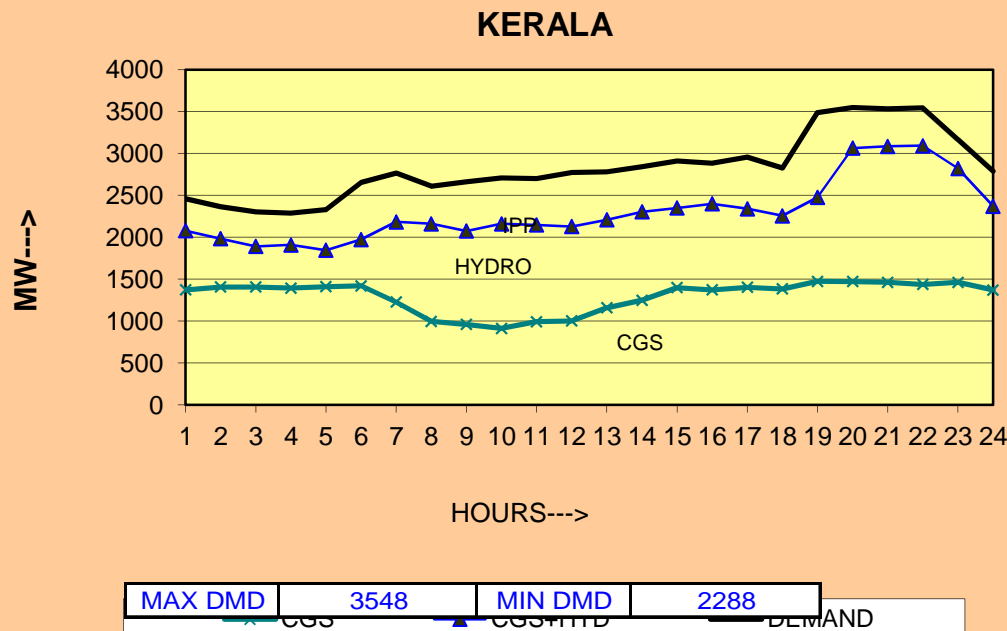
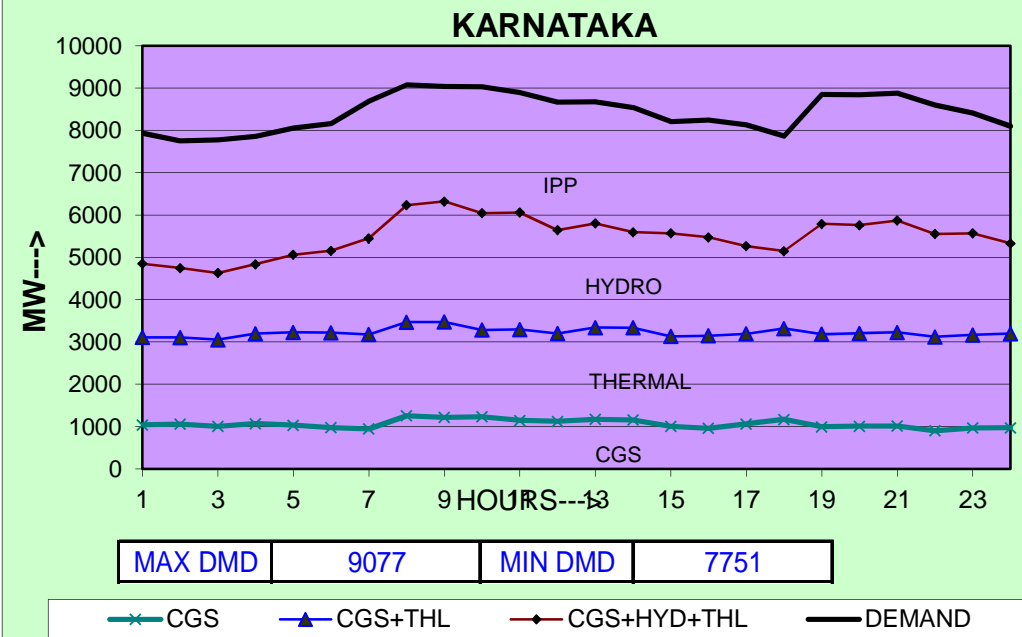
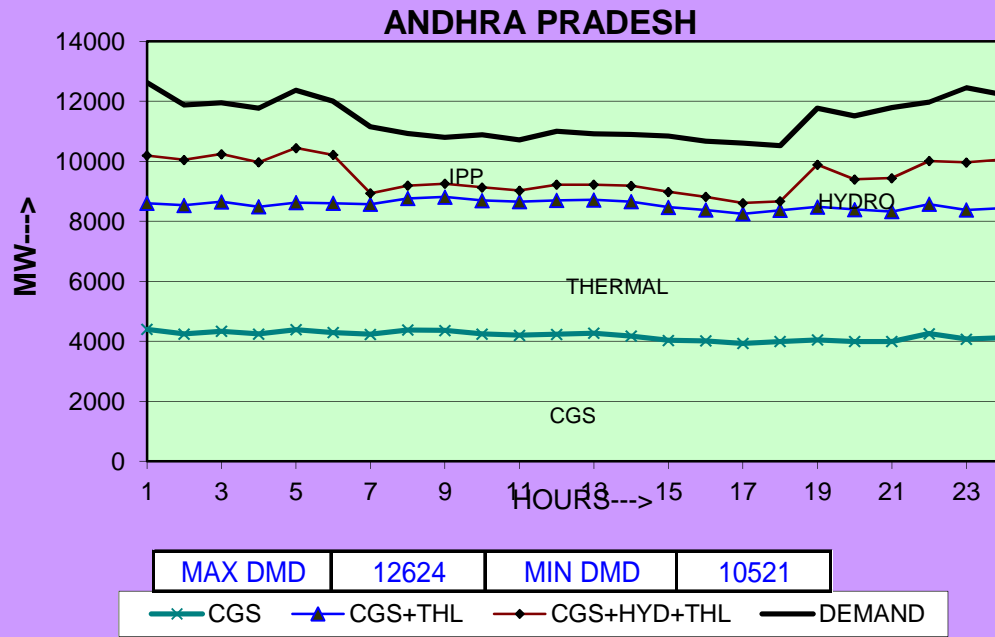
REGIONAL GENERATION AND DEMAND FOR PEAK DEMAND DAY 24.03.2014 (STACKED)



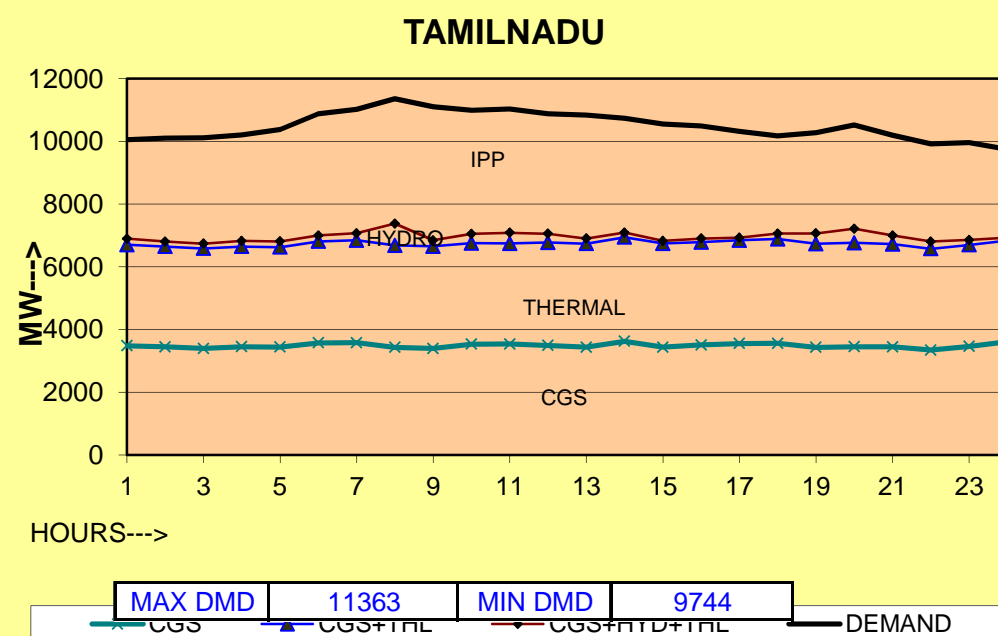
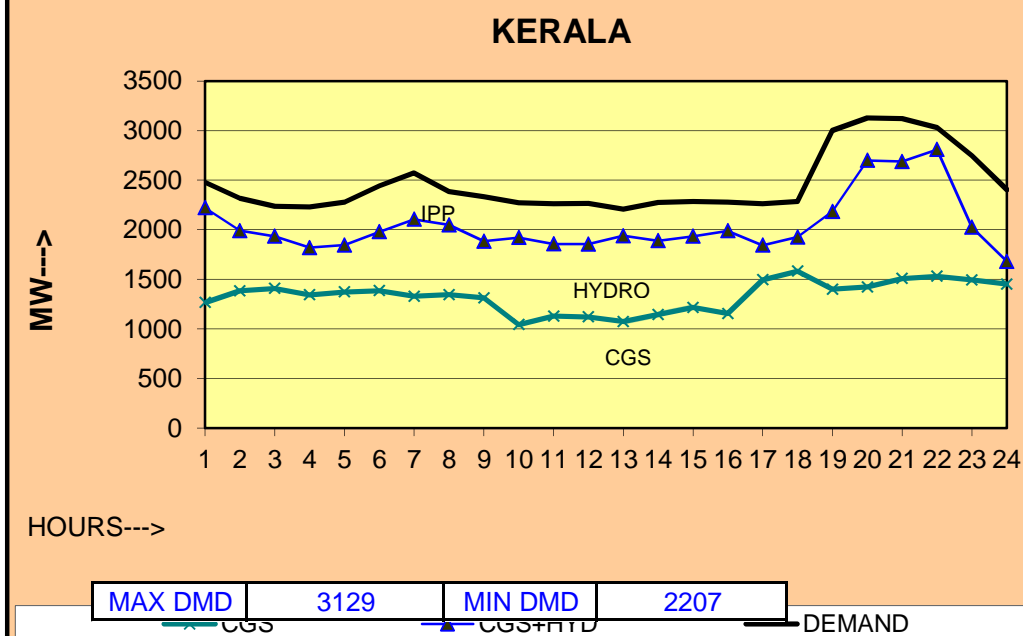
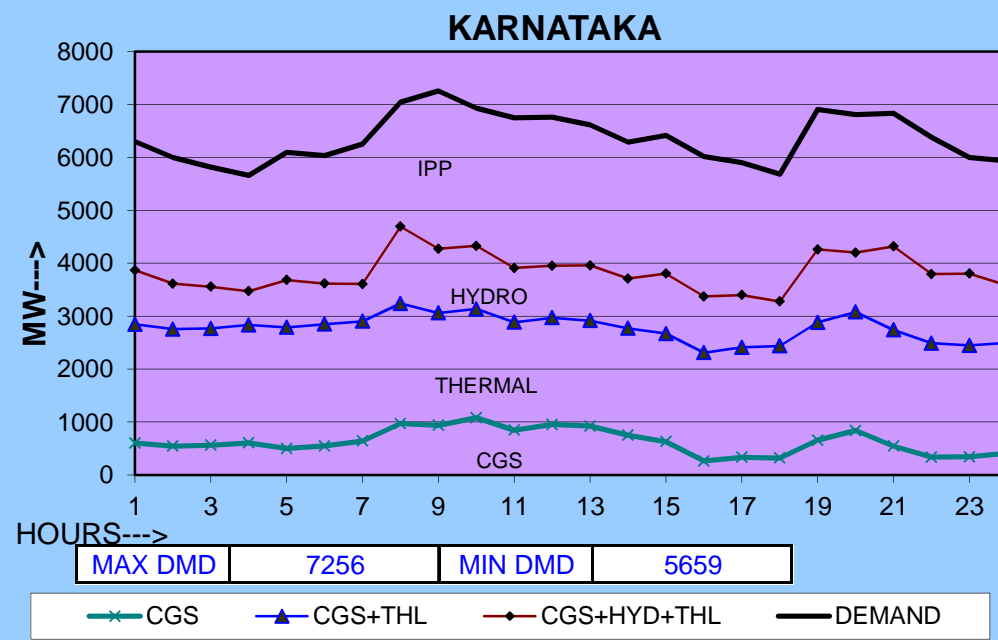
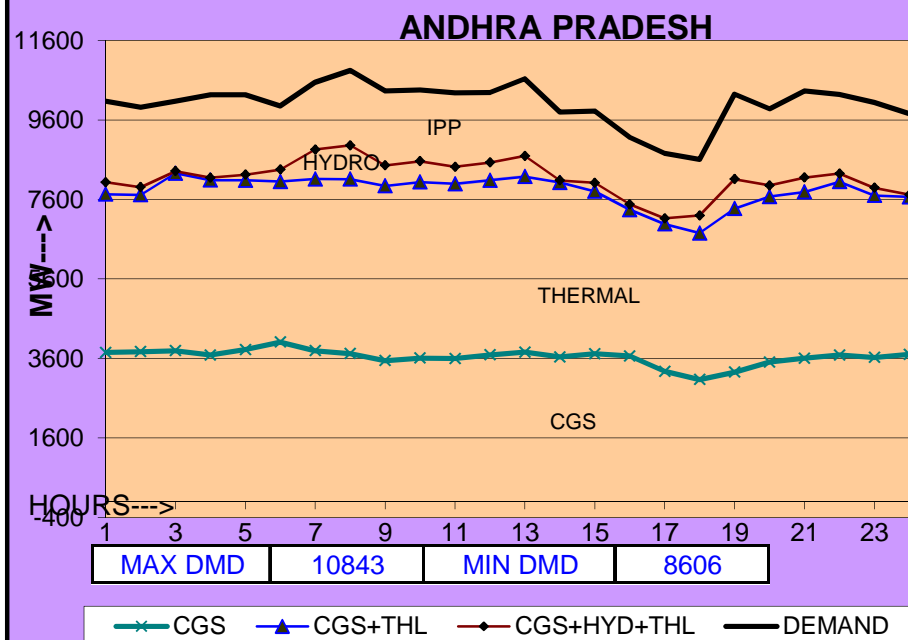
REGIONAL GENERATION AND DEMAND FOR MINIMUM DEMAND DAY 09.03.2014 (STACKED)



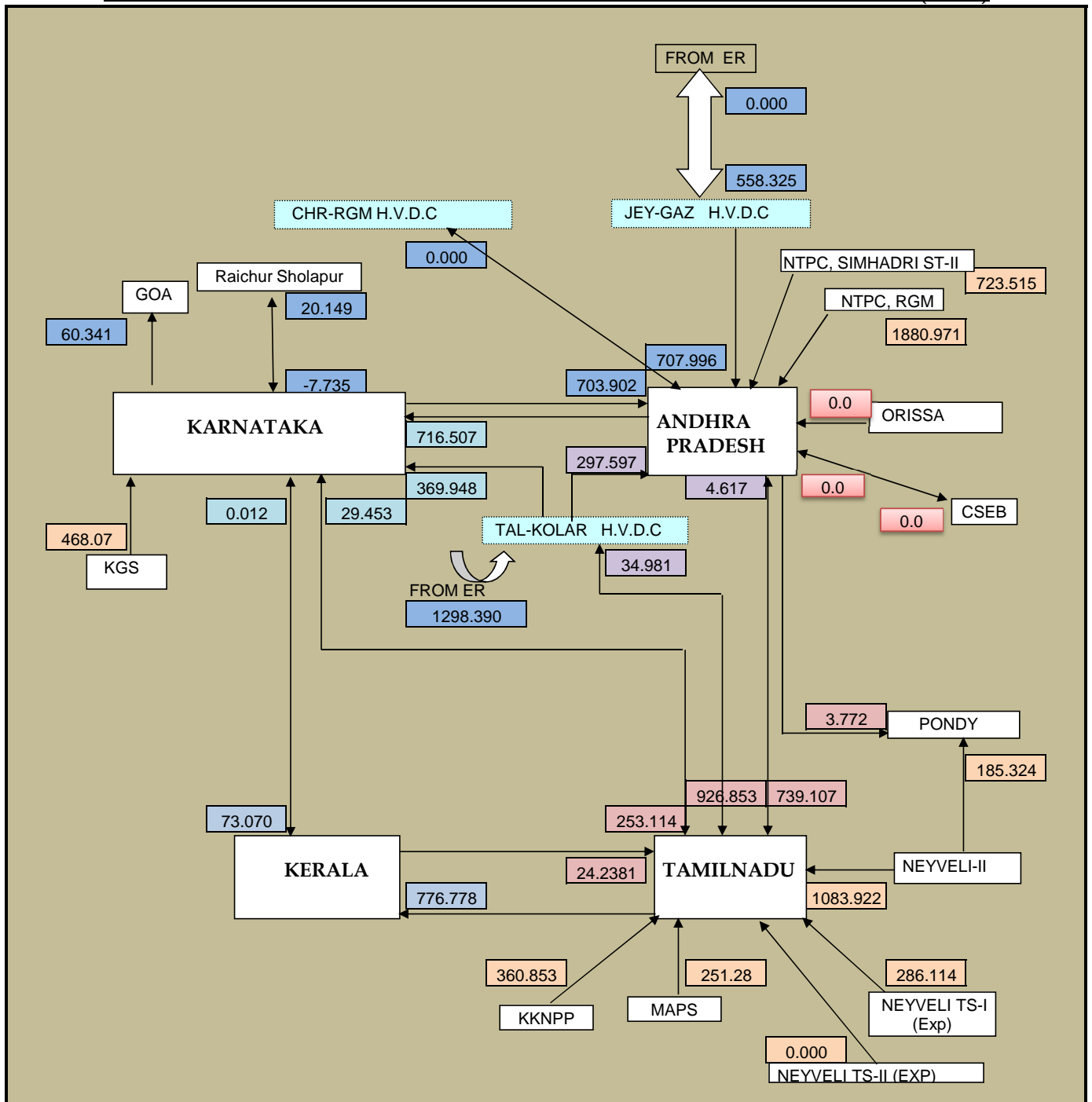
STATEWISE GENERATION AND DEMAND FOR PEAK DEMAND DAY 24.03.2014 (STACKED)



STATEWISE GENERATION AND DEMAND FOR MINIMUM DEMAND DAY 09.03.2014(STACKED)



ENERGY EXCHANGES FOR MARCH 2014 AMONG THE CONSTITUENTS (MU's)



Review of Progress of Works on Ongoing / New Generation Schemes in Southern Region			
Sl. No	Station	Capacity (MW)	Progress / Status
Name of the State : Andhra Pradesh			
A	Hydro (State) :		
1	Tail Pond PH at Nagarjunasagar	2 x 25 = 50	Unit 1 → July 2014 Unit 2 → Aug 2014
2	Lower Jurala	6 x 40 = 240	Unit I : June 2013, Balance 5 Units at 3 months interval there after.
3	Pulichintalla	4 x 30 = 120	Unit I : June 2014, Unit 2 : Oct 2014, Unit 3 : Feb 2015 & thereafter Unit 4
4	Dummugudem	320	2013-15.
5	Kamthanapally	450	150 MW → 2013-14, 300 MW → 2014-15
B (a)	Thermal (State) :		
1	Kakatiya TPP Stage-II	1 x 600 = 600	December 2013.
2	Rayalaseema TPS Stage- IV	1 x 600 = 600	Unit-VI (600MW) → Aug-2014
3	Polavaram	960	2016 -17
4	Sattupalli TPS	1 x 600 = 600	2013-14 (to be tied up)
5	Singareddipalli	5 x 40 = 200	U-I→July 2012, U-2→Nov 2012, U-3→March 2013 U-4→Nov 2013, U-5→March 2014
6	Kothaguden TPS (Stg - VII)	1 x 800 = 800	2016-17
7	Dr. NTPS, Vijayawada (Stg - V)	1 x 800 = 800	2016-17
8	Vadarevu Ultra Mega Power Project Stage I (U-1,2) & Stage II (U-3,4,5)	5 x 800 = 4000	U-1&2 by 2014-16, U-3,4&5 by 2017-20
B (b)	Thermal (Joint Venture) :		
1	Sri Damodaram Sanjeevaiah TPP (Krishnapatnam JV)	2 x 800 = 1600	Unit-1 : August 2013, Unit-2 :
2	Srikakulam TPS (JV)	4 x 600 = 2400	2014 - 16 (To be tied up)
B (c)	Thermal (Private) :		
1	Bhavanapadu TPP (East Coast Energy Ltd), Kakarapalli, Srikakulam (Dist)	(2x660) + (2x660)	Phase I → April 2014 Phase II → September 2014
2	Paloncha (Nava Bharat), Khammam	150	January 2013
3	Thermal Powertech - Nellaturu	2x660 = 1320	Unit 1 → Apr 2014, Unit 2 → Oct 2014
4	Krishnapattanam UMPP	6x660 = 3960	June 2013 to Feb 2015
5	Gunupudi (Surya Chakra TEPL)	660 + 660	
6	HNPC (Hinduja), Pavalavasa, Vizag	2x520 = 1040	Unit 1 → Dec 2013, Unit 2 →
7	Thamminapatnam TPP(Ph-II-U 1&2)	2x150 = 300	Unit 1 → Aug 2012, Unit 2 → Nov 2012
C	Nuclear (State JV) :		
	Kadappa Nuclear Power Plant	2x1000=2000	2014-16 (To be tied up)
D (a)	Gas Based (State) :		
1	Integrated gassification combined cycle (IGCC) plant at Dr. NTPS (JV)	1 x 182 = 182	2017-18
2	Shankarpally Gas Power Plant	1x1000=1000	2016-17
3	Combined cycle gas based project near Karimnagar	2100	2014-19
D (b)	Gas Based (Private) :		
1	Patancheru (Astha PCPL), Medak (Dt)	28.00	31.03.2012
2	Peddapuram (SPP Ltd), EG (Dist)	2262.00	
3	Chigurukota (Sriba Industries), Krishna (Dt)	13.60	
4	Gautami CCPP Stage-II, Peddapuram	2 x 400 = 800	
5	GVK Phase-III, Jegurupadu	2 x 400 = 800	
6	Mathya Giri (Vasavi), Nalgonda (Dist)	210.00	Nov / Dec 2012
7	Guggilla, Karimnagar (Dist) - Elgen	350 + 350	Oct / Dec 2013
8	Konaseema Phase-II, Ravulapalem	820.00	January 2014
9	Lanco Phase - III, Kondapalli	2 x 371 = 742	December 2011
10	Chandaparu, WG (Dist) - RVR	20.00	October 2012
11	Vetlapalem, EG Dist (Greenco)	60 + 60 = 120	2012-13
12	Vemagiri, EG Dist (GMR)	2 x 384 = 768	2012-13
13	Gurrampalem, Vizag Dist (LVS)	2x16.735 + 2x9.73 = 52.93	Depends on permission of APEPDCL
14	RVK, Jegurupadu, EG Dist	76+120 + (2x120) + 50	
13	Thamminapatnam (K.Patnam PCL), Nellore	1320 + 660	March - 2015

Sl. No	Station	Capacity (MW)	Progress / Status
E	Renewable Energy Sources (RES) :		
1	Municipal Waste based	67.43	30.10 MW commissioned 37.33 MW to be commissioned
2	Bio - mass based co-generation	66.25	29.25 MW commissioned 37.00 MW to be commissioned
3	Industrial waste based power plants	53.48	21.66 MW commissioned 31.82 MW to be commissioned
4	Mini Hydel Projects (H)	141.70	104.4 MW commissioned 37.00 MW to be commissioned
5	Bagasse based Co-generation	420.80	270.80 MW commissioned 150.00 MW to be commissioned
6	Bio - mass based power plant	224.50	190.5 MW commissioned 34.0 MW to be commissioned.
F	Wind (Private) :		
	Wind Energy (W)	399.34	114.97 MW commissioned 250.00 MW to be commissioned
G	Mini Power Plants :		
	Mini Power Plants	595.30	74.31 MW commissioned 521.00 MW to be commissioned
H (a)	Solar (State) :		
1	P. Jurala HEP	1.00	December 2011
H (b)	Solar Power Project (Private) :	75.50	2011-12 & 2012-13
Name of the State : Karnataka			
A	Hydro (State) :		
1	Gundia Phase - I	400	Environmental Clearance awaited
2	Gundia Hydro Electric Proj. (Phase - II) Hassan, Dakshina Kannada District	200	After getting Environmental Clearance from MoEF for Phase-I, Survey, Investigation works & EIA Studies will be made for Phase-II
3	Shivasamudram Seasonal Scheme	345	DPR has been submitted to CEA vide letter dt 30.3.2012
4	Gangavali Stage - II Scheme (Bedthi)	400	Pre Feasibility Report (PFR) submitted to CEA
5	Kali - Stage III (KHEP) Hydro Electric Project	300	DPR could not be taken up, as this project is within wild life sanctuary
6	Aghanashini (Tadri) Hydro Electric Project	600	KPCL submitted DPR to CEA vide their letter dated 29.10.2007
7	Mahadayi Hydro Electric Project	320	Field surveys taken up for the revised proposal of this project, outside the proposed Bhimgad Wild Life Sanctuary. DPR under preparation
8	Additional Unit at Munirabad PH	10	LoA has been issued on 04-02-2012 to M/s. Allonward-SSIPL-KR & Co
9	Additional unit at Ghataprabha	20	NIT issued on 17.03.2010. Evaluation of Price Bid under process
10	RM&U of Nagjhari PH Unit - 4,5 & 6	3 x 15 = 45	Unit 4 & 5 completed. Unit 6 will be taken for RM&U during 2012-13. Programmed to be commissioned during XII Plan
B (a)	Thermal (State) :		
1	Bellary TPS, Stage I, Unit - 2	500	Achieved full load on 23.03.2012. Synchronised on 30.8.12 and continuous generation started.
2	Bellary TPS, Stage I, Unit - 3 (Super Critical)	700	GoK has approved to take up the project. Works are in progress
3	RTPS Stg - II : a) Yermarus TPS	2 x 800 = 1600	Site allotted from KIDAB . Work under progress.
	b) Edlapur TPS	800	MoEF clearance awaited. Proposed to be set up in the available land at RTPS mill reject area
4	Mangalore TPS	1600	12th Plan
5	Chattisgarh Pit Head Thermal Power Plant	1600	Work is in progress. Commissioning by 2015-16
B (b)	Thermal (Private) :		
1	Annechakanahalli Phase I	1000	12th Plan
2	Kalgurki Phase I	1000	12th Plan
3	Yadagiri Phase I	1000	12th Plan
C	Gas Based (State) :		
1	Bidadi Combined Cycle Power Plant	700 ± 20 %	Land required for the project has been acquired. M/s GAIL has commenced the work of establishing gas terminal.

Sl. No	Station	Capacity (MW)	Progress / Status
2	Tadadi Combined Cycle Power Plant	2100	Pre Feasibility Report (PFR) prepared & action has been taken for obtaining statutory clearances. KIADB allotted 400 acres of land.
D	Solar (State) :		
1	Solar Photo Voltaic Power Plants at Belakavadi, Near Shivasamudram	5	Plant commissioned on 25.06.2012 and connected to the Grid
E	Wind (Joint Venture) :		
1	500 MW Wind Energy Projects by KPTCL in JV with NTPC	500	GoK approved for the development of 500 MW Wind Energy Projects. Sites identified for Kappatagudda (39.5 MW), Guledagudda (100 MW). Requested for allotment of Forest Land. Expected in XII plan. 116.5 MW Commissioned
Name of the State : Tamil Nadu			
	Hydro (State) :		
1	RMU of Periyar Power House Unit - III	7.0 (35 to 42)	Expected by June 2013
	Periyar Vaigai SHEP - III	2 x 2 = 4.0	Expected by December 2013
	Periyar Vaigai SHEP - IV	2 x 2 = 4.0	Expected by July 2013
2	Bhavani Barrage I (Nellithoral Lower Bhavani)	2 x 5 = 10	Expected by December 2013
	Bhavani Barrage II (Nellithoral Lower Bhavani)	2 x 5 = 10	Expected by June 2013
3	Bhavani Kattalai Barrage II	2 x 15 = 30	Unit I : June 2012 Unit-II : July 2012
	Bhavani Kattalai Barrage III	2 x 15 = 30	U - 1 : Oct 2012, U - 2 : Oct 2012, Exp CoD-Jun 2013
4	Kundah Pumped Storage HEP Phase I (1x125 MW)	125	Expected by 2015
	Kundah Pumped Storage HEP Phase II (3x125 MW)	375	Expected by 2015
5	Mettur Pumped Storage HEP	500	Preliminary Stage
6	Vellimalai Pumped Storage HEP	200	Preliminary Stage
7	Small HEP proposed to be developed by Private Promoters	118	Preliminary Stage
8	Moyar Ultimate Stage HEP	25	Preliminary Stage
9	Kollimalai HEP	520	Preliminary Stage
B (a)	Thermal (State) :		
1	North Chennai TPS Stage -II	2x 600=1200	Unit I : May 2013, Unit-II : April 2013
2	North Chennai TPS Stage -III	1x800=800	2015-2016
3	North Chennai TPS Stage -IV	2x800=1600	2015-2016
4	Mettur TPS Stage - III	1x600=600	Expected by April 2013
5	Tuticorin Thermal Power Project	1x800 = 800	2015-16
6	Ennore TPS Annexe	1x660=660	2015-16
7	Replacement of existing 40 year oldETPS	1x660=660	2015-16
8	Ennore (SEZ) TPS at Kattupalli	2x 600=1200	2015 - 16
B (b)	Thermal (Private) :		
1	Cheyur UMPP (Coastal Tamil Nadu Power Ltd) Subsidiary of Govt of India, PFC	5x800 = 4000	2016-17
2	Cuddalore IPP	2 x 660 MW	PPA signed
3	Melamaruthur (Mutiaru), Tuticorin (Coastal Energen Pvt Limited)	2 x 600 MW	Unit - 1 : 2012-13, Unit - 2 : April 2013
B (c)	Thermal (Joint Venture) :		
1	TNEB-BHEL JV at Udangudi	2x800 =1600	2015-16
2	Udangudi Expansion - Stg II	1x800 = 800	2015-16
3	Vallur TPP (JV with NTPC) Stg I : Phase I → 2 x 500 MW Phase II → 1 x 500 MW	(2x500+ 1x500) = 1500	Stg- I : Unit 1 - COD on 29-11-2012 Unit II - February 2013 Unit III - June 2013
4	NLC-TNEB at Tuticorin	2x500=1000	Unit I - September 2013, Unit II - June 2013
C	Gas Based (State) :		
1	Basin Bridge Closed loop conversion (120 MW to 220 MW)	100	Subject to availability of gas

Sl. No	Station	Capacity (MW)	Progress / Status
D	Non Conventional Energy Sources (NCES) :		
1	Establishment of Co-generation plants in 10 Nos. Co-operative and 2 Nos Public Sector Sugar Mills in Tamil Nadu along with Sugar Mill Modernization.	6 x 15.5 = 93 5 x 15.0 = 75 1 x 15.0 = 15 = 183	2013-14
2	Wind	300	2013-14
3	Bio-Mass	10	2013-14
4	Solar	1000	2013-14
E	Tariff Based Competitive Bidding Route :		
1	Uppur TPP, Tiruvadanai at Ramanathapuram District	2x800 = 1600	2015-16
2	Utharakosamangai TPP at Ramanathapuram District	2x800 = 1600	2016-17
Name of the State : Kerala			
`	State (Hydro) :		
1	Chimmony, Trichur	2.5	Expected by Feb 2014
2	Chattankottunada Stg-II , Kozhikode	3 x 2 = 6	Proposed date of commissioning : June 2013
3	Pallivasal Extension	2 x 30 = 60	Expected by 2012-13
4	Thottiyar	30 + 10 = 40	Expected by June 12
5	Peechi SHEP, Trichur	1.25	Commissioned on 7th, January, 2013
6	Anakkayam H.E. Project	7.50	Expected by Jan 15
7	Barapole SHEP, Kannur	15.00	Proposed date of commissioning : Oct '14
8	Vilangad SHEP, Kozhikode	3 x 2.5 = 7.5	Proposed date of commissioning : June 2013
9	Perumthenaruvi Project	6.00	Expected by Mar 14
10	Vellathooval SHEP	3.6	Proposed date of commissioning : 29th, June 2014
11	Adiyanpara	3.5	Proposed date of commissioning : January 2015
12	Kakkayam SHEP, Kozhikode	3	Proposed date of commissioning : Nov' 14
B	Augumentation :		
1	Sengulam Aug. (85 Mu)	85 Mu/Annum	Expected by 2012-13
C	IPP (Hydro) :		
1	Karikkayam	10.5	Expected by March 2013
Name of the Entity : Private & Central Sector			
I	Central Sector (Thermal) :		
1	Neyveli TS-II (Expansion) (NLC)	2x250 = 500	Unit I- Achieved FL on 04.02.2012., Exp CoD-July 2013 Unit II - October 2013
2	Jayamkondam Lignite (NLC)	1600	12th Plan
3	Neyveli TS-III (NLC)	1000	12th Plan
4	Sirkali TPP	3x660=1980	From GoI approval Unit 1 :52 months Unit 2 : 58 months Unit 3: 64 months (PPA has been signed)
II	Central Sector (Nuclear) :		
1	Kalpakkam (PFBR)	500	41518
2	Kudankulam (NPCIL)	2x1000=2000	Unit I : 2nd/3rd week of March 2013 Unit II: 6/8 month after CoD of Unit 1
III	Central Sector (Gas Based) :		
	Kayamkulam CCPP Module 1 to 3 (NTPC)	1050/1950	12th Plan. Gas supply by 2014