प्रणाली प्रचालन विवरण

SYSTEM OPERATION REPORT

मार्च 2013

MARCH 2013

दक्षिण क्षेत्रीय भार प्रेषण केन्द्र

बेंगलूर

SOUTHERN REGIONAL LOAD DESPATCH CENTRE

BANGALORE

CONTENTS

			PAGE No.
A		**SUMMARY REPORT**	
	I	**IMPORTANT EVENTS** a) COMMISSIONING OF NEW GENERATING UNITS b) COMMISSIONING OF NEW TRANSMISSION LINES c) COMMISSIONING OF NEW SUB-STATIONS d) MAJOR PROBLEMS / CONSTRAINTS	1
	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 2013

A)SUMMARY REPORT

I)IMPORTANT EVENTS

a)COMMISSIONING OF NEW GENERATING UNITS

SL.NO.	STATE/CGS	STATION NAME	CAPACITY (MW)	TYPE	DATE
1	KARNATAKA (IPP)	WINDMILL (2012-2013)	237.470	WIND	31-03-2013
2	KARNATAKA (IPP)	I T P L	9.000	DIESEL	31-03-2013
3	KARNATAKA (IPP)	JINDAL	300.000	COAL & COREX	
4	TAMIL NADU (IPP)	SOLAR	2.000	SOLAR	31-03-2013
5	TAMIL NADU (IPP)	TIRUNELVELI & UDUMALPET	7.150	WIND	31-03-2013
6	TAMIL NADU (IPP)	COGENERATION & BIOMASS	30.400	BIOGASSE& COGEN	31-03-2013

* Data Received late from States

b)COMMISSIONING OF NEW TRANSMISSION LINES

SL.NO.	CONSTITUENT	LINE NAME & CKT NO.	KV	LENGTH (kM)	DATE
1	POWERGRID	NELLORE - GOOTY - 1	400	290	01-04-2013
2	POWERGRID	NELLORE - GOOTY - 2	400	290	01-04-2013
3	POWERGRID	LILO OF NELLORE - SEPL/MEPL - 1 AT NELLORE POOLING STATION	400		01-04-2013
4	POWERGRID	LILO OF NELLORE - SEPL/MEPL - 2 AT NELLORE POOLING STATION	400		01-04-2013
5	APTRANSCO	CHALAKURTHY - KONDAMALEPALLY - 2	220	45	13-03-2013
6	APTRANSCO	LILO OF GOOTY SWITCHING STSTAION TO GOOTY RS	220	1.500	30-03-2013
7	APTRANSCO	PENDURTHY DIARY - PENDURTHY SS -2	220	14.870	31-03-2013
8	APTRANSCO	VTS - MALKARAM - 2	400		

c)COMMISSIONING OF NEW SUBSTATIONS

SL.NO.	CONSTITUENT	STATION NAME	KV RATIO	CAPACITY (MVA)	DATE
1	POWERGRID	BIDADI (ADDITION) - 2	400/220	500	01-04-2013

d)COMMISSIONING OF NEW LINE / BUS REACTORS

SL.NO.	CONSTITUENT	STATION NAME	BUS/LINE	CAPACITY (MVAR)	DATE
1	POWERGRID	NELLORE - GOOTY LINE - 1 AT GOOTY	LINE	63	01-04-2013
2	POWERGRID	NELLORE - GOOTY LINE - 2 AT GOOTY	LINE	63	01-04-2013

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	2315.64	2406.07	90.43
KPTCL	747.41	755.04	7.63
KSEB	1035.54	1108.16	72.62
TNEB	2131.61	2206.67	75.06
PONDY	227.81	191.98	-35.83
GOA	67.06	58.07	-8.99

III) Inter/Intra Regional exchanges in MU's

SCHEDULED INTER REGIONAL AND INTRA REGIONAL EXCHANGES OF POWER DURING MARCH 2013						
FROM		TO		TRADER	Wheeled Through	Total Energy Flow (MU)
UTILITY	REGION	UTILITY	REGION			
GOA	SR	GOA	WR	-	WHEELING	0.000
KPTCL(GLOBAL)	SR	KSEB	SR	GEL	INTRA REGIONAL	1.860
KPTCL(GMSUGAR)	SR	KSEB	SR	GMSUGAR LTD	INTRA REGIONAL	3.600
KPTCL(JSWEL)	SR	APTRANSCO (APCPDCL)	SR	JSWPTC	INTRA REGIONAL	140.359
KPTCL(JSWEL)	SR	APTRANSCO (APPCC)	SR	JSWPTC	INTRA REGIONAL	2.760
KPTCL(JSWEL)	SR	APTRANSCO (JSWCEMENT)	SR	JSWPTC	INTRA REGIONAL	4.423
KPTCL(JSWEL)	SR	KSEB	SR	JSWPTC	INTRA REGIONAL	158.213
KPTCL(JSWEL)	SR	TNEB(JSWSMETTUR)	SR	JSWPTC	INTRA REGIONAL	0.651
KPTCL(KPR SUGAR)	SR	TNEB(KPR ARASUR)	SR	KPR MILL	INTRA REGIONAL	2.184
KPTCL(KPR SUGAR)	SR	TNEB(KPR MILL)	SR	KPR MILL	INTRA REGIONAL	4.836
KPTCL(KPR SUGAR)	SR	TNEB(KPR NBR)	SR	KPR MILL	INTRA REGIONAL	0.884
KPTCL(KPR SUGAR)	SR	TNEB(KPR SATHYA)	SR	KPR MILL	INTRA REGIONAL	0.138
KPTCL(BMMISPAT)	SR	KSEB	SR	NVVNL	INTRA REGIONAL	8.360
KPTCL(HKMETALIC)	SR	KSEB	SR	PTC	INTRA REGIONAL	3.924
KPTCL(SIL)	SR	APTRANSCO (APCPDCL)	SR	PTC	INTRA REGIONAL	22.320
KPTCL(VIJAY SUGAR)	SR	KSEB	SR	PTC	INTRA REGIONAL	8.260
KPTCL(VASAVACEM)	SR	KSEB	SR	VASAVACEM	INTRA REGIONAL	8.712
POWER EXCHANGES						
IEX	ER/WR	APTRANSCO	IMPORT	IEX	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	340.224
IEX	ER/WR	KPTCL	IMPORT	IEX	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	0.124
IEX	ER/WR	KSEB	IMPORT	IEX	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	74.368
IEX	ER/WR	TNEB	IMPORT	IEX	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	83.271
IEX	ER/WR	SIMHAPURI	IMPORT	IEX	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	0.000
IEX	ER/WR	APTRANSCO	EXPORT	IEX	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	71.778
IEX	ER/WR	KPTCL	EXPORT	IEX	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	412.455
IEX	ER/WR	KSEB	EXPORT	IEX	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	0.000
IEX	ER/WR	TNEB	EXPORT	IEX	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	0.000
IEX	ER/WR	LKPPL	EXPORT	IEX	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	0.000
IEX	ER/WR	SIMHAPURI	EXPORT	IEX	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	5.895
IEX	ER/WR	MEENAKSHI	EXPORT	IEX	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	0.000
PXI	ER/WR	APTRANSCO	IMPORT	PXI	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	0.000
PXI	ER/WR	KPTCL	IMPORT	PXI	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	0.000
PXI	ER/WR	KSEB	IMPORT	PXI	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	0.123
PXI	ER/WR	TNEB	IMPORT	PXI	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	0.130
PXI	ER/WR	APTRANSCO	EXPORT	PXI	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	0.000
PXI	ER/WR	KPTCL	EXPORT	PXI	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	0.000
PXI	ER/WR	KSEB	EXPORT	PXI	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	0.000
PXI	ER/WR	LKPPL	EXPORT	PXI	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	0.000
IEX	ER/WR	SIMHAPURI	EXPORT	PXI	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	0.000
IEX	ER/WR	MEENAKSHI	EXPORT	PXI	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	0.000
GUJARATH (APLMUNDRA)	WR	APTRANSCO (APPCC)	SR	ADANI	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	19.665
WRLDC(JINDAL POWER)	WR	APTRANSCO (APCPDCL)	SR	JPL	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	5.332
PSEB(PSPCL)	NR	APTRANSCO (APCPDCL)	SR	JSWPTC	HVDC GAZUWAKA, I/C AT TALCHER	65.752

SCHEDULED INTER REGIONAL AND INTRA REGIONAL EXCHANGES OF POWER DURING MARCH 2013						
FROM		TO		TRADER	Wheeled Through	Total Energy Flow (MU)
UTILITY	REGION	UTILITY	REGION			
ORISSA(GRIDCO)	ER	APTRANSCO (APPCC)	SR	NVVNL	HVDC GAZUWAKA, I/C AT TALCHER	43.665
HPSEB(JP KARCHM WANG)	NR	KSEB	SR	JP KARCHAM	HVDC GAZUWAKA, I/C AT TALCHER	4.641
ORISSA(NBVL ORISSA)	ER	KSEB	SR	NVVNL	HVDC GAZUWAKA, I/C AT TALCHER	5.168
WRLDC(JINDAL POWER)	WR	KSEB	SR	NVVNL	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	0.807
DELHI(NDMC)	NR	KSEB	SR	PTC	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	3.962
DELHI(TATADELHI)	NR	KSEB	SR	PTC	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	5.261
ORISSA(ADHUNIC)	ER	KSEB	SR	PTC	HVDC GAZUWAKA, I/C AT TALCHER	5.973
ORISSA(GRIDCO)	ER	KSEB	SR	PTC	HVDC GAZUWAKA, I/C AT TALCHER	35.959
ORISSA(STERENERGY)	ER	KSEB	SR	PTC	HVDC GAZUWAKA, I/C AT TALCHER	2.117
WRLDC(JINDAL POWER)	WR	KSEB	SR	PTC	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	0.224
WRLDC(JINDAL POWER)	WR	TNEB (TANGEDCO)	SR	JPL	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	136.342
ORISSA(GRIDCO)	ER	TNEB (TANGEDCO)	SR	NVVNL	HVDC GAZUWAKA, I/C AT TALCHER	60.938
ORISSA(STERENERGY)	ER	TNEB (TANGEDCO)	SR	NVVNL	HVDC GAZUWAKA, I/C AT TALCHER	224.999
RAJASTHAN(SHRECEMTPS)	NR	TNEB (TANGEDCO)	SR	SCL	HVDC GAZUWAKA, I/C AT TALCHER	15.891
MTOA						
SIMHAPURI (M_12_27)	SR	APTRANSCO (APCPDCL)	SR	PTC	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	49.532
MEENAKSHI(M_12_26)	SR	APTRANSCO (APCPDCL)	SR	PTC	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	82.745
SIMHAPURI (M_12_23)	SR	APTRANSCO (APCPDCL)	SR	PTC	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	111.906
(MTOA)NSPCLBHIL(CSEB)	WR	KPTCL(SAIL_VISL)	SR	SAIL_VISL	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	6.775
CSEB(BALCO)	WR	KPTCL(BESCOM)	SR	NETS	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	66.686
CSEB(CSPDCL)	WR	KPTCL(BESCOM)	SR	NETS	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	107.266
GUJARATH (GUVNL)	WR	KPTCL(BESCOM)	SR	BESCOM	HVDC GAZUWAKA, I/C AT TALCHER, HVDC AT C'PUR	366.224

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

	FREQUENCY (HZ)	DATE	FVI	DATE
MAXIMUM	50.64	05/Mar/2013	0.59	29/Mar/2013
MINIMUM	49.20	29/Mar/2013	0.29	07/Mar/2013
AVERAGE	49.83		0.45	

b) FREQUENCY DISTRIBUTION FOR THE MONTH

The frequency ranges as a percentage of time during the month

Hz	<48.5	48.5 - 49	49 - 49.7	49.7 - 50.2	>50.2
%	0.00	0.00	11.92	86.95	1.13

V) POWER SUPPLY POSITION FOR THE MONTH

	AP	KAR	KER	TN	PONDY	REGION
UNRESTRICTED PEAK DEMAND(MW)	13761	8985	3407	12665	320	38627
PEAK DEMAND MET (MW)	11630	8096	3237	10783	318	32428
UNRESTRICTED ENERGY REQMT(MU)	9694	6381	1886	8299	193	26452
ENERGY MET (MU)	7717	5248	1825	6699	192	21681

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	6092.50	272.00	3.00	---	10198.06
KARNATAKA	3669.45	2220.00	127.92	18.55	---	6035.92
KERALA	1949.90	---	594.18	2.03	---	2546.11
TAMILNADU	2221.90	3570.00	515.88	17.56	---	6325.34
PONDICHERRY	---	---	32.50	---	---	32.50
CENTRAL SECTOR	---	7990.00	---	---	1320.00	9310.00
IPP	851.30	2910.00	4785.93	12357.13	---	20904.36
TOTAL	12523.11	22782.50	6328.41	12398.26	1320.00	55352.28

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 also been included under the Central Sector.

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-2012	9198	6031	2182	5694	32.5	10270	18984	52392
Mar-2013	10198	6036	2546	6325	32.5	9310	20904	55352
% INCREASE	10.87	0.08	16.68	11.08	0.00	-9.34	10.11	5.65

ENERGY (GROSS) Unrestricted Requirement(MU)	APTRANSCO	KPTCL	KSEB	TNEB	PONDY	REGIONAL
Mar-2012	9287	6414	1899	7988	189	25778
Mar-2013	9694	6381	1886	8299	193	26452
Energy Availability (MU)						
Mar-2012	7874	5479	1855	6016	187	21410
Mar-2013	7717	5248	1825	6699	192	21681
Shortage(-)/ Surplus(+)						
Mar 2012 (MU) / %	-1413 (-15.2)	-936 (-14.6)	-45 (-2.3)	-1972 (-24.7)	-2 (-1.3)	-4368 (-16.9)
Mar 2013 (MU) / %	-1976 (-20.4)	-1133 (-17.7)	-61 (-3.2)	-1600 (-19.3)	-1 (-0.7)	-4771 (-18.0)

DEMAND Unrestricted Demand (MW)	APTRANSCO	KPTCL	KSEB	TNEB	PONDY	REGIONAL
Mar-2012	13434	10190	3508	11658	315	36324
Mar-2013	13761	8985	3407	12665	320	38627
Availability (MW)						
Mar-2012	11972	8549	3348	10242	311	33037
Mar-2013	11630	8096	3237	10783	318	32428
Shortage(-)/ Surplus(+)						
Mar 2012 (MW) / %	-1462 (-10.9)	-1641 (-16.1)	-160 (-4.6)	-1416 (-12.1)	-4 (-1.3)	-3287 (-9.0)
Mar 2013 (MW) / %	-2131 (-15.5)	-889 (-9.9)	-170 (-5.0)	-1882 (-14.9)	-2 (-0.5)	-6199 (-16.0)

III)VOLTAGE PROFILE

MAXIMUM AND MINIMUM VOLTAGES (KV) AND VOLTAGE RANGE (PERCENTAGE)

STATION	MAXIMUM	MINIMUM	< 360	360 - 380	380 - 420	>420
RAMAGUNDAM	419	403	0.00	0.00	100.00	0.00
HYDERABAD	433	408	0.00	0.00	48.92	51.08
BANGALORE	419	385	0.00	0.00	100.00	0.00
MADRAS	419	390	0.00	0.00	100.00	0.00
NEYVELI	415	399	0.00	0.00	100.00	0.00

GENERATION ADDITION

SL.NO.	STATE/CGS	STATION NAME	CAPACITY (MW)	TYPE	DATE
1	KARNATAKA (IPP)	WINDMILL (2012-2013)	237.470	WIND	31-03-2013
2	KARNATAKA (IPP)	I T P L	9.000	DIESEL	31-03-2013
3	KARNATAKA (IPP)	JINDAL	300.000	COAL & COREX	
4	TAMIL NADU (IPP)	SOLAR	2.000	SOLAR	31-03-2013
5	TAMIL NADU (IPP)	TIRUNELVELI & UDUMALPET	7.150	WIND	31-03-2013
6	TAMIL NADU (IPP)	COGENERATION & BIOMASS	30.400	BIOGASSE& COGEN	31-03-2013

IV)PERFORMANCE OF CONSTITUENTS

ENERGY GENERATED BY GENERATING STATIONS / UNITS IN SOUTHERN REGION DURING MARCH 2013

ANDHRA PRADESH

SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)			ENERGY GENERATION	
					Mar-13	From 01-04-12 To 31-03-2013
HYDRO						
1	MACHKUND	3x(23+17)x70%	=	84.00	33.71	281.39
2	T.B.DAM	(8x9)x80%	=	57.60	8.95	114.25
3	UPPER SILERU	4x60	=	240.00	72.43	423.93
4	DONKARAYI	1x25	=	25.00	13.47	46.32
5	LOWER SILERU	4x115	=	460.00	127.48	1151.05
6	SRISAILAM RBPH	7x110	=	770.00	105.54	572.51
7	SRISAILAM LBPH	6x150	=	900.00	26.13	344.75
8	N'SAGAR	1x110+7x100.8	=	815.60	0.00	288.79
9	NSR RT.CANAL.P.H	3x30	=	90.00	0.00	0.00
10	NSR LT.CANAL.P.H	2x30	=	60.00	0.00	0.01
11	NIZAMSAGAR	2x5	=	10.00	1.61	5.14
12	POCHAMPAD	4x9	=	36.00	4.64	16.29
13	PENNA AHOBILAM	2x10	=	20.00	0.00	2.87
14	SINGUR	2x7.5	=	15.00	0.27	2.89
15	JURALA	6x39	=	234.00	0.00	139.97
16	MINI HYDEL (+ APTRIPCO 1.2 MW)	13.36	=	13.36	0.29	5.12
	TOTAL			**3830.56**	**394.51**	**3395.29**
THERMAL						
COAL						
1	SIMHADRI (AP) - NTPC	2x500	=	1000.00	734.54	7222.48
2	RAMAGUNDAM-B	1x62.5	=	62.50	42.16	435.19
3	KOTHAGUDEM-A	4x60	=	240.00	150.19	1602.96
4	KOTHAGUDEM-B	2x120	=	240.00	144.22	1379.45
5	KOTHAGUDEM-C	2x120	=	240.00	133.85	1506.14
6	KOTHAGUDEM-D	2x250	=	500.00	356.28	3691.59
7	KOTHAGUDEM ST VI	1x500	=	500.00	380.64	4129.12
8	VIJAYAWADA	6x210 + 1x500	=	1760.00	1264.14	13508.08
9	RAYALASEEMA	5x210	=	1050.00	727.72	7656.96
10	KAKATIYA TPP 1	1x500	=	500.00	345.63	3998.10
	TOTAL			**6092.50**	**4279.38**	**45130.09**
GAS/NAPTHA/DIESEL						
1	VIJJESWARAM STAGE 1 (GAS)	2x33+1x34	=	100.00	0.12	27.16
2	VIJJESWARAM STAGE 2 (GAS)	1x112.5+1x59.5	=	172.00	82.90	1084.57
	TOTAL			**272.00**	**83.02**	**1111.72**
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	5.00	135.00
COAL						
2	CAPTIVE POWER PLANTS	0	=	0.00	142.25	976.55
GAS/NAPTHA/DIESEL						
3	JEGURUPADU (GAS)	2x45.8+1x48.9+1x75.5	=	216.82	82.60	1096.28
4	GVK EXTENSION(GAS)	1x145+1x75	=	220.00	0.00	542.29
5	SPECTRUM (GAS)	1x46.8+2x46.1+1x68.88	=	208.31	86.70	986.21
6	LANCO (GAS)	2x115+1x125	=	351.49	172.32	1708.85
7	ISOLATED GAS WELL (GAS) (LVS)	27.04	=	27.04	3.00	59.00
8	RELIANCE ENERGY LTD. (GAS)	1x140+1x80	=	220.00	39.81	695.57
9	VEMAGIRI POWER GENERATION LTD.(GAS)	1x233+1x137	=	370.00	32.66	907.10
10	GAUTAMI CCPP	2x145 + 1x174	=	464.00	34.13	976.83
11	KONASEEMA CCPP	145.9911+140.0899+165	=	444.08	19.39	896.47
12	GMR (BARG)	237	=	237.00	1.43	424.82
WIND						
13	WINDMILL	428.09	=	428.09	22.11	359.01
14	SOLAR (Cuddapah, Ananthpur, MehboobNagar,Chittoor)	22.75	=	22.75	3.00	29.00
OTHERS						
15	RCL	41	=	41.00	18.00	257.14
16	BAGASSE+BIOMASS+WASTE BASED PP+CO-GENERATION (NC)	274.8+205.25+29.25+53.76	=	563.06	158.93	1060.73
17	MINI POWER PLANTS	78.79	=	78.79	5.00	354.17
	TOTAL			**3998.07**	**826.34**	**11465.02**
	TOTAL ANDHRA PRADESH			**14196.130**	**5583.25**	**61102.12**

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

KARNATAKA

SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)			ENERGY GENERATION	
					Mar-13	From 01-04-12 To 31-03-2013
HYDRO						
1	SHARAVATHI	10x103.5	=	1035.00	538.30	4624.72
2	LINGANAMAKKI.P.H.	2x27.5	=	55.00	24.96	195.39
3	JOG (MGHES)	4x21.6+4x13.2	=	139.20	18.74	141.88
4	NAGJHERI	1x135+5x150	=	885.00	376.40	1924.98
5	SUPA	2x50	=	100.00	64.18	323.90
6	VARAHI	4x115	=	460.00	185.77	1037.57
7	BHADRA POWER HOUSE	1x7+2x12.1+1x2+6	=	39.20	2.02	52.36
8	SIVANSAMUDRAM	6x3+4x6	=	42.00	1.11	244.41
9	SHIMSHA	2x8.6	=	17.20	0.91	49.63
10	MUNIRABAD	3x9	=	28.00	0.59	72.01
11	T.B.DAM SHARE (20 %)	8x9(20%)	=	14.40	2.28	28.05
12	GHATAPRABHA	2x16	=	32.00	3.52	51.83
13	MANI DAM.P.H.	2x4.5	=	9.00	4.17	23.02
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	28.18	257.76
17	KODASALLI	3x40	=	120.00	33.54	216.21
18	SHARAVATHI TAIL RACE	4x60	=	240.00	47.60	452.42
19	ALMATTI	1x15+5x55	=	290.00	0.57	429.40
	TOTAL			**3669.45**	**1332.84**	**10125.53**
THERMAL						
COAL						
1	RAICHUR.T.PS.	7x210 +1x250	=	1720.00	847.46	10017.20
2	BELLARY TPS	1x 500	=	500.00	391.30	4006.10
	TOTAL			**2220.00**	**1238.76**	**14023.30**
GAS/NAPTHA/DIESEL						
1	YELEHANKA (DIESEL)	6x21.32	=	127.92	13.16	225.38
	TOTAL			**127.92**	**13.16**	**225.38**
WIND						
1	KAPPATAGUDDA	4.55	=	4.55	0.60	12.37
2	SOLAR	9+5	=	14.00	1.81	12.38
	TOTAL			**18.55**	**2.41**	**24.75**
IPP						
HYDRO						
1	MINI HYDEL	702.66	=	702.66	0.00	0.00
COAL						
2	UPCL(THERMAL)	2x600	=	1200.00	638.20	5856.30
3	JINDAL (COAL & COREX)	2x130+4x300	=	1460.00	706.47	7973.99
GAS/NAPTHA/DIESEL						
4	TATA ELECTRIC (DIESEL)	5x16.26	=	81.30	0.00	77.49
5	RAYAL SEEMA ALKALIES (DIESEL)	3x12	=	27.80	0.00	10.06
6	I T P L (DIESEL)	9	=	9.00	0.00	0.00
WIND						
7	WIND MILL	2157.965	=	2157.97	0.00	0.00
OTHERS						
8	CO-GENERATION	952.66	=	952.66	658.92	8459.51
9	BIO-MASS	88.5	=	88.50	0.00	0.00
	TOTAL			**6679.89**	**2003.59**	**22377.35**
	TOTAL KARNATAKA			**12715.805**	**4590.75**	**46776.31**

KERALA

SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)			ENERGY GENERATION	
					Mar-13	From 01-04-12 To 31-03-2013
HYDRO						
1	KUTTIADI + EXTENTION + ADDL. EXTN.	3x25 + 50 +50+50	=	225.00	58.07	501.49
2	SHOLAYAR	3x18	=	54.00	18.99	206.56
3	PORINGALKUTHU	4x8	=	32.00	4.12	132.06
4	PORIG. L. BANK	16	=	16.00	5.92	97.14
5	PALLIVASAL	3x7.5+3x5	=	37.50	16.48	182.55
6	SENGULAM	4x12	=	48.00	8.92	112.87
7	PANNIAR	2x16	=	32.00	5.01	89.04
8	NERIAMANGALAM + EXTENSION	3x17.5 +25	=	77.50	10.10	236.24
9	SABARIGIRI	1x60 + 4x55	=	280.00	124.70	809.03
10	IDUKKI	3x130+3x130	=	780.00	119.77	1560.63
11	IDAMALAYAR	2x37.5	=	75.00	32.37	241.12
12	KALLADA	2x7.5	=	15.00	1.10	24.63
13	PEPPARA	3	=	3.00	0.39	3.31
14	MADUPETTY	2	=	2.00	0.70	2.45
15	MALAMPUZHA	1x2.5	=	2.50	0.00	1.37

KERALA

SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)			ENERGY GENERATION	
					Mar-13	From 01-04-12 To 31-03-2013
HYDRO						
16	L.PERIYAR	3x60	=	180.00	10.78	367.23
17	KAKKAD	2x25	=	50.00	18.26	133.68
18	CHEMBUKADAVU	1x2.7+1x3.75	=	6.45	0.00	9.73
19	URUMI	1 x 3.75 + 1 x 2.4	=	6.15	0.00	11.02
20	MALANKARA	3 x 3.5	=	10.50	1.65	26.90
21	LOWER MEENMUTTY	2x1.5 + 1x0.5	=	3.50	0.03	2.39
22	KUTTIADI TAIL RACE	3 x 1.25	=	3.75	0.99	7.67
22	POOZHITHODE	3 x 1.60	=	4.80	0.01	11.12
24	RANIPERUNADU	2 x 2	=	4.00	0.61	6.17
24	PEECHI	1 x 1.25	=	1.25	0.00	0.16
	TOTAL			**1949.90**	**438.97**	**4776.58**
GAS/NAPTHA/DIESEL						
5	RGCCPP,KAYAMKULAM (KSEB) - NTPC	2x116.6(GT)+1x126.38(ST)	=	359.58	89.39	1515.72
1	BRAHMAPURAM DGPP (DIESEL)	5x21.32	=	106.60	15.07	77.26
2	KOZHIKODE DPP (DIESEL)	8x16	=	128.00	53.14	438.57
	TOTAL			**594.18**	**157.60**	**2031.55**
WIND						
1	WIND MILL	2.025	=	2.03	0.08	1.46
	TOTAL			**2.03**	**0.08**	**1.68**
IPP						
HYDRO						
1	MANIYAR	3x4	=	12.00	1.40	21.49
2	KUTHUNGAL	3x7	=	21.00	4.21	24.37
3	ULLUNGAL	2x3.5	=	7.00	1.35	13.88
4	IRUTTUKANAM	1x3	=	3.00	0.23	20.31
GAS/NAPTHA/DIESEL						
5	BSES (NAPTHA)	3x40.5(GT)+1x35.5(ST)	=	157.00	107.78	129.69
6	KASARGODE (DIESEL)	3x7.31	=	21.93	0.27	3.37
7	MPS STEEL CASTINGS	1x10	=	10.00	0.00	10.01
WIND/OTHERS						
8	AGALI	31 x 0.6	=	18.60	0.76	39.18
9	RAMAKKELMEDU	19 X 0.75	=	14.25	0.91	28.79
10	PCBL Co-Generation	10	=	10.00	2.60	31.83
	TOTAL			**274.78**	**119.52**	**322.94**
	TOTAL KERALA			**2820.885**	**716.17**	**7132.74**

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

TAMILNADU

SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)			ENERGY GENERATION	
					Mar-13	From 01-04-12 To 31-03-2013
HYDRO						
1	PYKARA	3x6.65+1x11+2x14	=	58.95	0.00	34.05
2	PYKARA MICRO	1x2	=	2.00	2.57	7.26
3	PYKARA ULTIMATE (PUSHEP)	3x50	=	150.00	0.88	127.32
4	MOYAR	3x12	=	36.00	48.96	130.41
5	MARAVAKANDI	1x0.75	=	0.75	17.78	29.02
6	KUNDAH-I	3x20	=	60.00	0.22	138.19
7	KUNDAH-II	5x35	=	175.00	24.07	403.18
8	KUNDAH-III	3x60	=	180.00	55.21	314.99
9	KUNDAH-IV	2x50	=	100.00	31.38	129.85
10	KUNDAH-V	2x20	=	40.00	2.51	27.85
11	SURULIYAR	1x35	=	35.00	10.65	63.31
12	KADAMPARAI	4x100	=	400.00	6.49	289.21
13	ALIYAR	1x60	=	60.00	21.96	105.98
14	POONACHI	1x2	=	2.00	4.53	7.37
15	METTUR DAM	4x12.5	=	50.00	0.01	81.48
16	METTUR TUNNEL	4x50	=	200.00	0.57	142.86
17	LOWER METTUR BARRIAGE - 1 TO 4	8x15	=	120.00	1.17	166.00
18	BHAVANISAGAR MICRO	4x2	=	8.00	0.17	18.02
19	PERIYAR	4x35	=	140.00	0.00	213.62
20	VAIGAI	2x3	=	6.00	0.00	8.23
21	PAPANASAM	4x8	=	32.00	0.00	49.84
22	SERVALAR	1x20	=	20.00	3.88	17.05
23	SARKARAPATHY	1x30	=	30.00	0.55	81.64
24	SHOLAYAR	2x35+25	=	95.00	0.00	209.80
25	KODAYAR	1x60+1x40	=	100.00	21.54	108.26
26	LOWER BHAVANISAGAR	2X4	=	8.00	5.85	6.58
27	SATHANUR DAM PH	1x7.5	=	7.50	0.00	3.84
28	KUNDAH-VI (Parson Valley)	1x30	=	30.00	0.61	23.07
29	MICRO TOTAL	0.70+1.95+2.5+4+1.3+5.25	=	15.70	5.47	19.80
30	BHAVANI KATTALAI BARRAGE - I & II	4x15	=	60.00	0.00	74.99
	TOTAL			**2221.90**	**267.04**	**3033.06**

TAMILNADU

SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)			ENERGY GENERATION	
					Mar-13	From 01-04-12 To 31-03-2013
THERMAL						
COAL/LIGNITE						
1	NEYVELI-I (TN) - NLC	6x50+3x100	=	600.00	410.55	3959.40
2	ENNORE.T.P.S	2x60+3x110	=	450.00	66.62	753.18
3	TUTUCORIN.T.P.S	5x210	=	1050.00	775.20	8321.56
4	METTUR.T.P.S	4x210	=	840.00	751.80	6473.36
5	NORTH CHENNAI T.P.S	3x210	=	630.00	441.44	5064.25
	TOTAL			**3570.00**	**2445.60**	**24571.75**
GAS/NAPTHA/DIESEL						
1	BASIN BRIDGE (NAPTHA)	4x30	=	120.00	0.00	0.42
2	KOVIL KALAPPAL (GAS)	1x70+1x37.88	=	107.88	58.20	718.05
3	VALATHUR (GAS) STG1	1x60+1x35	=	95.00	65.86	448.92
4	VALATHUR (GAS) STG2	1 x 60 + 1 x 32	=	92.00	51.77	473.66
5	KUTTALAM (GAS)	1x64+1x37	=	101.00	47.76	55.84
	TOTAL			**515.88**	**223.59**	**1696.87**
WIND / SOLAR						
1	TNEB WIND MILL	17.555	=	17.56	0.12	11.81
	TOTAL			**17.56**	**0.12**	**11.81**
IPP						
LIGNITE						
2	ST - CMS	250	=	250.00	159.30	1530.37
GAS/NAPTHA/DIESEL						
3	GMR POWER (DIESEL)	4x49	=	196.00	65.02	590.32
4	SAMALPATTY (DIESEL)	7x15.1	=	105.66	28.84	339.92
5	MADURAI POWER CL (DIESEL)	106	=	106.00	32.96	355.01
6	P P NALLUR (NAPTHA)	330.5	=	330.50	178.47	1778.45
7	ABAN POWER (GAS)	74.41+38.81	=	113.20	49.62	851.81
8	ARKEY ENERGY(PENNA)(GAS)	1x38 + 2x6.8 + 1x20	=	52.80	31.47	374.52
WIND/OTHERS						
9	WIND MILL *	7127.665	=	7127.67	269.19	13007.42
10	SOLAR	17.000	=	17.00	2.02	22.22
11	CO-GENERATION	659.40	=	659.40	914.46	7988.03
12	BIO-MASS & CPP	177.4	=	177.40		
	TOTAL			**9135.63**	**1731.36**	**26838.07**
	TOTAL TAMIL NADU			**15460.96**	**4667.72**	**56151.55**

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-13	From 01-04-12 To 31-03-2013
GAS/NAPTHA/DIESEL						
1	KARAIKAL POWER PLANT (GAS)	22.9 + 9.6	=	32.50	32.50	241.15
	TOTAL			**32.50**	**32.50**	**241.15**
	TOTAL PONDICHERRY			**32.50**	**32.50**	**241.15**

IPP UNDER OPEN ACCESS

GAS/NAPTHA/DIESEL						
1	LANCO KONDAPPILLI POWER LTD.	233 + 133	=	366.00	0.00	676.17
2	SIMHAPURI ENERGY PVT LTD	2 x 150	=	300.00	168.97	1337.19
3	MEENAKSHI ENERGY PVT LTD	1 x 150	=	150.00	84.58	251.00
	TOTAL			**816.00**	**253.55**	**2264.37**
	TOTAL IPP UNDER OPEN ACCESS			**816.00**	**253.55**	**2264.37**

CENTRAL SECTOR

SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)			ENERGY GENERATION	
					Mar-13	From 01-04-12 To 31-03-2013
THERMAL						
COAL						
1	RAMAGUNDAM T.P.S (ISGS) - NTPC	3x200+4x500	=	2600	1911.69	20456.90
2	TALCHER STAGE II (ISGS) - NTPC	4x500	=	2000	1124.97	14209.68
3	SIMHADRI STAGE - II - NTPC	2x500	=	1000	535.15	4911.59
4	VALLUR TPS - NTPC	1x500	=	500	231.48	797.64
LIGNITE						
5	NEYVELI-II (ISGS) - NLC	7x210	=	1470	1066.98	11122.74
6	NEYVELI TPS-I (Expansion) (ISGS) - NLC	2x210	=	420	316.94	3214.11
7	NEYVELI TPS-II (Expansion) (ISGS) - NLC		=			
	TOTAL			**7990.00**	**5187.20**	**54712.65**
NUCLEAR						
1	M.A.P.S KALPAKAM (ISGS) - NPC	2x220	=	440.00	135.08	2753.21
2	KAIGA A.P.S (ISGS) - NPC	4x220	=	880.00	400.60	5380.13
	TOTAL			**1320.00**	**535.69**	**8133.34**
	TOTAL CENTRAL SECTOR			**9310.00**	**5722.89**	**62845.99**
	GRAND TOTAL			**55352.28**	**21566.83**	**236514.23**

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	834.42	834.54	369.00	374.00	17.81
LINGANAMAKKI	522.70	554.50	544.17	544.27	1925.00	1942.00	24.62
SUPA	495.00	564.00	539.53	539.71	1326.00	1336.00	13.03
IDDUKKI	694.90	732.40	707.37	707.42	513.00	516.00	4.19
KAKKI	908.30	981.50	962.83	963.06	397.00	400.00	10.88
NILGIRIS	---	---	0.00	0.00	601.00	606.00	16.51

VI) BRIEF DESCRIPTION OF DISTURBANCES:-

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

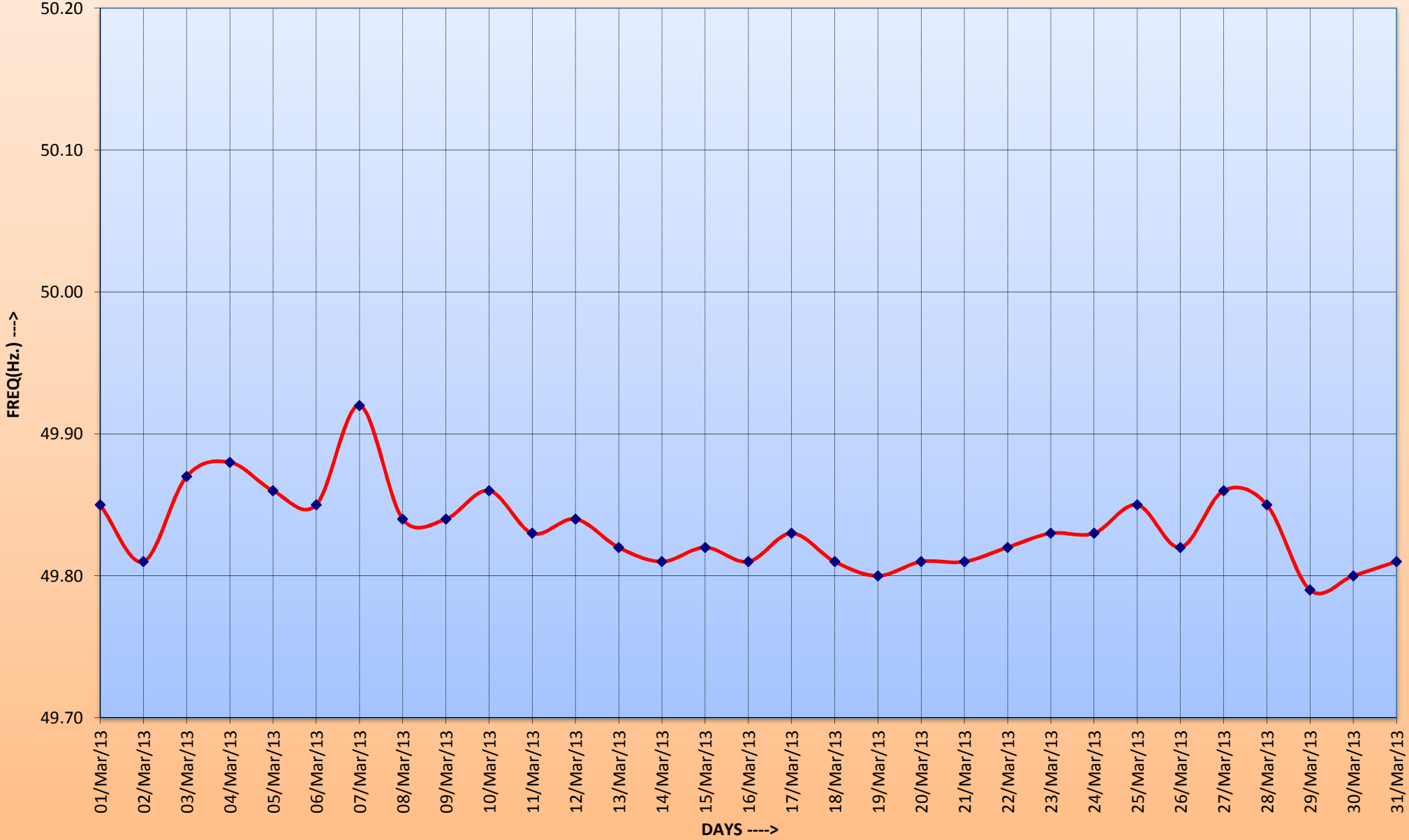
VII) PROGRESS OF SHUNT CAPACITORS

STATE	Installed as on 31.03.2012	*Programme of SEB's for 2012-2013	Capacitor Addition in March 2013	Capacitors installed during 2012-2013	Caryy Over of 2011-2012	Decommissioned / Permanently Failed During 2012-13	Total Commulative Installed as on 31-03-2013
APTRANSCO	6593.40		0.00	0.00	55.00	0.00	6593.40
KPTCL	4436.48		0.00	22.72	53.96	0.00	4459.20
KSEB	995.00		0.00	0.00	10.00	320.00	675.00
TNEB #	3947.50		0.00	110.40	101.00	2.00	4055.90
PUDUCHERY	77.02		0.00	0.00	0.00	0.00	77.02
TOTAL	16049.39	0.00	0.00	133.12	219.96	322.00	15860.51

* Yet to be finalised.

2 MVAR Reactor from 11 kV has been takenout in Jan 2013 by TN

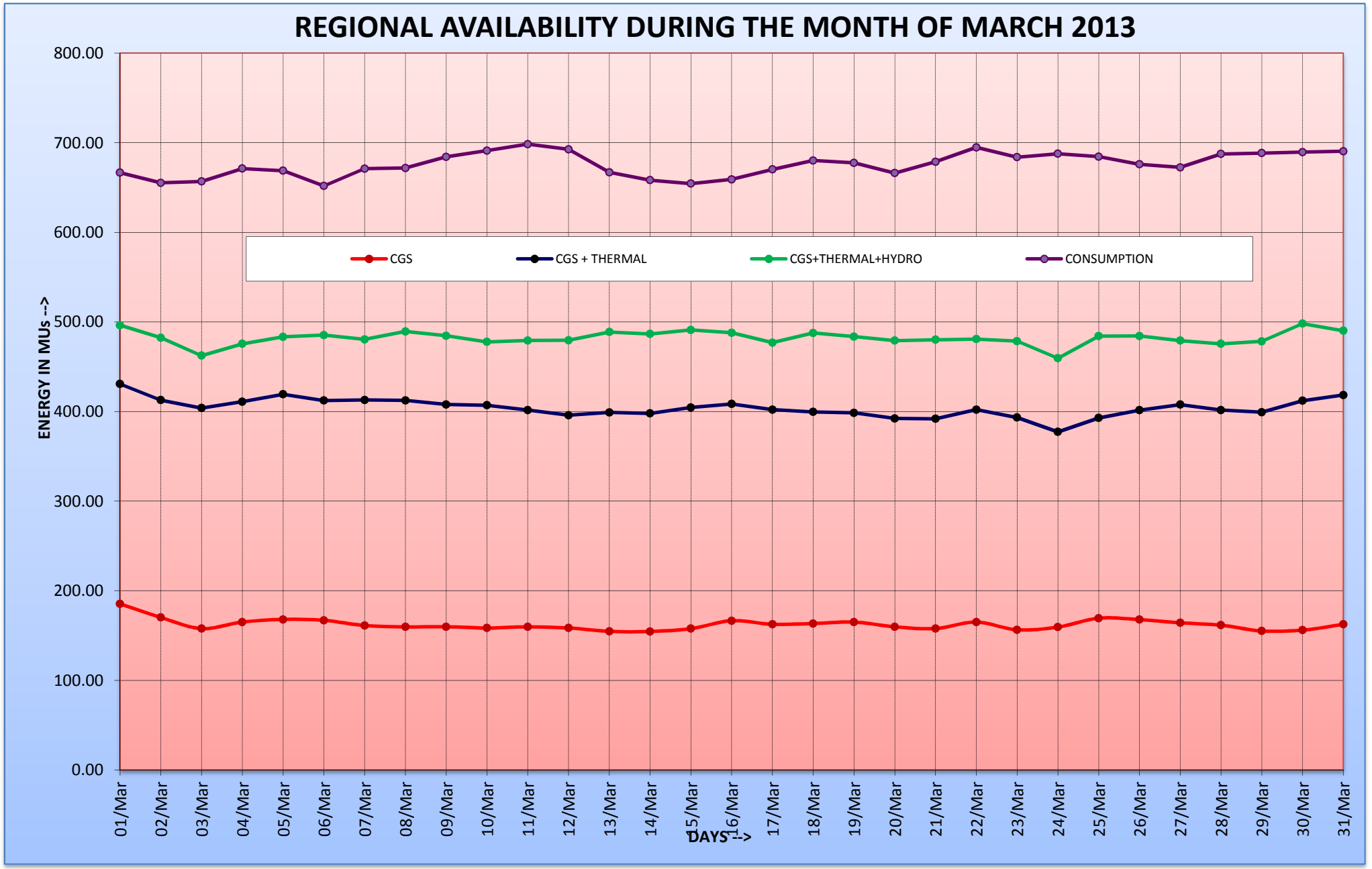
FREQUENCY PROFILE FOR MARCH 2013



DATE	FVI
01-Mar-13	0.42
02-Mar-13	0.57
03-Mar-13	0.33
04-Mar-13	0.37
05-Mar-13	0.41
06-Mar-13	0.41
07-Mar-13	0.29
08-Mar-13	0.38
09-Mar-13	0.42
10-Mar-13	0.36
11-Mar-13	0.42
12-Mar-13	0.37
13-Mar-13	0.45
14-Mar-13	0.54
15-Mar-13	0.46
16-Mar-13	0.51
17-Mar-13	0.42
18-Mar-13	0.50
19-Mar-13	0.57
20-Mar-13	0.49
21-Mar-13	0.49
22-Mar-13	0.46
23-Mar-13	0.44
24-Mar-13	0.40
25-Mar-13	0.37
26-Mar-13	0.47
27-Mar-13	0.47
28-Mar-13	0.43
29-Mar-13	0.59
30-Mar-13	0.49
31-Mar-13	0.53
AVERAGE	0.45
MAXIMUM	0.59
MINIMUM	0.29

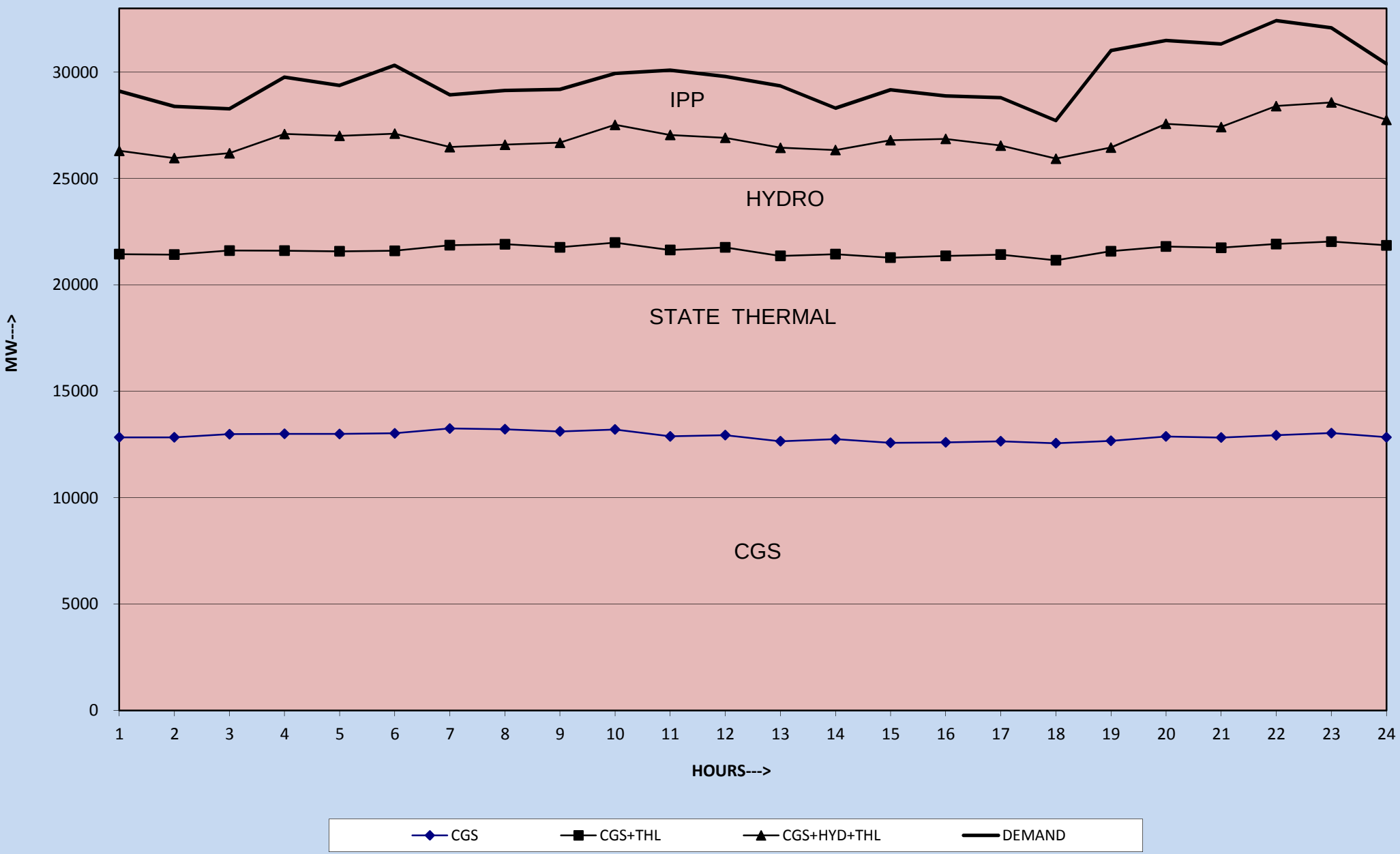
$$\text{FVI} = \frac{10 \sum (F-50)^2}{24 \times 60}$$

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

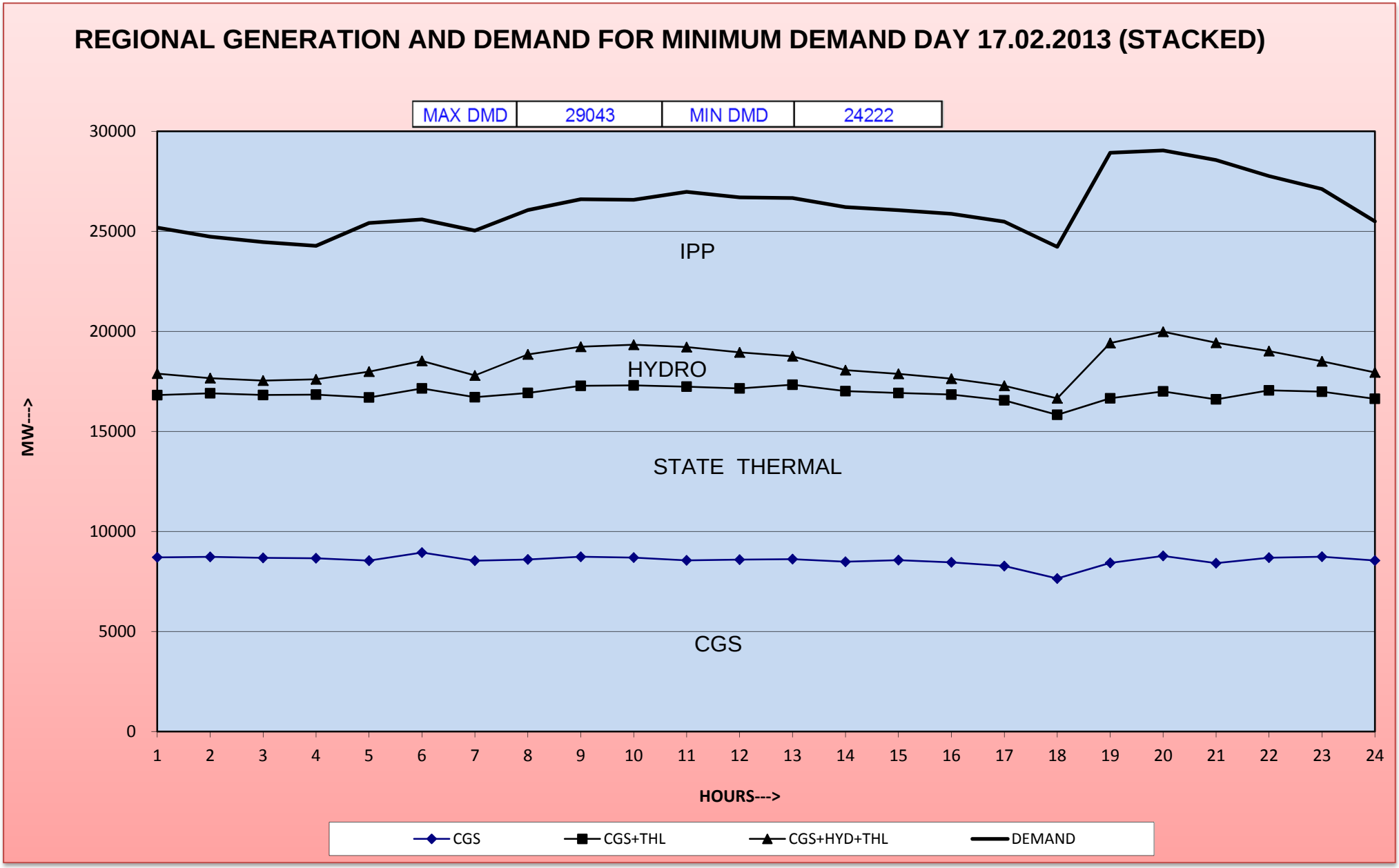

REGIONAL AVAILABILITY DURING THE MONTH OF MARCH 2013
ENERGY IN MUs -->
DAYS -->
CGS
CGS + THERMAL
CGS+THERMAL+HYDRO
CONSUMPTION
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
01/Mar
02/Mar
03/Mar
04/Mar
05/Mar
06/Mar
07/Mar
08/Mar
09/Mar
10/Mar
11/Mar
12/Mar
13/Mar
14/Mar
15/Mar
16/Mar
17/Mar
18/Mar
19/Mar
20/Mar
21/Mar
22/Mar
23/Mar
24/Mar
25/Mar
26/Mar
27/Mar
28/Mar
29/Mar
30/Mar
31/Mar

REGIONAL GENERATION AND DEMAND FOR PEAK DEMAND DAY 28.03.2013 (STACKED)

MAX DMD	32428	MIN DMD	27728

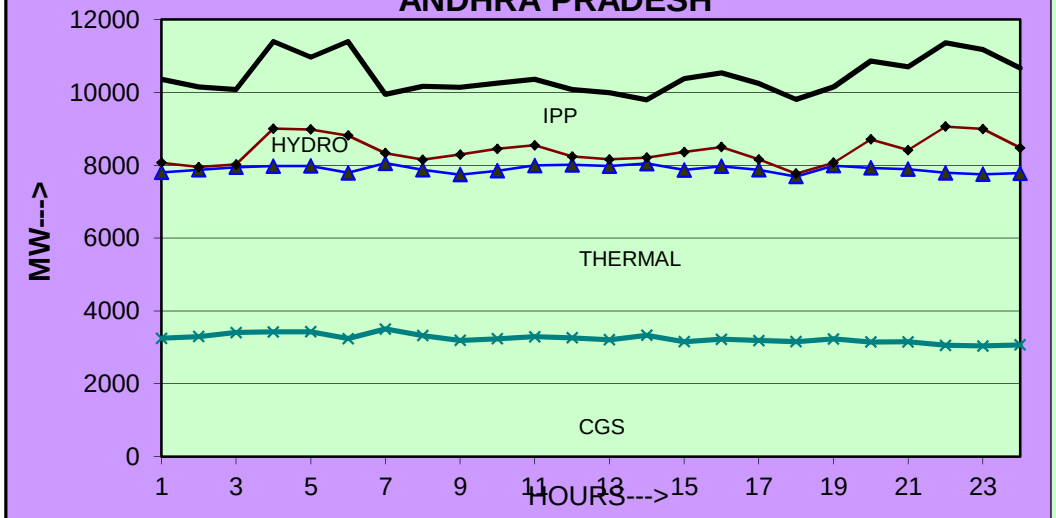


REGIONAL GENERATION AND DEMAND FOR MINIMUM DEMAND DAY 17.02.2013 (STACKED)

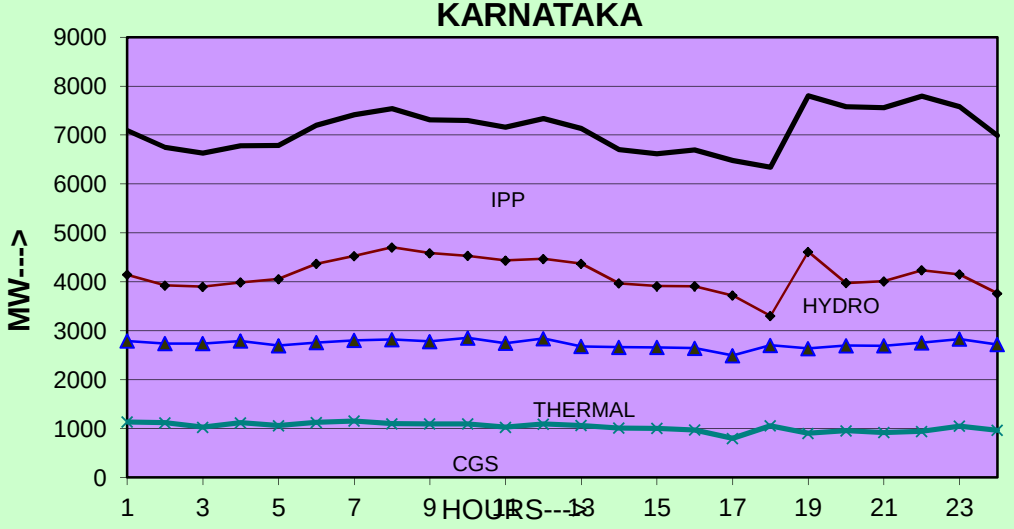


STATEWISE GENERATION AND DEMAND FOR PEAK DEMAND DAY 28.03.2013 (STACKED)

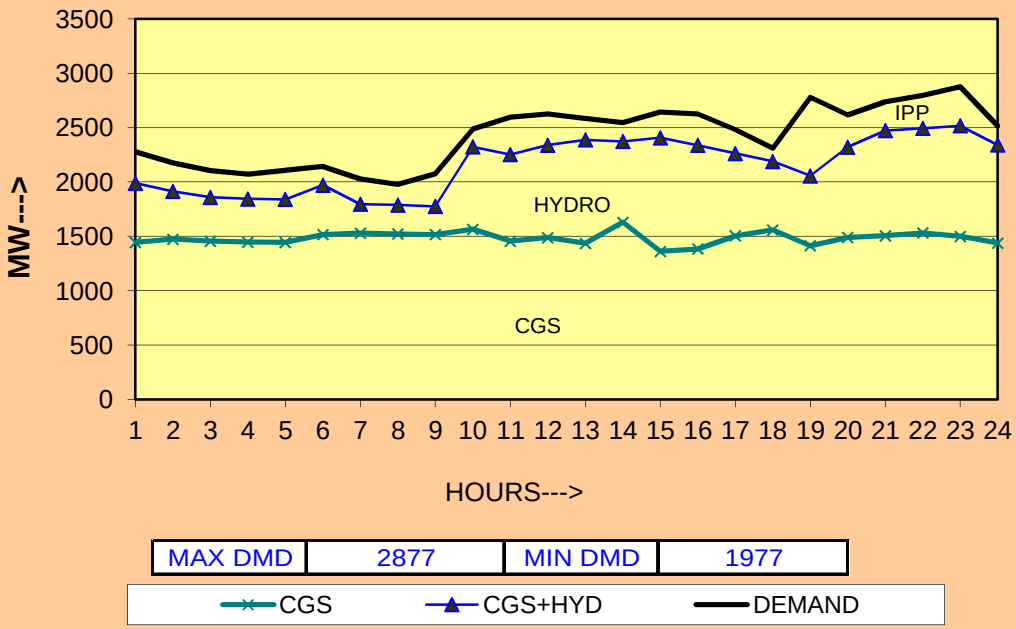
ANDHRA PRADESH



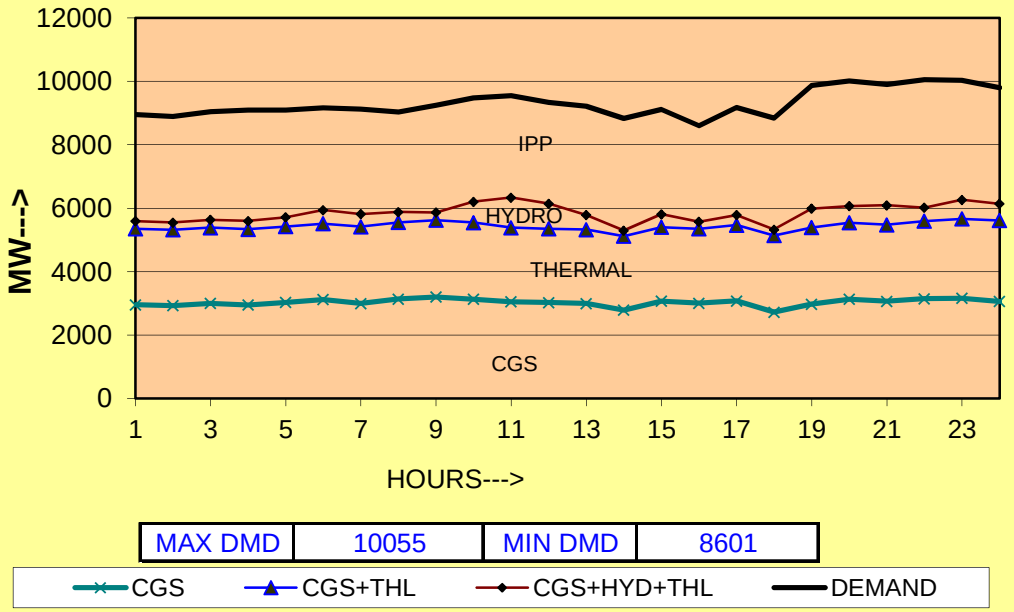
KARNATAKA



KERALA

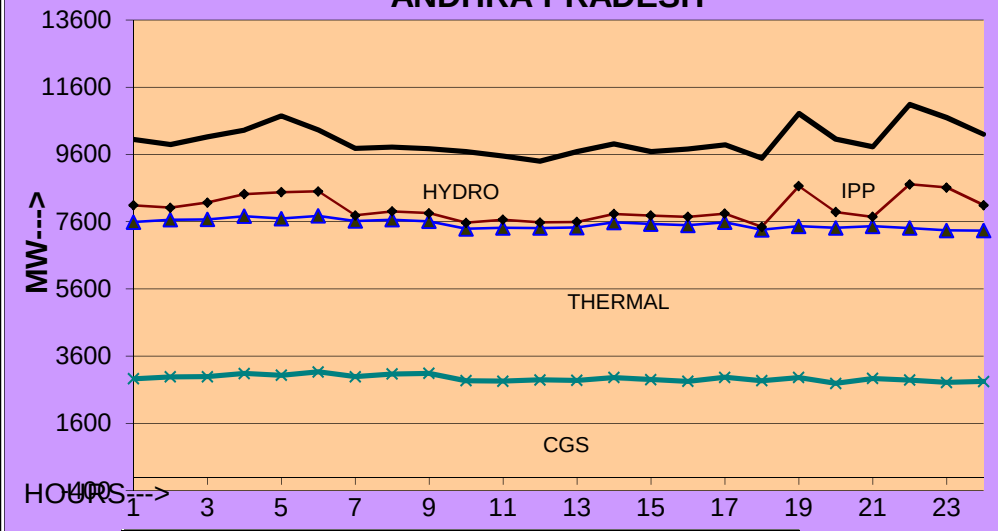


TAMILNADU



STATEWISE GENERATION AND DEMAND FOR MINIMUM DEMAND DAY 17.03.2013(STACKED)

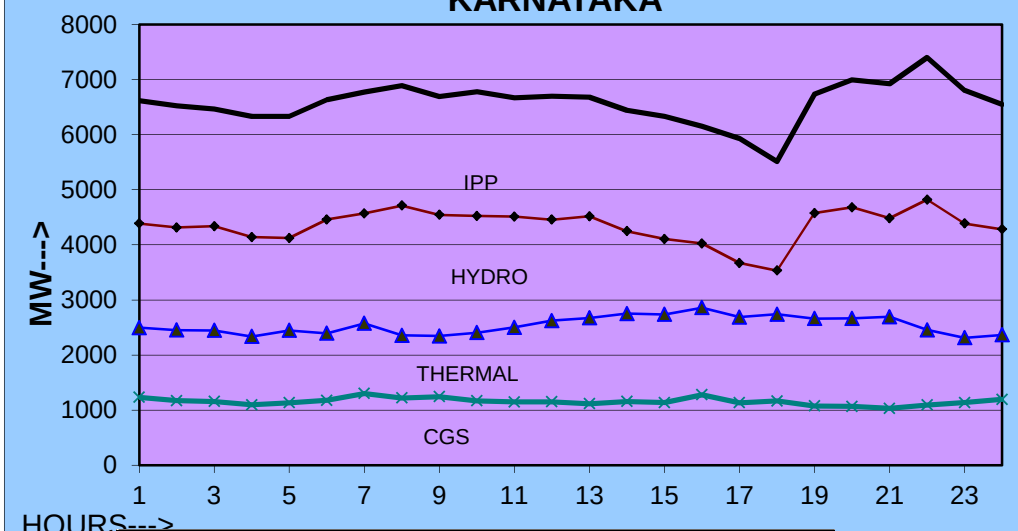
ANDHRA PRADESH



MAX DMD	11079	MIN DMD	9400

CGS — CGS+THL — CGS+HYD+THL — DEMAND

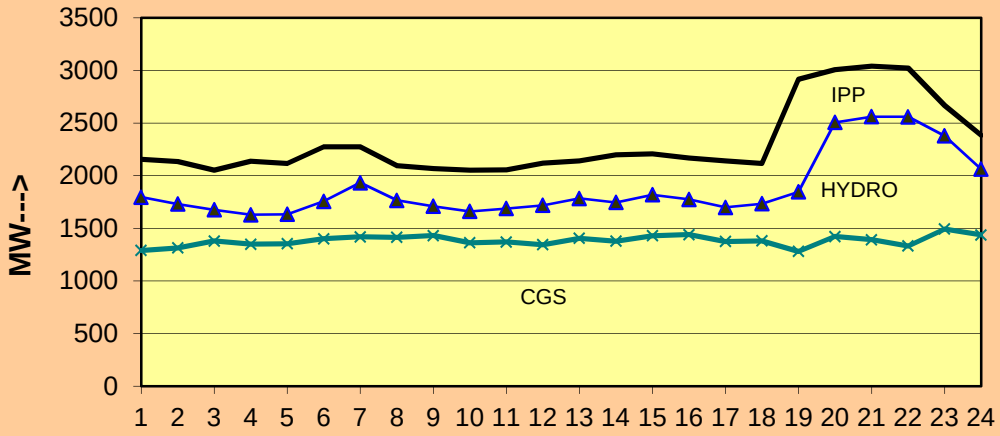
KARNATAKA



MAX DMD	7404	MIN DMD	5514

CGS — CGS+THL — CGS+HYD+THL — DEMAND

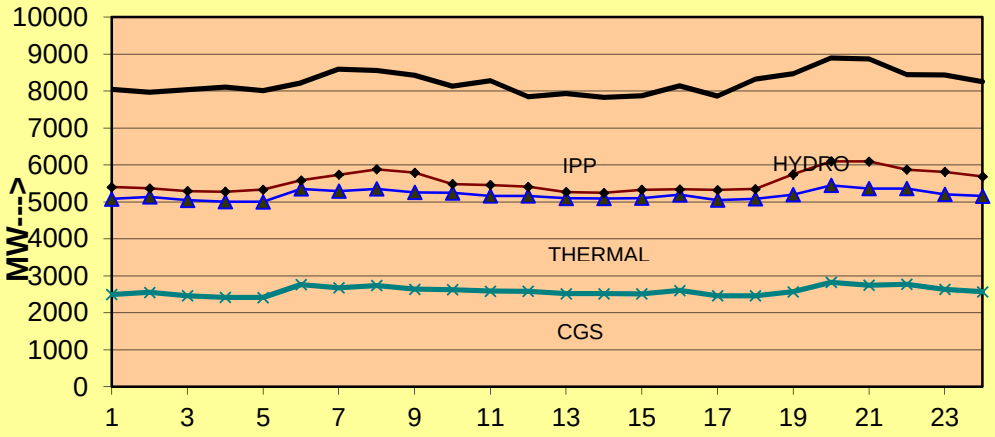
KERALA



MAX DMD	3042	MIN DMD	2051

CGS — CGS+HYD — DEMAND

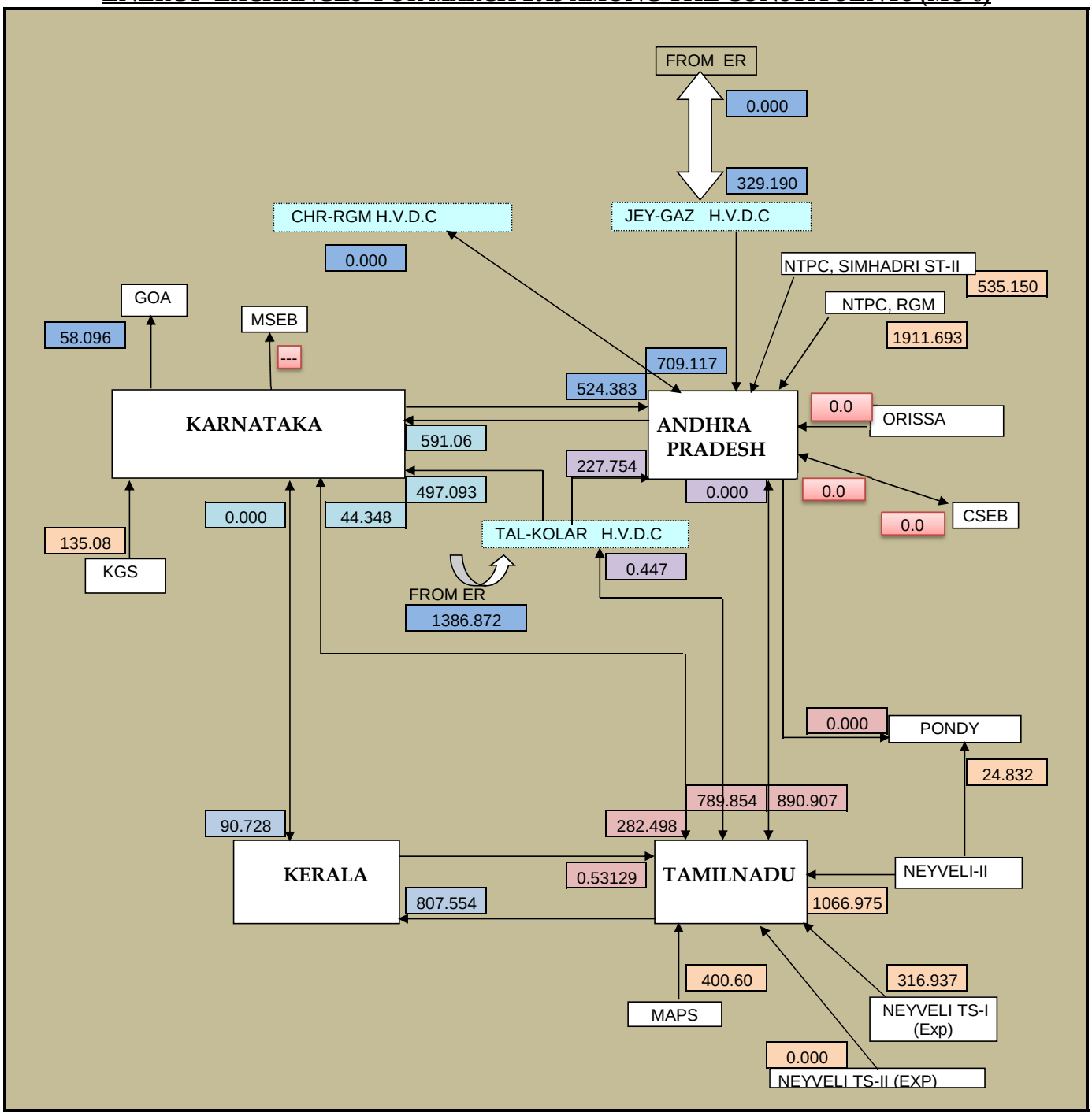
TAMILNADU



MAX DMD	8893	MIN DMD	7830

CGS — CGS+THL — CGS+HYD+THL — DEMAND

ENERGY EXCHANGES FOR MARCH 2013 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. NTTPS, 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	HNPCL (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. NTTPS (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, Survry, Invetigation 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 Bhimghad 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 statuatory clearences. KIADB allotted 400 cares 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	Cheyyur 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 (Mutiara), 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 (Nueclear) :		
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