

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

(पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड की एक पूर्ण स्वामित्व वाली सहायक कंपनी)

POWER SYSTEM OPERATION CORPORATION LIMITED

(A wholly owned subsidiary of Power Grid Corporation of India Limited)

दक्षिण क्षेत्रीय लोड डिस्पैच केन्द्र, 29, रेस कोर्स क्रॉस रोड, बेंगलूर - 560 009

SOUTHERN REGIONAL LOAD DESPATCH CENTRE, 29, RACE COURSE CROSS ROAD, BANGALORE - 560 009.

CID No. U40105DL2009GOI188682



संदर्भ: द.क्षे.भा.प्रे.के./प्रचालन सेवाएं/2014-15 /डी-4/क्यू - 02/
Ref: S R L D C / O S / 2014-15 / D-4 / Q - 02 /

दिनांक 17 अक्टूबर 2014
Date 17 October 2014

To:

सूचि के अनुसार
As per List

विषय/Sub : दक्षिण क्षेत्र के त्रैमासिक रिपोर्ट / Quarterly Reports of SR

Sir,

IEGC के खंड 6.5.2 के अनुसार, क्वार्टर - 2 (जुलाई 2014 से सितम्बर 2014) के दक्षिण क्षेत्र के त्रैमासिक रिपोर्ट आपकी सूचना एवं आवश्यक कार्यवाई के लिए संलग्न है।

As per clause 6.5.2 of IEGC, please find enclosed the Quarterly report of SR for Quarter-2 (July 2014 – September 2014) for favour of information and necessary action.

धन्यवाद सहित / With Regards

आपका विश्वस्त / Yours faithfully

(Handwritten signature)
(वी. सुरेश / V. Suresh)

अपर महाप्रबंधक (प्र.से)/A G M (OS)

संलग्न : उपयोक्तानुसार

DISTRIBUTION:

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ED, SRTS-II, POWERGRID, Bangalore
14. का.नि (एस.ओ), कें.का, नई दिल्ली.
CEO, POSOCO, CC, New Delhi.

POWER SYSTEM OPERATION CORPORATION LIMITED
S.R.L.D.C, BANGALORE
QUARTERLY REPORT

Date: 17 अक्टूबर 2014

For Period: जुलाई 2014 to सितम्बर 2014

YEAR:2014-15/Quarter 2

Brief report on Regional Power System /Performance of the grid is given below:

1. POWER SUPPLY POSITION

a) Peak Demand Met and Unrestricted Demand

Month	State/UT	Peak Demand Met (MW)	Unrestricted Demand (MW)	Shortage (MW)	Shortage (%)
Jul-14	Andhrapradesh	6072	6230	158	2.54
	Telangana	5949	6556	607	9.25
	Karnataka	8137	8228	91	1.11
	Kerala	3218	3373	154	4.57
	Tamilnadu	13293	13298	4	0.03
	Pondicherry	325	327	2	0.56
	S.Region	35380	36409	1029	2.83
Aug-14	Andhrapradesh	6525	6525	0	0.00
	Telangana	6630	7010	380	5.42
	Karnataka	8016	8345	329	3.94
	Kerala	3194	3291	97	2.95
	Tamilnadu	12884	13024	140	1.08
	Pondicherry	318	320	2	0.57
	S.Region	34907	35802	895	2.50
Sep-14	Andhrapradesh	6380	6462	82	1.27
	Telangana	6602	6771	169	2.50
	Karnataka	7973	8290	317	3.82
	Kerala	3410	3550	140	3.94
	Tamilnadu	13200	13204	4	0.03
	Pondicherry	318	320	2	0.63
	S.Region	36030	36850	820	2.23

b) Energy availability and Requirement(MU)

Month	State/UT	Energy met Avg/Day (MU)	Requirement Avg/Day (MU)	Shortage (MU)	Shortage (%)
Jul-14	Andhrapradesh	4011	4201	189.96	4.52
	Telangana	3780	4255	474.93	11.16
	Karnataka	4782	4954	171.50	3.46
	Kerala	1733	1765	32.26	1.83
	Tamilnadu	8532	8557	25.06	0.29
	Pondicherry	206	211	5.48	2.59
	S.Region	23044	23943	899.20	3.76
Aug-14	Andhrapradesh	4270	4353	82.66	1.90
	Telangana	4148	4651	503.50	10.83
	Karnataka	4564	4714	149.99	3.18
	Kerala	1714	1744	30.06	1.72
	Tamilnadu	8015	8078	63.47	0.79
	Pondicherry	193	197	4.30	2.18
	S.Region	22902	23736	833.99	3.51
Sep-14	Andhrapradesh	4005	4049	44.00	1.09
	Telangana	4166	4433	267.00	6.02
	Karnataka	4500	4707	207.00	4.40
	Kerala	1739	1758	19.00	1.08
	Tamilnadu	7922	8081	159.00	1.97
	Pondicherry	195	198	3.00	1.52
	S.Region	22527	23226	699.00	3.01

2. QUALITY OF SERVICE

a) Frequency Profile (% time)

Month	<49.7	<49.7-49.9	49.9-50.05	>50.05-50.20	>50.2
Jul-14	4.37	33.75	49.01	12.40	0.47
Aug-14	4.55	36.67	47.85	10.62	0.32
Sep-14	2.06	29.12	54.60	13.85	0.38

b) Voltage Profile

Month	Ramagundam		Hyderabad		Bangalore		Madras		Neyveli	
	Max(kV)	Min(kV)	Max(kV)	Min(kV)	Max(kV)	Min(kV)	Max(kV)	Min(kV)	Max(kV)	Min(kV)
Jul-14	418	413	424	416	411	400	418	415	409	399
Aug-14	418	402	426	402	419	378	425	402	414	391
Sep-14	423	402	425	399	418	380	425	401	415	394

3. INTER-REGIONAL EXCHANGES(PHYSICAL) in MU

Month	Bhadravati BTB		Gazuwaka BTB		Talcher-Kolar Bipole		Raichur-Sholapur Line	
	Import to SR	Export from SR	Import to SR	Export from SR	Import to SR	Export from SR	Import to SR	Export from SR
Jul-14	722.44	0.00	475.54	0.00	1431.12	0.00	156.68	30.49
Aug-14	690.58	0.00	468.21	0.00	1321.13	0.00	221.92	26.16
Sep-14	702.00	0.00	428.23	0.00	1344.73	0.00	218.95	28.87

4. SCHEDULE Vs ACUAL DRAWAL BY STATES

Month	State/UT	Schedule (MU)	Drawal (MU)	OD(+)/UD(-)
Jul-14	APTRANSCO	1013	1041	27.99
	TSTRANSCO	2122	2218	
	KPTCL	585	590	5.17
	KSEB	847	910	63.32
	TNEB	2447	2441	-6.20
	PONDY	205	206	0.55
	GOA	46	45	-1.00
Aug-14	APTRANSCO	969	1012	42.19
	TSTRANSCO	1934	2018	
	KPTCL	473	482	8.91
	KSEB	867	920	53.19
	TNEB	2165	2177	12.53
	PONDY	195	193	-2.12
	GOA	59	53	-5.28
Sep-14	APTRANSCO	908	950	41.80
	TSTRANSCO	1800	1848	48.31
	KPTCL	605	640	35.02
	KSEB	927	993	65.89
	TNEB	2070	2092	21.60
	PONDY	195	195	-0.24
	GOA	42	43	0.61

5. SUMMARY REPORT

i) IMPORTANT EVENTS

a) COMMISSIONING OF NEW GENERATING UNITS

SL.NO.	STATE/ISGS	STATION NAME	CAPACITY (MW)	TYPE	DATE
1	KSEB	VALINGAD	3x2.5=7.5	HYDRO	15-07-2014
2	IPP	COSTAL ENERGY	600.000	THERMAL	07-09-2014

b) COMMISSIONING OF NEW TRANSMISSION LINES

SL.NO.	CONSTITUENT	LINE NAME	KV	LENGTH	DATE
1	TANTRANSCO	KALIVANTHAPETU-PUGALUR 1	400	369	23-07-2014
2	POWERGRID	THIRUVALAM-MEKATIYUR 1	400	114.35	26-07-2014
3	POWERGRID	THIRUVALAM-MEKATIYUR 2	400	114.35	26-07-2014

c) COMMISSIONING OF NEW SUBSTATIONS

SL.NO.	CONSTITUENT	STATION NAME	KV RATIO	CAPACITY (MVA)	DATE
		NIL			

d) COMMISSIONING OF NEW LINE / BUS REACTORS

SL.NO.	CONSTITUENT	STATION NAME	BUS/LINE	CAPACITY (MVAR)	DATE
1	TNEB	KAYATHAR	LINE	63	26-07-2014
2	TNEB	PUGALUR	LINE	80	23-07-2014
3	TNEB	KALIVANTHAPATTU	LINE	80	23-07-2014

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

i) Grid Separations NIL

ii) Grid Disturbances

1. Details of Grid Disturbances:

S. No.	/ Details of Event	Date & Time	Reason	Remarks	Category
1	Complete outage of 220kV Srisailam right bank station	08-09-2014 on 22:27 hrs.	Fault had occurred near GT#7 which resulted in operation of differential protection. However along with this all running units and transmission lines connected to Srisailam right bank station tripped resulting in complete outage.	Generation loss 640MW	GD-1
2	Complete outage of 220kV Srisailam right bank station	23-09-2014 at 1:14 hrs	Unit#4 R-Phase CT failed which caused tripping of all the elements at Srisailam right bank station.	Generation loss 630MW	GD-1
3	Outage at Kadra and Kodalalli hydro power station	26-09-2014 at 15:50 hrs	De-energization of 220kV bus occurred at Kadra and Kodalalli hydro power station due to tripping of 220kV lines. B-Phase to earth fault had occurred in 220kV Kadra-Kodalalli line. Distance protection at Kadra end had sensed the fault in Zone-1 and cleared the fault from Kadra end. At Kodalalli end, back up earth fault and over current had operated	Generation loss at Kodalalli 38 MW	GD-1
4	Outage at Kadra and Kodalalli hydro power station	05-10-2014 at 17:22 hrs	De-energization of 220kV bus occurred at Kadra and Kodalalli hydro power station due to tripping of 220kV lines. Zone-2, B-phase had operated at kaigaend for 220kV Kaiga-Kodalalli and 220kV Kaiga-Kadra lines	Generation loss at Kodalalli 35 MW	GD-1

2. Transmission Constraints:

S.No	Corridor	Season/Antecedent Co	Description of the constraints
1	400kV Kolar-Hosur DC line	Whole year	North Chennai TPS St-II both units synchronised & Declared CoD. Kadamparai Pump mode operation and Mettur area low generation also causing more flow on these lines. S1-S2 TTC is limited by N-1 of these lines.
2	400kV Hiriyur-Nelamangala DC line	Whole year	With Full generation at Jindal and BTPS, and wind generation high, the flow on 400kV Hiriyur-Nelamangala DC line continuously near to 550MW. Also the 765kV Sholapur-Raichur DC line commissioned without downstream (400kV Gooty-Madhugiri-Yelahanka DC line) Network creating further increasing the flow.
3	400kV Udumalpet-Palakkad DC line	Whole year	^Kerala drawl is mainly through 400kV Udumalpet-Palakkad DC line. Presently the loading these lines is 350-450 MW.
4	400kV Jindal-BTPS SC Line	Whole year	With the full generation at Jindal, 400kV Jindal-BTPS SC line getting loaded beyond 650 MW. Other evacuation paths are 400kV Jindal-Guttur and Two ICTs. But at 220kV side also generation is available.
5	Northern Kerala System	Whole Year except in Monsoon	At present the North Kerala loads are largely fed from 400/220kV Madakathara , 400/220kV Palakkad and through 220kV Kadkola-Kaniyampeta link which is feeding loads of Kaniyampeta, Vadakara and Thali paramba through split bus at Areakode and Kanhirode. The transmission line feeding to these stations are already highly stressed.
6	Constraints in Chennai 230kV System	Whole year	230kV Alamatty-Manali DC line, 230kV Manali-koratur, 230kV Kalavindapattu-S.PKoil, 230kV Kalavindapattu-Siruseri, 230kV NCTPS-ETPS line are severely loaded.