पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

साप्ताहिक रिपोर्ट (12-अगस्त-2013 से 18-अगस्त-2013 तक)
(आई० ई० जी० सी० की धारा संख्या-5.5.1 के अंतर्गत)

रिपोर्टिंग तिथि:- 19/8/2013

1. अधिकतम मांग आपूर्ति और आधिकतम कमी (मे०वा०)

क्षेत्र / दिनांक	उत्तरी क्षेत्र		पश्चिमी क्षेत्र		दक्षिणी क्षेत्र		पूर्वी क्षेत्र		पूर्वोतर क्षेत्र		कुल	
	अधिकतम मांग आपूर्ति	आधिकतम कमी	अधिकतम मांग आपूर्ति	आधिकतम कमी	अधिकतम मांग आपूर्ति	आधिकतम कमी	अधिकतम मांग आपूर्ति	आधिकतम कमी	अधिकतम मांग आपूर्ति	आधिकतम कमी	अधिकतम मांग आपूर्ति	आधिकतम कमी
	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)
12/8/2013	38704	1875	33147	200	29080	4224	15668	656	1855	251	118454	7206
13/8/2013	38935	2165	33138	226	29906	2010	15898	525	1858	250	119735	5176
14/8/2013	36760	2000	33317	280	30365	1296	16112	33	1851	214	118405	3823
15/8/2013	32420	2155	30149	194	28318	975	14633	34	1858	242	107378	3600
16/8/2013	35002	1930	32751	370	29522	1260	15568	250	1878	260	114721	4070
17/8/2013	34582	1850	32955	328	29040	750	15205	100	1860	287	113642	3315
18/8/2013	34264	1400	31554	336	27773	634	14764	467	1832	246	110187	3083

2. ऊर्जा आपूर्ति और पनबिजली उत्पादन (मि०यू०)

क्षेत्र / तिथि	उत्तरी क्षेत्र		पश्चिमी क्षेत्र		दक्षिणी क्षेत्र		पूर्वी क्षेत्र		पूर्वोतर क्षेत्र		कुल	
	ऊर्जा आपूर्ति	पनबिजली उत्पादन	ऊर्जा आपूर्ति	पनबिजली उत्पादन	ऊर्जा आपूर्ति	पनबिजली उत्पादन	ऊर्जा आपूर्ति	पनबिजली उत्पादन	ऊर्जा आपूर्ति	पनबिजली उत्पादन	ऊर्जा आपूर्ति	पनबिजली उत्पादन
	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)
12/8/2013	897	296	727	103	670	168	312	68	34	21	2641	656
13/8/2013	882	291	725	106	684	166	332	73	36	20	2658	656
14/8/2013	861	290	733	119	698	155	330	72	37	19	2659	653
15/8/2013	749	289	672	104	646	132	315	74	35	19	2417	617
16/8/2013	768	313	706	108	652	142	318	76	35	18	2478	657
17/8/2013	758	298	728	88	647	164	314	74	36	19	2483	642
18/8/2013	763	308	703	112	635	157	306	73	35	19	2441	669

3. आवृति (प्रतिशत समय में)

तिथि	49.7-49.8		<49.7		49.7-50.2		>50.2		Average		FVI	
	न्यू ग्रिड	दक्षिण ग्रिड	न्यू ग्रिड	दक्षिण ग्रिड	न्यू ग्रिड	दक्षिण ग्रिड	न्यू ग्रिड	दक्षिण ग्रिड	न्यू ग्रिड	दक्षिण ग्रिड	न्यू ग्रिड	दक्षिण ग्रिड
12/8/2013	0.6	4.4	0.0	0.7	66.2	93.4	33.8	5.9	50.14	50.02	0.37	0.17
13/8/2013	0.1	4.0	0.0	0.8	76.9	90.0	23.1	9.2	50.12	50.02	0.27	0.19
14/8/2013	0.6	5.9	0.2	0.9	83.2	84.7	16.6	14.4	50.19	50.05	0.48	0.23
15/8/2013	0.6	0.6	0.0	0.0	37.5	78.0	62.5	22.0	50.35	50.12	1.56	0.28
16/8/2013	1.0	1.5	0.0	0.0	61.1	66.4	38.9	33.6	50.15	50.14	0.47	0.39
17/8/2013	1.4	7.0	0.1	3.1	74.2	81.8	25.7	15.1	50.11	50.02	0.29	0.28
18/8/2013	1.3	1.8	0.8	0.6	63.6	86.3	35.6	13.2	50.14	50.07	0.40	0.22

4. New Element Commissioned:-

1) On 17.08.13, 400 kV bay at Berhampur of 400 kV Jeerat - Berhampur charged at 15: 55 hrs.
2) On 17.08.13, 400 kV Bus-I at Berhampur charged at 15:55 hrs.
3) On 17.08.13, 400 kV bay at Berhampur of 400 kV Berhampur -Farakka line charged at 17:58 hrs and synchronised at Farakka at 17:59 hrs.
4) On 17.08.13, 400 kV, 80MVAR bus reactor charged at Berhampur at 20:10 hrs.

GM (SO)

5. Maximum Demand Met during the day & Peak Hour Shortage in States (in MW)

Region	Date	12/8/2013		13/8/2013		14/8/2013		15/8/2013		16/8/2013		17/8/2013		18/8/2013	
	States	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage
NR	Punjab	8258	0	8342	0	8271	0	6111	0	5812	0	5649	0	6089	0
	Haryana	7182	0	7017	0	6512	0	5779	0	5904	0	6161	0	5916	0
	Rajasthan	6068	0	6134	0	6037	0	5563	0	5821	0	5878	0	5799	0
	Delhi	4405	0	4341	0	4330	0	3756	0	4090	0	3783	0	3772	0
	UP	10464	1580	10628	1830	10605	1830	10556	0	10377	1830	10081	1750	10404	1300
	Uttarakhand	1483	195	1452	235	1546	70	1396	0	1591	0	1636	0	1554	0
	HP	1092	0	1109	0	1175	0	1006	0	1093	0	1107	0	1049	0
	J&K	1436	100	1335	100	1218	100	1227	0	1463	100	1738	100	1470	100
	Chandigarh	278	0	255	0	275	0	252	0	264	0	236	0	234	0
WR	Chhattisgarh	2699	13	3091	8	3012	7	2895	0	2686	13	2533	13	2487	13
	Gujarat	9065	49	9053	34	8806	22	8026	0	8908	52	9078	80	8789	71
	MP	5638	12	5685	2	5755	0	5716	0	5833	14	5670	14	5392	13
	Maharashtra	14400	123	13998	181	14157	251	12564	0	13838	287	14378	217	13795	235
	Goa	371	1	406	0	398	0	324	0	396	1	370	1	340	1
	DD	255	0	255	0	269	0	237	0	258	1	258	0	260	1
	DNH	643	1	643	0	639	0	613	0	640	2	651	2	652	2
	Essar steel	388	1	388	0	392	0	384	0	380	1	380	1	367	1
SR	Andhra Pradesh	10668	2500	10503	50	10972	0	10355	0	10088	0	9954	0	9817	0
	Karnataka	6707	1000	6773	1200	7242	600	7094	0	6963	600	6779	300	6528	400
	Kerala	3034	150	3058	150	3069	150	2932	0	3046	150	2957	150	2799	0
	Tamil Nadu	10363	574	10713	590	10816	546	9718	0	10620	510	10650	300	10063	234
	Pondy	306	0	282	20	293	0	236	0	243	0	267	0	269	0
ER	Bihar	2107	350	2125	250	2060	0	2018	0	1919	250	1934	100	1987	400
	DVC	2704	75	2628	35	2635	0	2535	0	2605	0	2480	0	2538	55
	Jharkhand	1012	0	924	0	1007	0	871	0	900	0	935	0	902	0
	Odisha	3587	200	3650	200	3659	0	3621	0	3600	0	3356	0	3421	0
	West Bengal	6884	31	6940	40	7027	33	6145	0	7026	0	6760	0	6348	12
	Sikkim	94	0	91	0	112	0	66	0	94	0	76	0	74	0
NER	Arunachal Pradesh	98	2	92	1	95	1	111	0	106	8	99	3	87	15
	Assam	1145	114	1115	157	1111	130	1123	0	1135	153	1115	181	1120	121
	Manipur	115	3	106	2	103	2	98	0	105	1	103	2	97	8
	Meghalaya	235	5	255	5	245	1	238	0	248	15	257	6	234	10
	Mizoram	57	3	53	2	50	3	53	0	50	5	54	1	53	2
	Nagaland	99	1	94	1	92	3	99	0	97	3	97	1	103	7
	Tripura	206	10	180	34	174	44	170	0	170	36	178	40	178	34

6. Energy Consumption in States (MUs)

Region	States	12/8/2013	13/8/2013	14/8/2013	15/8/2013	16/8/2013	17/8/2013	18/8/2013
NR	Punjab	187.5	183.7	176.2	127.3	130.2	122.7	127.7
	Haryana	151.3	150.5	143.6	118.3	121.8	121.7	121.8
	Rajasthan	137.6	135.4	129.7	122.5	117.2	117.7	120.3
	Delhi	97.3	93.3	91.7	73.4	83.8	81.6	79.9
	UP	236.1	237.8	237.1	231.8	229.2	225.2	226.9
	Uttarakhand	32.1	28.7	32.0	30.0	33.1	34.0	33.0
	HP	22.6	23.7	24.3	20.4	22.7	23.0	22.4
	J&K	26.9	23.2	21.4	20.4	24.9	27.5	26.7
	Chandigarh	5.6	5.3	5.5	4.9	5.1	4.8	4.5
WR	Chhattisgarh	61.1	64.9	67.1	65.9	61.0	60.2	55.1
	Gujarat	197.4	198.8	198.8	178.7	192.1	200.3	197.7
	MP	114.8	113.0	116.3	115.1	116.0	114.0	107.7
	Maharashtra	316.3	310.5	313.8	283.4	301.4	317.2	305.5
	Goa	7.7	7.7	7.7	6.8	7.7	7.8	6.4
	DD	6.1	6.1	6.2	4.2	5.5	5.5	6.3
	DNH	15.2	15.2	15.1	9.7	14.0	15.0	15.4
	Essar steel	8.7	8.7	8.2	8.1	8.3	8.3	8.4
SR	Andhra Pradesh	235.1	241.7	248.1	227.5	222.7	221.5	220.6
	Karnataka	144.0	147.3	151.5	145.5	141.5	139.8	137.2
	Kerala	55.3	55.6	55.2	53.1	55.2	55.4	51.3
	Tamil Nadu	229.6	233.7	237.9	215.0	228.4	225.3	219.7
	Pondy	5.9	5.4	5.6	4.7	4.6	5.0	6.4
ER	Bihar	41.7	43.4	43.3	41.8	40.4	41.5	41.7
	DVC	57.5	61.0	59.3	58.5	56.8	56.6	55.5
	Jharkhand	19.2	20.0	20.4	19.6	18.9	18.9	18.5
	Odisha	68.9	69.2	70.1	71.5	70.9	68.0	67.6
	West Bengal	124.0	137.5	135.0	122.9	128.6	128.3	121.2
	Sikkim	1.2	1.1	1.3	0.9	1.9	0.9	0.9
NER	Arunachal Pradesh	1.1	1.2	1.7	1.4	1.3	1.3	1.6
	Assam	21.1	23.7	23.4	21.7	21.7	22.9	22.2
	Manipur	1.6	1.2	1.3	1.5	1.4	1.3	1.3
	Meghalaya	4.7	4.3	4.5	4.3	4.3	4.6	3.8
	Mizoram	1.0	1.0	1.1	1.0	1.0	1.0	1.0
	Nagaland	1.4	1.2	1.3	1.5	1.5	1.3	1.7
	Tripura	3.2	3.0	3.2	3.3	3.2	3.3	3.3

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
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साप्ताहिक रिपोर्ट (12-अगस्त-2013 से 18-अगस्त-2013 तक)
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7. अंतर्क्षेत्रीय विनिमय

Import=(+ve) /Export =(-ve)
In Energy (MU)

दिनांक	12/8/2013	13/8/2013	14/8/2013	15/8/2013	16/8/2013	17/8/2013	18/8/2013
ER-NR	-34.4	-30.0	-27.1	-25.2	-25.2	-26.0	-24.1
ER-WR	-0.6	3.1	5.0	0.6	0.6	1.6	1.6
ER-SR	-11.2	-18.5	-22.2	-19.1	-14.8	-12.7	-14.1
ER-NER	-0.7	-4.5	-5.0	-3.4	-3.7	-5.1	-4.8
WR-NR	-16.4	-19.2	-11.9	8.5	3.5	5.7	7.4
WR-SR	-18.7	-19.0	-22.0	-21.0	-22.0	-18.1	-16.9

Note:- IR Flow/transaction is from first region to second region, e.g. ER-NR means ER with NR.

8). Major Grid Incidences(Provisional):-

Outage		Region	Name of Element	Owner / Agency	Event	Generation/Load Loss	Revival		Category as per CEA Grid Standards
Date	Time						Date	Time	
12.08.13	2337 hrs	ER	132 KV Rangit-Kurseong-Siliguri 132 KV Rangit-Rammam 132 KVRangit-Melli 132 KV Rangit-Gangtok 132 KV Siliguri-Melli 132 KV Chuzachen-Gangtok 132 KV Chuzachen-Melli 132 KV Rammam-Lebong-NBU 132 KV Rammam-NBU Rangit U#1,2,3 Chuzachen U# 1,2 Rammam U # 1,2,3,4	Sikkim/WB	It appears that 132 KV Rangit- Kurseong line became overloaded after tripping of Rammam-NBU and Rammam-Lebong-NBU lines. Rangit-Kurseong line tripped on O/C relay indication.Tripping of a large number of 132 KV lines in the area led to loss of load causing generation-load mismatch. This led to tripping of all the generating units on overspeed.	Load Loss=85 MW Generation Loss=185 MW	0159 hrs	13.08.13	GD-I
13.08.13	1602 hrs	NER	220/132 KV,160 MVA ICT at KOPILI 220 KV Misa-Byrnihat D/C 132 KV Dimapur-Imphal	NER/PG	Tripping of 220 KV Misa-Byrnihat D/C resulted in tripping of 132 KV Dimapur-Imphal on O/C which led to the tripping of generating units and loss of load in NER region	Generation Loss=430 MW Load Loss=496	13.08.13	1631 hrs	GD-IV
13.08.13	0209 hrs	SR	400 KV Srisailem-Mamidapalli D/C 400 kV Srisailem-Kurnool 400 KV Srisailem-BTPS-I Srisailem Unit#1	APGENCO/PG	Due to O/V all the lines from 400 KV Srisailem S/S tripped and led to the generation loss.	Generaion Loss=100MW	13.08.13	0549 hrs	GD-I
14.08.13	1512 hrs	ER	132 kV Rangit-Rammam 132 kV Rangit-Melli 132 kV Siliguri-Melli Chuzachen Unit#1 & 2 Rangit Unit#1, 2 & 3 Rammam Unit #1, 2, 3 & 4	WB/Sikkim	Flashover occurred in CT of 132 kV Rammam-Lebong led to the tripping of generating unit and loss of load in ER region	Generation Loss=150MW Load Loss=65MW	14.08.13	1557 hrs	GD-I
14.08.13	1609 hrs	ER	132 kV Siliguri-Kurseong 132 kV Kurseong-Rangit 132 kV Siliguri-Melli 132 kV Chuzachen-Melli 132 kV Rangit-Gangtok Chuzachen Unit #1 Rangit Unit#1,2,3	WB/Sikkim	R-N fault occurred in 132 kV Siliguri-Kurseong & 132 kV Siliguri-Melli led to the tripping of generating unit on load generation mismatch.	Generation Loss=90MW	14.08.13	1714 hrs	GD-I
15.08.13	1102 hrs	NER	132 kV Imphal(PG)-Imphal 132 kV Loktak-Ningthoukhong	Manipur	132 kV Imphal(PG)-Imphal & 132 kV Loktak-Ningthoukhong tripped, led to power collapsed in part of Manipur and part of Nagaland states.	Generation Loss=18MW Load Loss=86MW	15.08.13	1115 hrs	GD-I
15.08.13	1436 hrs	NER	132 kV Loktak-Imphal-II 132 kV Loktak-Ningthoukhong 132 kV Loktak-Jiribam-II	Manipur	132 kV Loktak-Imphal-II, 132 kV Loktak-Ningthoukhong & 132 kV Loktak-Jiribam-II tripped and caused power interruption in part of Manipur.	Generation Loss=40MW Load Loss=105MW	15.08.13	1504 hrs	GD-I
16.08.13	1919 hrs	ER	132 kV Rangit-Melli 132 kV Siliguri-Melli 132 kV Melli-Chuzachen Chuzachen Unit#1 & 2	Sikkim/WB	132 kV Rangit-Melli tripped on directional earth fault and subsequently 132 kV Melli-Siliguri & 132 kV Melli-Chuzachen alongwith 2 running units of Chuzachen tripped.	Generation Loss=50MW Load Loss=44MW	16.08.13	2024 hrs	GD-I
17.08.13	1111 hrs	NER	132 kV Loktak-Jiribam-II 132 kV Loktak-Ningthoukhong 132 kV Loktak-Imphal(PG)	Manipur	132 kV Loktak-Jiribam-II, 132 kV Loktak-Ningthoukhong & 132 kV Loktak-Imphal(PG) tripped and caused power interruption in Loktak.	Generation Loss=105MW	17.08.13	1143 hrs	GD-I
18.08.13	1254 hrs	NR	400 kV Unnao-Bareilly-I 400 kV Unnao-Lucknow(PG)-I 400 kV Unnao-Panki ICT-I(1000 MVA) at Unnao ICT-I(315 MVA) at Unnao	UPPCL/PG	Due to Bus-B fault at Unnao sub-station, given lines and ICTs tripped	Load Loss=NIL	18.08.13	1446 hrs	-