पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

साप्ताहिक रिपोर्ट (29-जुलाई-2013 से 04-अगस्त-2013 तक)
(आई० ई० जी० सी० की धारा संख्या-5.5.1 के अंतर्गत)

रिपोर्टिंग तिथि:- 5/8/2013

1. अधिकतम मांग आपूर्ति और आधिक्तम 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)
29/07/13	40398	3059	29217	283	29627	2042	15211	21	1862	286	116315	5691
30/07/13	40771	3869	31433	260	29378	2378	15375	121	1835	301	118792	6929
31/07/13	40614	3095	31484	141	28585	1496	15270	350	1856	260	117809	5342
1/8/2013	39717	3701	31404	117	28910	1629	15510	17	1842	303	117383	5767
2/8/2013	39979	2678	31105	228	29493	1408	15123	365	1852	245	117552	4924
3/8/2013	40295	3374	31781	272	28734	1247	15004	327	1761	354	117575	5574
4/8/2013	40036	2702	30262	363	27826	1061	15072	364	1798	250	114994	4740

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)
29/07/13	940	299	686	107	692	124	301	68	36	16	2655	613
30/07/13	926	308	694	115	698	128	306	74	35	16	2660	641
31/07/13	932	302	685	106	678	138	312	83	33	17	2640	646
1/8/2013	903	291	677	116	675	150	311	70	36	17	2603	644
2/8/2013	932	296	671	98	691	170	318	71	36	16	2648	651
3/8/2013	950	290	680	107	700	185	322	78	36	15	2687	675
4/8/2013	938	302	675	111	672	174	314	80	36	16	2635	683

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
29/07/13	3.2	1.7	0.8	0.5	92.3	85.1	6.9	14.4	50.02	50.09	0.15	0.22
30/07/13	0.7	7.5	0.5	1.2	89.6	92.6	9.9	6.2	50.06	49.98	0.15	0.19
31/07/13	0.6	1.2	0.1	0.6	73.0	69.4	26.9	29.9	50.11	50.12	0.28	0.38
1/8/2013	1.9	2.0	0.7	0.1	81.3	77.6	18.0	22.2	50.08	50.11	0.24	0.28
2/8/2013	2.1	2.6	0.3	1.0	82.8	77.3	16.9	21.7	50.08	50.09	0.21	0.30
3/8/2013	1.7	3.3	0.6	0.6	84.3	77.6	15.1	21.7	50.07	50.10	0.21	0.31
4/8/2013	0.6	1.0	0.0	0.4	93.7	78.8	6.3	20.8	50.01	50.09	0.16	0.30

4. New Element Commissioned:-

On01.08.13, various new elements has been charged at Raigarh Pooling Station (Kotra)(765/400 kV):-
i). 80 MVAR Bus Reactor at 0001 hrs from 400 kV side.
ii). 1500 MVA 765/400 kV ICT at 0105 hrs from 400 kV side and 765 kV bus-I has been energised through it at '0143 hrs.
iii). 240 MVAR Line Reactor of 765 kV Kotra-Raipur-I has been charged as Bus Reactor at 0205 hrs.

DGM (SO) 5/8/13

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

Region	Date	29/07/13		30/07/13		31/07/13		1/8/2013		2/8/2013		3/8/2013		4/8/2013	
	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	8623	875	8850	870	8647	1015	8393	690	8220	615	8206	915	8225	765
	Haryana	7410	0	7349	0	7348	0	6826	0	7304	9	7410	9	7149	17
	Rajasthan	6174	184	6161	126	5970	0	6029	0	6362	64	6434	0	6337	0
	Delhi	4932	0	4828	131	4508	0	4646	0	4783	0	4709	0	4853	0
	UP	11112	1900	11444	2612	11629	1900	11209	0	11709	1890	11831	2350	11916	1820
	Uttarakhand	1590	0	1564	30	1420	80	1580	0	1670	0	1611	0	1538	0
	HP	1172	0	1162	0	1153	0	1106	0	1152	0	1136	0	1025	0
	J&K	1581	100	1539	100	1594	100	1581	0	1527	100	1560	100	1610	100
	Chandigarh	799	0	249	0	319	0	319	0	290	0	288	0	264	0
WR	Chhattisgarh	2660	40	2454	37	2564	27	2644	0	2745	38	2640	41	2564	163
	Gujarat	8473	72	8866	70	8827	49	8634	0	8444	63	8588	73	8235	65
	MP	5283	26	5495	23	5281	0	5277	0	5459	21	5665	30	5621	24
	Maharashtra	11440	108	13666	108	13557	50	13230	0	13053	100	13684	120	12936	105
	Goa	412	2	424	2	378	0	357	0	380	1	367	2	352	1
	DD	252	1	253	1	250	0	241	0	248	1	253	1	248	1
	DNH	584	33	618	18	639	15	618	0	602	2	635	3	618	3
	Essar steel	424	23	414	15	426	5	428	0	401	16	344	21	321	1
SR	Andhra Pradesh	10932	500	10296	1000	10367	500	10359	0	10623	0	10864	0	10699	0
	Karnataka	6489	850	6622	600	6573	400	6701	0	6626	700	6572	500	6254	500
	Kerala	2934	150	2915	150	3024	0	2814	0	2863	150	2827	150	2681	0
	Tamil Nadu	11493	542	11551	588	11794	566	11502	0	11765	558	11191	567	10674	561
	Pondy	323	0	307	40	304	30	307	0	319	0	308	30	292	0
ER	Bihar	1979	0	2011	100	2031	0	2040	0	2082	350	1914	300	2072	300
	DVC	2621	0	2773	0	2468	350	2498	0	2664	0	2549	0	2608	0
	Jharkhand	999	0	1026	0	946	0	938	0	965	0	957	0	1007	0
	Odisha	3494	0	3450	0	3548	0	3399	0	3238	0	3607	0	3573	0
	West Bengal	6533	21	6692	21	6692	0	6840	0	6920	15	6695	27	6480	64
	Sikkim	84	0	74	0	87	0	82	0	87	0	80	0	63	0
NER	Arunachal Pradesh	104	1	88	4	80	5	81	0	80	5	88	2	95	3
	Assam	1096	207	1120	181	1125	184	1120	0	1115	210	1048	265	1110	116
	Manipur	109	1	113	1	95	6	106	0	104	6	118	2	109	1
	Meghalaya	250	1	249	2	252	13	259	0	255	1	253	10	250	7
	Mizoram	57	1	56	2	54	2	55	0	55	1	47	1	48	2
	Nagaland	101	1	93	4	96	1	89	0	95	2	90	7	85	3
	Tripura	177	44	192	22	175	23	188	0	209	13	183	40	205	18

6. Energy Consumption in States (MUs)

Region	States	29/07/13	30/07/13	31/07/13	1/8/13	2/8/13	3/8/13	4/8/13
NR	Punjab	197.9	198.3	198.4	186.0	182.3	188.7	189.6
	Haryana	164.0	159.1	159.2	151.3	155.5	164.7	158.0
	Rajasthan	132.3	132.2	135.9	135.4	149.1	150.9	148.7
	Delhi	102.6	102.5	96.9	97.1	102.1	97.8	94.4
	UP	247.9	246.0	250.9	246.5	252.9	256.7	259.1
	Uttarakhand	32.7	31.9	28.9	27.8	33.4	33.3	31.4
	HP	24.1	25.1	24.7	23.8	24.1	23.4	22.0
	J&K	30.8	26.1	31.0	28.8	26.7	28.4	29.5
	Chandigarh	7.3	5.2	6.3	6.3	5.8	5.7	5.3
WR	Chhattisgarh	59.9	55.7	55.5	58.2	57.0	56.8	58.5
	Gujarat	186.8	188.6	190.9	192.0	188.3	185.4	181.4
	MP	104.9	109.9	105.4	106.4	111.3	112.2	114.2
	Maharashtra	297.7	302.3	295.5	284.7	277.6	290.3	286.2
	Goa	8.2	8.4	7.7	6.8	7.7	7.5	7.0
	DD	6.0	6.0	5.9	5.9	6.0	6.0	6.0
	DNH	13.7	14.4	14.8	14.4	14.3	14.2	14.9
	Essar steel	9.1	9.0	9.2	8.7	8.8	7.4	6.9
SR	Andhra Pradesh	243.6	238.0	220.2	223.3	234.8	247.8	247.7
	Karnataka	134.9	137.4	137.5	137.2	140.8	140.6	131.4
	Kerala	52.6	54.4	55.6	50.8	49.0	51.9	47.8
	Tamil Nadu	254.8	261.6	258.5	257.4	260.1	252.9	238.4
	Pondy	6.5	6.5	6.5	6.6	6.7	6.6	6.3
ER	Bihar	40.0	41.1	41.7	41.1	45.0	43.7	40.2
	DVC	57.6	55.7	55.4	54.5	57.2	57.9	56.5
	Jharkhand	18.8	19.1	18.9	19.3	20.0	20.0	18.8
	Odisha	66.5	62.2	67.0	66.2	64.8	67.2	68.6
	West Bengal	117.5	126.4	127.8	128.9	129.5	133.0	129.2
	Sikkim	1.1	1.3	1.3	1.2	1.2	0.6	0.8
NER	Arunachal Pradesh	1.1	1.2	1.1	1.2	1.1	1.2	1.0
	Assam	23.0	23.2	21.0	23.6	23.3	23.0	24.1
	Manipur	1.5	1.3	1.2	1.2	1.6	1.6	1.3
	Meghalaya	4.5	4.4	4.6	4.4	4.0	4.0	4.3
	Mizoram	1.0	1.0	1.0	1.0	1.1	1.0	0.7
	Nagaland	1.4	1.3	1.4	1.6	1.7	1.6	1.5
	Tripura	3.1	3.0	3.2	3.2	3.4	3.1	3.1

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

साप्ताहिक रिपोर्ट (29-जुलाई-2013 से 04-अगस्त-2013 तक)
(आई० ई० जी० सी० की धारा संख्या-5.5.1 के अंतर्गत)

7. अंतर्क्षेत्रीय विनिमय

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

दिनांक	29/07/13	30/07/13	31/07/13	1/8/13	2/8/13	3/8/13	4/8/13
ER-NR	-44.9	-40.9	-37.1	-33.9	-39.0	-36.3	-36.4
ER-WR	-6.8	-0.5	3.8	6.2	6.9	5.4	12.0
ER-SR	-17.3	-21.1	-19.8	-22.1	-18.3	-16.9	-19.7
ER-NER	-6.8	-8.2	-4.9	-6.4	-7.3	-8.6	-8.8
WR-NR	-49.4	-41.6	-45.2	-42.8	-40.3	-40.6	-32.3
WR-SR	-17.8	-18.2	-17.7	-17.0	-17.0	-19.3	-19.8

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

8). Major Grid Incidences

Outage		Region	Name of Element	Owner / Agency	Event	Generation/Load Loss	Revival		Category as per CEA Grid Standards
Date	Time						Date	Time	
30.07.13	1005hrs	NER	132 KV Network of Tripura,Manipur,Mizoram,South Assam	NER/POWERGRID	At 1003hrs emergency shutdown of 400kV Silchar-Byrnihat S/C line was availed by NERTS.After opening of 400kV Silchar-Byrnihat line only available connectivity i.e 132kV Dimapur-Imphal S/C line got overloaded and tripped at 10:05 hrs leading to collapse of 132kV pocket comprising of Tripura,Mizoram,Manipur and South Assam due to load generation mismatch .Loktak,Khandong and RC Nagar tripped on low frequency.	Gen. Loss=284 MW Load Loss= 301 MW	30.07.13	1032hrs	GD-I
31.07.13	0001hrs	ER	i) 2 x 100MVA ,220/132KV ATR at Therubali. ii) 220KV Indravati- Therubali –II, III & IV (ckt-I was already under shutdown) iii) 220KV Therubali- Narendrapur- I & II. iv) 220KV Therubali – Bhanjnagar –I & II. v) 220 KV Therubali- Jaynagar –I & II. vi) 220 KV Therubali – Jaynagar- U. Kolab.	GRIDCO	Due to reported fault in 220 KV Indravati - Therubali-IV of OPTCL system given elements tripped.	Load Loss=80 MW	31.07.13	0114hrs	GD-I
31.07.13	1852hrs	NER	132 KV Jiribam-Loktak -II 132 KV Jiribam-Aizawl 132 KV Jiribam-Badarpur 132 KV Jiribam-Haflong 132 KV Jiribaam-Pailapool	POWERGRID	Due to fault in Jiribam, Jiribam bus became dead and all the feeders tripped.	Load Loss=13 MW	31.07.13	1955hrs	GD-I
31.07.13	2157hrs	NR	400KV Agra-Muradnagar 400Kv Panki-Muradnagar 400Kv Dadri-Muradnagar 400Kv Moradabad-Muradnagar 400Kv Muzaffarnagar-Muradnagar ICTS-I,II,III(315MVA each) □	POWERGRID	Bus fault occurred at 400 KVMuradnagar S/S which caused tripping of all 400 KV lines emanating from Muradnagar & three number of ICTs.	Load Loss=800MW	31.07.13	2321hrs	GD-I
01.08.13	1155 hrs	NERLDC	220 kV BTPS- AGIA (AEGCL)	AEGCL	220 kV BTPS-Agia tripped. Consequently 220 kV Samaguri-Sarusajai-I got loaded leading to heavy flashover in R & Y phase bus isolator at Samaguri end. To prevent damage of isolators, 220 kV Samaguri-Sarusajai-I was hand tripped on emergency. Due to this, partial load of guwahati and Karbi langpi generation was interrrupted.	Gen. Loss= 50 MW Load Loss= 180 MW	01.08.13	1205 hrs	GD-I
02.08.13	0420 hrs	ERLDC	132 kV Purnea (PG) - Purnea (BSEB)-T/C 132 kV Purnea-Kishanganj-S/C	PG/BSEB	Due to R-ph drop jumper snapping in 132 kV Purnea (BSEB)-Naugachia (BSEB), 132 kV Purnea (PG) - Purnea (BSEB)-T/C 132 kV Purnea-Kishanganj-S/C tripped.	Load Loss=150 MW (including 70 MW Nepal Load)	02.08.13	0519 hrs	GD-I
02.08.13	0552 hrs	NERLDC	400 kV Balipara-RHEP-II	NER	400 kV Balipara-RHEP-I was opened for Over Voltage at 0050 hrs. At 0552 hrs, 400 kV Balipara-RHEP-II tripped due to Distance Protection & RHEP buses became dead.	Gen. Loss= 110 MW Load Loss= 60 MW	02.08.13	0621 hrs	GD-I

Outage		Region	Name of Element	Owner / Agency	Event	Generation/Load Loss	Revival		Category as per CEA Grid Standards
Date	Time						Date	Time	
02.08.13	1824 hrs	ERLDC	2X100 MVA 220/132 kV ICT-I & II 2X315 MVA 440/220 kV ICT-I & II 220 kV Meramundali-Talcher-I & II 220 kV Meramundali-Nalco-I & II 220 kV Meramundali-Duburi (old)-I & II 220 kV Meramundali-Bhanjanagar-I & II 220 kV Meramundali-BSL-I & II 220 kV Meramundali-Bidnasi	Odisha/ER	All 220 kV lines including 400/220 kV & 220/132 kV ICTs at Meramundali tripped. Also tripped 400 kV Meramundali-GMR & 400 kV Meramundali-Angul (only at MMD end)	Load Loss= 660 MW	02.08.13	2004	GI-I
03.08.13	0524 hrs	ERLDC	132 kV Siliguri-Kurseong 132 kV Siliguri-Melli	NER/PG	132 kV Siliguri-Kurseong (Y-B phase) and 132 kV Siliguri-Melli- (R-Y-B phase) tripped due to inclement weather. Due to load generation mismatch all units at Rangit and all units at Chuzachen tripped.	Load Loss= 45 MW Gen. Loss=147 MW	03.08.13	0712 hrs	GD-I
04.08.13	1013 hrs	NRLDC	315 MVA, 400/220 Kv ICT-I at Muzzafarpur 220 kV Muzzafarpur - Hazipur	PG/Nepal	315 MVA ICT-I at Muzzafarpur (PG) tripped and 220 kV Muzzafarpur - Hazipur also tripped at same time.	Load Loss = 235 MW (including 25 MW export to Nepal)	04.08.13	1315 hrs	GD-I
04.08.13	1405 hrs	ERLDC	220 kV Hatia-Patratu-II 220 kV Hatia-Ranchi 220 kV Patratu-Tenughat 132 kV Hatia-Chandil 2X150 MVA ICTs at Hatia Tenughat Unit # 1 Patratu Unit # 4 & 10	JSEB/ER	Detailed Report awaited.	Load Loss=170 MW Gen. Loss= 305 MW	04.08.13	1655 hrs	GD-I