

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 29.05.2013
Date of Reporting : 30.05.2013

I. Regional Availability/Demand:

Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
37959	1155	39114	50.09	38562	415	38977	50.30	924.1	31.68

* Half hourly (two 15 minutes block—one block each before and after the designated time) average frequency

II. A. State's Load Details (At States periphery) in MUs:

State	State's Control Area Generation (Net MU)				Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Consumption (Net MU)	Shortages* (MU)
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	37.44	10.31		47.75	98.69	98.68	-0.01	146.44	0.00
Haryana	56.77	0.67		57.44	74.70	75.34	0.64	132.78	0.00
Rajasthan	106.22	0.04	15.92	122.17	57.64	54.13	-3.52	176.30	0.00
Delhi	30.00			30.00	79.22	74.52	-4.70	104.52	0.06
UP	126.55	14.00	8.40	148.95	123.07	119.65	-3.42	268.60	28.53
Uttarakhand		12.82		12.82	20.97	22.23	1.26	35.05	1.36
HP		19.95		19.95	4.14	4.60	0.45	24.54	0.03
J & K		13.17	0.00	13.17	20.29	16.95	-3.34	30.11	1.70
Chandigarh				0.00	5.68	5.78	0.10	5.78	0.00
Total	356.98	70.95	24.32	452.24	484.40	471.87	-12.54	924.11	31.68

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

State	Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy MU
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	
Punjab	6229	0	181	1694	5796	0	-11	1216	31.31
Haryana	5631	0	-307	240	5563	0	165	187	3.89
Rajasthan	6641	0	-177	204	7328	0	-347	164	4.44
Delhi	4292	0	-135	-256	4281	0	-280	-194	2.07
UP	10902	980	-277	610	11875	415	-301	2039	24.44
Uttarakhand	1584	75	140	342	1499	0	87	227	7.82
HP	959	0	-180	-1092	877	0	12	-1221	-25.50
J&K	1467	100	-18	-247	1132	0	-178	-320	-6.43
Chandigarh	254	0	-7	0	211	0	11	0	0.39
Total	37959	1155	-780	1494	38562	415	-843	2097	42.42

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Entity	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI Net MU	
										UI (OG:(+ve), UG: (-ve))
A. NTPC	Singrauli STPS	2000	1732	1852	1849	41.23	1718	41.12	0.12	
	Rihand I STPS	1000	915	882	982	20.57	857	20.95	-0.38	
	Rihand II STPS	1000	965	930	1025	21.65	902	22.28	-0.64	
	Rihand III STPS	500	448	496	495	10.06	419	10.28	-0.22	
	Dadri I STPS	840	807	762	690	15.89	662	17.23	-1.35	
	Dadri II STPS	980	969	850	852	19.02	792	20.24	-1.23	
	Unchahar I TPS	420	399	379	353	8.14	339	8.75	-0.61	
	Unchahar II TPS	420	400	352	336	7.49	312	7.59	-0.10	
	Unchahar III TPS	210	200	179	164	3.75	156	3.79	-0.04	
	ISTPP (Jhajjar)	1500	470	318	318	6.46	269	7.33	-0.88	
	Dadri GPS	830	783	285	282	6.85	286	6.94	-0.09	
	Anta GPS	419	382	205	213	4.99	208	5.31	-0.32	
	Auraiva GPS	663	617	140	152	3.36	140	3.41	-0.05	
	Sub Total (A)	10782	9086	7630	7711	169.44	7060	175.23	-5.78	
	B. NPC	NAPS	440	293	333	336	7.04	293	7.03	0.01
RAPS- B		440	391	433	438	9.38	391	9.38	0.00	
RAPS- C		440	415	457	466	9.89	412	9.96	-0.07	
Sub Total (B)		1320	1099	1223	1240	26.31	1096	26.38	-0.07	
C. NHPC	Chamera I HPS	540	540	540	540	13.10	546	12.96	0.14	
	Chamera II HPS	300	303	310	303	7.26	302	7.27	-0.01	
	Chamera III HPS	231	231	230	232	5.34	222	5.45	-0.12	
	Bairasuil HPS	180	182	182	40	2.46	103	2.68	-0.21	
	Salal-HPS	690	645	614	660	15.24	635	15.47	-0.24	
	Tanakpur-HPS	94	80	90	62	1.87	78	1.91	-0.04	
	Uri-HPS	480	476	474	468	11.41	475	10.85	0.56	
	Dhauliganga-HPS	280	277	277	282	6.40	267	6.35	0.05	
	Dulhasti-HPS	390	387	402	396	9.30	387	9.29	0.00	
	Sewa-II HPS	120	104	120	0	1.76	73	2.50	-0.74	
	Sub Total (C)	3305	3225	3239	2983	74.13	3089	74.73	-0.60	
	D.NJPC	Nathpa Jhakri	1500	1605	1625	1631	38.82	1617	38.52	0.29
		Sub Total (D)	1500	1605	1625	1631	38.82	1617	38.52	0.29
E. THDC	Tehri HPS	1000	450	452	456	10.31	430	10.50	-0.19	
	Koteshwar HPS	400	285	283	86	4.57	190	4.60	-0.03	
	Sub Total (E)	1400	735	735	542	14.88	620	15.10	-0.22	
F. BBMB	Bhakra HPS	1480	928	1233	783	22.68	945	22.27	0.41	
	Dehar HPS	990	594	825	620	15.12	630	14.27	0.85	
	Pong HPS	396	71	292	0	1.56	65	1.71	-0.15	
	Sub Total (F)	2866	1593	2350	1403	39.36	1640	38.24	1.12	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	132	96	2.35	98	3.04	-0.69	
	KWHEP HPS(IPP)	1000	0	1052	1100	25.60	1066	28.51	-2.92	
	Malana Stg-II HPS	100	0	45	45	1.09	46	1.00	0.09	
	Shree Cement TPS	300	0	248	230	5.60	233	5.67	-0.07	
	Budhil HPS(IPP)	70	0	34	34	0.84	35	0.82	0.02	
	Sub Total (G)	1662	0	1511	1505	35.48	1478	39.05	-3.57	
H. Total Regional Entities (A-G)	22836	17343	18313	17015	398.42	16601	407.25	-8.83		

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sent out MW)	
Punjab	Guru Gobind Singh TPS (Ropar)	1260	960	810	20.84	868	
	Guru Nanak Dev TPS(Bhatinda)	440	180	190	4.07	170	
	Guru Hargobind Singh TPS(L.mbt)	920	503	515	12.54	522	
	Thermal (Total)	2620	1643	1515	37.44	1560	
	Total Hydro	1148	440	345	10.31	430	
	Total Punjab	3768	2083	1860	47.75	1990	
Haryana	Panipat TPS	1367	640	652	14.95	623	
	DCRTPP (Yamuna nagar)	600	559	563	12.71	530	
	Faridabad GPS (NTPC)	432	180	143	4.01	167	
	RGTPP (khedar) (IPP)	1200	1112	1111	25.11	1046	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	2491	2469	56.77	2366	
	Total Hydro	62	25	27	0.67	28	
		Total Haryana	5006	2516	2496	57.44	2393
	Rajasthan	kota TPS	1240	1074	1069	28.81	1200
suratgarh TPS		1500	1156	1154	28.11	1171	
Chabra TPS		500	0	0	0.00	0	
Dholpur GPS		330	126	126	3.03	126	
Ramgarh GPS		111	80	48	1.53	64	
RAPS A (NPC)		300	192	192	4.25	177	
Barsingsar (NLC)		250	197	200	4.59	191	
Giral LTPS		250	96	96	2.50	104	
Rajwest LTPS (IPP)		1080	791	785	18.67	778	
VSLP LTPS (IPP)		135	577	596	14.73	614	
Thermal (Total)		5696	4289	4266	106.22	4426	
Total Hydro		550	0	0	0.04	2	
Wind power		2191	97	1082	13.39	558	
Biomass		91	31	31	0.75	31	
Solar		201	0	0	1.78	74	
		Renewable/Others (Total)	2483	128	1113	15.92	663
		Total Rajasthan	8729	4417	5379	122.17	5091
UP	Anpara TPS	1630	1166	1163	28.30	1179	
	Obra TPS	1288	488	489	11.70	488	
	Paricha TPS	1140	845	698	17.70	738	
	Panki TPS	210	81	68	1.60	67	
	Harduaganj TPS	665	403	376	9.20	383	
	Tanda TPS (NTPC)	440	400	396	9.71	404	
	Roza TPS (IPP)	1200	999	995	23.99	1000	
	Anpara-C (IPP)	1200	715	671	16.34	681	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	359	359	8.00	334	
	Thermal (Total)	8223	5456	5215	126.55	5273	
	Vishnuparyag HPS (IPP)	400	436	436	10.45	435	
	Other Hydro	527	159	143	3.55	148	
	Cogeneration	981	350	350	8.40	350	
		Total UP	10131	6401	6144	148.95	5771
Uttarakhand	Total Hydro	1303	576	604	12.82	534	
	Total Uttarakhand	1303	576	604	12.82	534	
Delhi	Rajghat TPS	135	50	52	1.12	47	
	Delhi Gas Turbine	282	189	169	4.30	179	
	Pragati Gas Turbine	330	280	290	6.70	279	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	213	215	4.61	192	
	Badarpur TPS (NTPC)	705	585	580	13.27	553	
	Thermal (Total)	2232	1317	1306	30.00	1250	
		Total Delhi	2232	1317	1306	30.00	1250
HP	Baspa HPS (IPP)	330	330	330	7.58	316	
	Malana HPS (IPP)	86	66	54	0.97	40	
	Other Hydro	589	476	496	11.39	475	
	Total HP	1005	872	880	19.95	831	
J & K	Baglihar HPS (IPP)	450	434	434	10.21	426	
	Other Hydro	323	110	128	2.95	123	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	544	562	13.17	549	
Total State Control Area Generation		33130	18726	19231	452.24	18408	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3509	3443	87.47	3645	
Total Regional Availability(Gross)		55966	40548	39689	938.13	38653	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9178	7800	196.23	8176
State Control Area Hydro	5368	2616	2561	70.95	2521
Total Regional Hydro	15731	11794	10361	267.18	10697

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	-100	-150	100	250	0.33	2.84	-2.51
Gwalior-Agra (D/C)	910	1240	1365	0	25.09	0.00	25.09
Zerda-Kankroli	-68	-220	0	333	0.00	4.46	-4.46
Zerda-Bhinmal	-31	-209	12	347	0.00	3.56	-3.56
Malanpur-Auraiya	-67	-32	0	84	0.00	1.04	-1.04
Badod-Kota/Morak	-65	-80	0	154	0.00	2.20	-2.20
Mundra-Mohindergarh(HVDC)	1347	1057	1450	0	28.42	0.00	28.42
Sub Total WR	1926	1606			53.84	14.10	39.74
Pusauli Bypass	100	100	100	0	2.40	0.00	2.40
MZP- GKP (D/C)	516	670	904	0	17.91	0.00	17.91
Patna-Balia(D/C)	468	530	726	0	13.11	0.00	13.11
B'Sharif-Balia (D/C)	232	267	461	0	7.32	0.00	7.32
Pusauli-Balia	-46	-32	44	69	0.00	0.41	-0.41
Gaya-Fatehpur (765 Kv)	183	169	268	0	4.46	0.00	4.46
Pusauli-Sahupuri	166	173	185	0	3.99	0.00	3.99
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-40	0	44	0.00	1.05	-1.05
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1583	1837			49.19	1.46	47.73
Total IR Exch	3509	3443			103.03	15.56	87.47

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange ShdI (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
37.37	1.69	39.07	-2.57	6.43	3.93	-1.38	-0.93	0.93

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
39.50	53.60	93.10	47.73	39.74	87.47	8.23	-13.86	-5.63

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	0.00	79.40	79.40	81.60	20.60

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.47	6.03	49.81	20.13	50.11	0.25	0.12	50.47	49.98

VII. Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV
Rihand	400	414	06:55	403	15:09	0.0	0.0	0.0	0.0
Gorakhpur	400	427	07:16	402	15:02	0.0	0.0	16.3	0.0
Bareilly	400	417	06:30	398	13:20	0.0	0.0	0.0	0.0
Kanpur	400	421	06:02	399	14:54	0.0	0.0	0.1	0.0
Dadri	400	416	06:02	396	14:53	0.0	0.0	0.0	0.0
Balabhgarh	400	423	06:03	398	14:53	0.0	0.0	1.4	0.0
Bawana	400	418	06:04	398	14:41	0.0	0.0	0.0	0.0
Bassi	400	421	04:02	395	12:39	0.0	0.0	1.1	0.0
Hissar	400	409	06:02	395	12:34	0.0	0.0	0.0	0.0
Moga	400	400	04:03	387	11:14	0.0	21.8	0.0	0.0
Abdullapur	400	409	06:02	399	11:29	0.0	0.0	0.0	0.0
Nalagarh	400	415	03:08	402	11:51	0.0	0.0	0.0	0.0
Kishenpur	400	414	03:03	399	20:11	0.0	0.0	0.0	0.0
Wagoora	400	418	03:24	391	20:11	0.0	0.0	0.0	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	777	19:04	736	22:39	0.0	7.0	0.0	0.0
Balia	765	777	18:05	731	11:13	0.0	17.4	0.0	0.0
Moga	765	799	06:03	769	22:47	0.0	0.0	0.0	0.0
Agra	765	803	06:05	757	23:08	0.0	0.0	0.2	0.0
Bhiwani	765	793	06:04	757	14:39	0.0	0.0	0.0	0.0
Unnao	765	774	06:03	737	14:52	0.0	9.0	0.0	0.0

IX. Reservoir Parameters:

Name of Reservoir	Parameters		Present Parameters		Last Year		Last day	
	FRL (m)	MDDL (m)	Level (m)	Energy (MU)	Level (m)	Energy (MU)	Inflow (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	478.58	427.60	468.74	248.16	1282.76	818.53
Pong	426.72	384.05	399.56	209.93	400.82	237.89	268.81	14.16
Tehri	829.79	740.04	751.90	63.00	818.65	982.26	287.27	336.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	758.86	NA	NA	NA	409.52	351.58
Rihand	268.22	252.98	255.61	112.60	256.43	133.70	312.77	NA
RPS	352.80	343.81	347.37	NA	NA	NA	NA	16.71
Jawahar Sagar	298.70	295.78	297.94	NA	NA	NA	NA	37.38
RSD	527.91	487.91	508.69	NA	508.48	NA	284.33	157.38

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 29.05.2013 :

1. Hot weather& Hot waves Condition prevailing in NR.

XIII. Synchronisation of new generating units :

0.00

XIV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

Report for : 29.05.2013

पारी प्रभाती अश्विनी / SHIFT CHARGE ENGINEER