

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.05.2012
Date of Reporting : 26.05.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
33570	3686	37256	49.85	35422	3239	38661	49.76	837.0	72.76

* 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	49.34	14.71		64.05	71.70	80.58	8.88	144.62	3.29
Haryana	48.10	0.82		48.92	43.35	60.67	17.31	109.58	19.68
Rajasthan	78.87	0.00	26.98	105.85	39.50	42.56	3.06	148.41	1.10
Delhi	32.39			32.39	77.76	68.39	-9.37	100.78	0.62
UP	91.51	14.28	7.20	112.99	94.49	126.38	31.88	239.37	43.48
Uttarakhand		19.07		19.07	13.31	14.23	0.92	33.30	1.45
HP		16.07		16.07	13.82	8.20	-5.63	24.27	0.20
J & K		14.24	0.00	14.24	18.44	16.70	-1.74	30.94	2.95
Chandigarh				0.00	5.87	5.74	-0.13	5.74	0.00
Total	300.20	79.18	34.18	413.57	378.25	423.44	45.19	837.00	72.76

* 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	5244	450	-268	570	6196	0	375	570	13.66
Haryana	4736	1129	882	107	4656	735	914	107	2.56
Rajasthan	6150	0	-267	-231	6357	100	305	-431	-8.14
Delhi	4429	12	-189	685	3891	0	-631	638	15.89
UP	8852	1865	400	70	10831	2369	1741	75	1.71
Uttarakhand	1576	80	258	27	1256	35	-148	27	0.66
HP	949	0	-121	-659	901	0	-233	-341	-12.26
J&K	1376	150	-88	-408	1127	0	-217	-428	-10.18
Chandigarh	258	0	28	0	207	0	-5	0	0.57
Total	33570	3686	635	161	35422	3239	2101	217	4.46

* 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
A. NTPC	Singrauli STPS	2000	1420	1569	1571	34.50	1438	34.08	0.42
	Rihand I STPS	1000	898	977	983	21.69	904	21.55	0.14
	Rihand II STPS	1000	943	1039	931	23.12	964	22.64	0.48
	Dadri I STPS	840	790	859	852	17.47	728	18.96	-1.49
	Dadri II STPS	980	958	1012	1018	23.00	958	23.00	0.00
	Unchahar I TPS	420	402	434	437	9.63	401	9.65	-0.02
	Unchahar II TPS	420	404	438	440	9.65	402	9.70	-0.05
	Unchahar III TPS	210	201	221	218	4.84	202	4.82	0.01
	ISTPP (Jhajjar)	1000	470	500	510	10.88	453	10.93	-0.05
	Dadri GPS	830	740	667	614	15.89	662	15.98	-0.09
	Anta GPS	419	379	342	341	8.28	345	8.22	0.06
	Auraiya GPS	663	584	540	568	13.01	542	12.69	0.31
	Sub Total (A)	9782	8188	8598	8483	191.94	7997	192.22	-0.28
B. NPC	NAPS	440	179	266	272	5.65	236	4.29	1.37
	RAPS- B	440	389	429	421	9.26	386	9.34	-0.08
	RAPS- C	440	232	226	230	4.98	208	5.57	-0.58
	Sub Total (B)	1320	800	921	923	19.89	829	19.19	0.71
C. NHPC	Chamera I HPS	540	534	540	540	7.67	319	7.71	-0.05
	Chamera II HPS	300	297	299	288	7.13	297	7.13	0.00
	Bairasuil HPS	180	182	182	182	3.91	163	3.88	0.02
	Salal-HPS	690	547	569	532	13.08	545	13.15	-0.07
	Tanakpur-HPS	94	54	72	42	1.27	53	1.15	0.11
	Uri-HPS	480	476	480	480	11.59	483	11.60	0.00
	Dhauliganga-HPS	280	277	282	139	4.77	199	4.90	-0.12
	Dulhasti-HPS	390	388	416	397	9.26	386	9.37	-0.11
	Sewa-II HPS	120	80	85	85	1.93	81	1.94	-0.01
	Sub Total (C)	3074	2834	2925	2685	60.60	2525	60.83	-0.22
D. NJPC	Nathpa Jhakri	1500	1600	1525	1351	27.16	1131	26.61	0.54
	Sub Total (D)	1500	1600	1525	1351	27.16	1131	26.61	0.54
E. THDC	Tehri HPS	1000	520	522	245	5.07	211	5.00	0.07
	Koteshwar HPS	400	400	203	91	2.62	109	2.60	0.02
	Sub Total (E)	1400	920	725	336	7.69	320	7.60	0.09
F. BBMB	Bhakra HPS	1480	697	1138	534	17.04	710	16.73	0.31
	Dehar HPS	990	573	660	495	14.43	601	13.74	0.69
	Pong HPS	396	210	300	180	5.13	214	5.04	0.09
	Sub Total (F)	2866	1480	2098	1209	36.60	1525	35.52	1.08
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	222	205	3.60	150	2.44	1.16
	KWHEP HPS(IPP)	1000	0	583	500	14.58	607	11.48	3.09
	Malana Stg-II HPS	100	0	50	57	1.30	54	0.00	1.30
	Shree Cement TPS	300	0	130	147	3.42	143	3.05	0.37
	Sub Total (G)	1592	0	985	909	22.90	954	16.98	5.93
H. Total Regional Entities (A-G)	21535	15822	17777	15896	366.78	15283	358.94	7.84	

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	1045	1045	23.37	974	
	Guru Nanak Dev TPS(Bhatinda)	440	212	212	4.61	192	
	Guru Hargobind Singh TPS(L.mbt)	920	958	959	21.36	890	
	Thermal (Total)	2620	2215	2216	49.34	2056	
	Total Hydro	1148	457	475	14.71	613	
	Total Punjab	3768	2672	2691	64.05	2669	
Haryana	Panipat TPS	1367	1086	1113	26.29	1095	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	356	373	8.81	367	
	RGTPP (kheldar) (IPP)	1200	507	519	13.00	542	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLIP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1949	2005	48.10	2004	
	Total Hydro	62	22	18	0.82	34	
	Total Haryana	5006	1971	2023	48.92	2038	
Rajasthan	kota TPS	1240	941	971	22.47	936	
	suratgarh TPS	1500	1351	1360	32.10	1337	
	Chabra TPS	500	0	0	0.00	0	
	Dholpur GPS	330	183	94	3.06	127	
	Ramgarh GPS	111	27	52	0.94	39	
	RAPS A (NPC)	300	169	164	4.22	176	
	Barsingsar (NLC)	250	189	221	4.56	190	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	460	465	11.53	480	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3320	3327	78.87	3286	
	Total Hydro	550	0	0	0.00	0	
	Wind power	1843	1142	1103	26.00	1083	
	Biomass	91	41	41	0.98	41	
	Solar	128	0	0	0.00	0	
	Renewable/Others (Total)	2062	1183	1144	26.98	1124	
	Total Rajasthan	7767	4503	4471	105.85	4410	
	UP	Anpara TPS	1630	1111	1159	26.60	1108
		Obra TPS	1382	314	326	7.70	321
Paricha TPS		640	346	355	8.50	354	
Panki TPS		210	63	59	1.30	54	
Harduaganj TPS		665	221	322	6.50	271	
Tanda TPS (NTPC)		440	187	188	4.75	198	
Roza TPS (IPP)		1200	819	824	19.75	823	
Anpara-C (IPP)		1200	319	324	7.56	315	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	324	391	8.86	369	
Thermal (Total)		7817	3704	3948	91.51	3813	
Vishnuparyag HPS (IPP)		400	327	396	9.06	377	
Other Hydro		527	255	0	5.22	217	
Cogeneration		981	300	300	7.20	300	
Total UP		9725	4586	4644	112.99	4330	
Uttarakhand	Total Hydro	1303	778	751	19.07	795	
	Total Uttarakhand	1303	778	751	19.07	795	
Delhi	Rajghat TPS	135	0	48	0.87	36	
	Delhi Gas Turbine	282	213	223	5.14	214	
	Pragati Gas Turbine	330	270	282	6.70	279	
	Rithala GPS	108	32	31	0.68	28	
	Bawana GPS	677	249	292	5.95	248	
	Badarpur TPS (NTPC)	705	590	605	13.05	544	
	Thermal (Total)	2237	1354	1481	32.39	1349	
	Total Delhi	2237	1354	1481	32.39	1349	
HP	Baspa HPS (IPP)	330	239	210	5.05	211	
	Malana HPS (IPP)	86	52	34	1.15	48	
	Other Hydro	589	389	442	9.87	411	
	Total HP	1005	680	686	16	670	
J & K	Baglihar HPS (IPP)	450	437	437	10.48	437	
	Other Hydro	323	166	155	3.76	156	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	603	592	14.24	593	
Total State Control Area Generation		31767	17147	17339	413.57	16855	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1372	3535	68.63	2860	
Total Regional Availability(Gross)		53302	36296	36770	848.98	34997	

IV. Total Hydro Generation:

Regional Entities Hydro	10133	8128	6343	151.53	6314
State Control Area Hydro	5368	2795	2522	70.12	2922
Total Regional Hydro	15500	10923	8865	221.65	9235

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	400	400	400	0	8.78	0.00	8.78
Gwalior-Agra (D/C)	289	937	1056	0	19.73	0.00	19.73
Zerda-Kankroli	-192	50	115	215	0.00	0.97	-0.97
Zerda-Bhinmal	-134	21	134	157	0.00	1.23	-1.23
Malanpur-Auraiya	-90	-57	0	168	0.00	1.45	-1.45
Badod-Kota/Morak	-9	92	100	9	1.09	0.00	1.09
Sub Total WR	264	1443			29.60	3.64	25.96
Pusauli Bypass	-142	106	197	142	1.40	0.48	0.92
MZP- GKP (D/C)	286	455	734	0	11.01	0.00	11.01
Patna-Balia(D/C)	267	551	560	0	10.05	0.00	10.05
B'Sharif-Balia (D/C)	274	555	665	0	11.49	0.00	11.49
Barh - Balia(D/C)	269	340	344	0	7.03	0.00	7.03
Pusauli-Balia	0	0	0	0	0.00	0.00	0.00
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	146	57	153	0	2.99	0.00	2.99
K'nasa-Sahupuri	48	60	60	0	0.00	0.00	0.00
Son Ngr-Rihand	-40	-32	0	47	0.00	0.84	-0.84
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1108	2092			43.99	1.32	42.67
Total IR Exch	1372	3535			73.59	4.96	68.63

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

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
29.70	0.71	30.40	0.47	6.66	-4.43	-0.56	2.99	-2.99

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
29.43	3.12	32.55	42.67	25.96	68.63	13.24	22.83	36.08

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	0.50	11.30	37.30	87.50	61.30	8.50	1.20

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	(Hz)	(Hz)	(Hz)	(Hz)
50.59	18.04	49.12	11.11	49.76	1.00	0.20	50.36	49.39

VII. Voltage profile

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	404	23:27	395	04:44	0.0	0.0	0.0	0.0
Gorakhpur	400	422	19:37	403	01:50	0.0	0.0	5.1	0.0
Bareilly	400	417	19:01	395	00:26	0.0	0.0	0.0	0.0
Kanpur	400	413	19:01	399	04:53	0.0	0.0	0.0	0.0
Dadri	400	412	19:01	395	16:27	0.0	0.0	0.0	0.0
Ballabgarh	400	415	19:01	394	16:28	0.0	0.0	0.0	0.0
Bawana	400	412	06:04	394	16:31	0.0	0.0	0.0	0.0
Bassi	400	417	01:26	391	08:28	0.0	0.0	0.0	0.0
Hissar	400	408	18:58	387	08:18	0.0	1.9	0.0	0.0
Moga	400	419	18:59	394	08:21	0.0	0.0	0.0	0.0
Abdullapur	400	414	05:26	396	08:14	0.0	0.0	0.0	0.0
Nalagarh	400	419	18:05	398	09:15	0.0	0.0	0.0	0.0
Kishenpur	400	413	18:04	397	09:13	0.0	0.0	0.0	0.0
Wagoora	400	405	18:03	387	21:11	0.0	5.7	0.0	0.0

VIII. 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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	468.64	248.16	479.32	447.73	514.43	611.64
Pong	426.72	384.05	401.24	244.95	411.38	544.90	63.80	357.61
Tehri	829.79	740.04	744.95	23.98	818.65	982.26	148.86	178.00
Koteshwar	612.50	598.50	610.00	4.44	NA	NA	178.00	173.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	239.41	207.61
Rihand	268.22	252.98	256.64	142.50	254.23	46.70	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	499.87	NA	510.40	NA	220.93	221.15

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 25.05.2012 :

Hot weather

XII. Synchronisation of new generating units :

1. Budhil(Lanco) Unit#1 (35 MW) 1st time synchronised at 18.55 hrs of 25.05.2012.

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

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 25.05.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER