

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिसिटी की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.06.2013
Date of Reporting : 13.06.2013

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
37212	1495	38707	50.07	35853	660	36513	50.13	890.9	41.52

* 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)	UI [OD:(+ve), UD:(-ve)]	
	Thermal	Hydro	Renewable/others \$	Total				Consumption (Net MU)	Shortages * (MU)
Punjab	38.39	13.62		52.01	115.48	116.57	1.08	168.58	3.25
Haryana	54.31	0.69		55.00	92.05	89.52	-2.54	144.52	0.00
Rajasthan	78.63	0.05	4.21	82.89	69.42	65.06	-4.36	147.95	0.00
Delhi	25.56			25.56	81.73	78.60	-3.13	104.16	0.00
UP	112.68	14.59	5.40	132.67	109.00	103.60	-5.40	236.27	35.98
Uttarakhand		19.20		19.20	15.54	14.13	-1.41	33.33	0.00
HP		22.74		22.74	3.03	1.54	-1.49	24.28	0.59
J & K		13.41	0.00	13.41	16.33	12.84	-3.49	26.25	1.70
Chandigarh				0.00	6.03	5.55	-0.48	5.55	0.00
Total	309.57	84.30	9.61	403.49	508.61	487.40	-21.21	890.89	41.52

* 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				UI [OD:(+ve), UD:(-ve)]	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction	Day Energy MU
Punjab	7646	0	-194	2067	6333	100	-8	1688		42.69
Haryana	5867	0	-690	769	6111	0	-32	550		13.05
Rajasthan	5832	0	-384	456	6071	0	16	318		9.13
Delhi	4558	0	-84	190	3962	0	-273	-75		3.11
UP	9251	1360	-605	110	10187	560	-450	1136		12.11
Uttarakhand	1595	0	35	132	1293	0	-136	43		1.65
HP	932	35	-166	-943	910	0	4	-1088		-23.39
J&K	1274	100	-68	-318	782	0	-313	-424		-8.08
Chandigarh	257	0	-10	0	205	0	-47	0		0.03
Total	37212	1495	-2166	2464	35853	660	-1239	2147		50.31

* 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 [OG:(+ve), UG:(-ve)]		
									Net MU	Net MU	
A. NTPC	Singrauli STPS	2000	1733	1877	1807	41.12	1713	40.70	0.42		
	Rihand I STPS	1000	915	997	780	20.01	834	20.29	-0.28		
	Rihand II STPS	1000	965	1036	857	21.29	887	21.57	-0.29		
	Rihand III STPS	500	466	515	433	10.19	425	10.34	-0.15		
	Dadri I STPS	840	810	628	652	15.79	658	15.80	-0.02		
	Dadri II STPS	980	975	960	709	19.39	808	20.48	-1.09		
	Unchahar I TPS	420	402	423	310	7.61	317	8.18	-0.58		
	Unchahar II TPS	420	201	193	153	3.62	151	3.99	-0.37		
	Unchahar III TPS	210	200	177	155	3.70	154	3.95	-0.25		
	ISTPP (Jhajhar)	1500	470	310	299	6.57	274	6.65	-0.08		
	Dadri GPS	830	800	306	294	7.53	314	7.62	-0.10		
	Anta GPS	419	396	169	170	4.08	170	4.27	-0.19		
	Auraiya GPS	663	618	154	156	3.58	149	3.48	0.10		
	Sub Total (A)	10782	8950	7745	6775	164.46	6853	167.34	-2.88		
	B. NPC	NAPS	440	290	323	337	7.05	294	6.96	0.09	
		RAPS- B	440	385	436	435	9.33	389	9.24	0.08	
		RAPS- C	440	430	455	462	9.86	411	10.32	-0.46	
Sub Total (B)		1320	1105	1214	1234	26.23	1093	26.52	-0.29		
C. NHPC	Chamera I HPS	540	540	540	540	13.06	544	12.96	0.10		
	Chamera II HPS	300	310	311	311	7.35	306	7.31	0.04		
	Chamera III HPS	231	231	232	226	5.53	231	5.52	0.02		
	Bairasuil HPS	180	179	180	120	3.03	126	3.18	-0.14		
	Salal-HPS	690	624	660	625	14.96	623	14.98	-0.02		
	Tanakpur-HPS	94	70	90	80	1.78	74	1.68	0.10		
	Uri-HPS	480	475	474	472	11.39	475	11.26	0.13		
	Dhauliganga-HPS	280	280	278	279	6.75	281	6.72	0.02		
	Dulhasi-HPS	390	382	402	409	9.01	376	9.10	-0.08		
	Sewa-II HPS	120	119	122	117	2.67	111	2.66	0.02		
	Sub Total (C)	3305	3210	3289	3179	75.54	3147	75.36	0.17		
D. NJPC	Natpaa Jhakri	1500	1605	1611	1609	38.35	1598	38.52	-0.17		
	Sub Total (D)	1500	1605	1611	1609	38.35	1598	38.52	-0.17		
E. THDC	Tehri HPS	1000	542	548	517	12.52	522	12.20	0.32		
	Sub Total (E)	1400	832	843	807	18.48	770	18.20	0.28		
F. BBMB	Bhakra HPS	1480	1231	1259	1259	30.15	1256	29.54	0.61		
	Dehar HPS	990	592	825	580	15.15	631	14.21	0.94		
	Pong HPS	396	75	120	0	1.84	77	1.80	0.04		
	Sub Total (F)	2866	1898	2204	1839	47.14	1964	45.56	1.58		
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	168	233	5.14	214	5.35	-0.21		
	KWHEP HPS(IPP)	1000	0	1201	1198	28.46	1186	28.51	-0.05		
	Malana Stg-II HPS	100	0	55	70	1.47	61	1.35	0.12		
	Shree Cement TPS	300	0	132	263	5.76	240	6.36	-0.61		
	Budhil HPS(IPP)	70	0	34	34	0.78	32	0.72	0.06		
	Sub Total (G)	1662	0	1590	1798	41.60	1733	42.30	-0.69		
H. Total Regional Entities (A-G)	22836	17600	18496	17241	411.80	17158	413.79	-2.00			

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	661	680	19.16	798	
	Guru Nanak Dev TPS(Bhatinda)	440	259	190	4.31	180	
	Guru Hargobind Singh TPS(L.mbt)	920	169	487	14.92	622	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	1089	1357	38.39	1600	
	Total Hydro	1148	408	553	13.62	568	
	Total Punjab	3768	1497	1910	52.01	2167	
Haryana	Panipat TPS	1367	661	650	16.01	667	
	DCRTPP (Yamuna nagar)	600	259	283	6.22	259	
	Faridabad GPS (NTPC)	432	169	178	4.13	172	
	RGTPP (khedar) (IPP)	1200	605	553	13.81	575	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	555	583	14.15	590	
	Thermal (Total)	4944	2249	2247	54.31	2263	
	Total Hydro	62	30	24	0.69	29	
		Total Haryana	5006	2279	2271	55.00	2292
	Rajasthan	kota TPS	1240	901	874	21.78	907
suratgarh TPS		1500	937	938	22.59	941	
Chabra TPS		500	194	194	4.62	193	
Dholpur GPS		330	110	121	2.82	117	
Ramgarh GPS		111	68	59	1.66	69	
RAPS A (NPC)		300	195	195	4.33	180	
Barsingar (NLC)		250	204	166	4.59	191	
Giral LTPS		250	117	130	2.59	108	
Rajwest LTPS (IPP)		1080	582	513	13.66	569	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Kalisindh Thermal		600	0	0	0.00	0	
Kawai(Adani)		660	0	0	0.00	0	
Thermal (Total)		6956	3308	3190	78.63	3276	
Total Hydro		550	0	0	0.05	2	
Wind power		2191	111	129	2.64	110	
Biomass		91	23	23	0.54	23	
Solar		201	0	0	1.03	43	
Renewable/Others (Total)		2483	134	152	4.21	176	
		Total Rajasthan	9989	3442	3342	82.89	3454
UP		Anpara TPS	1630	1304	1311	28.10	1171
	Obra TPS	1288	543	522	11.60	483	
	Paricha TPS	1140	601	898	14.70	613	
	Panki TPS	210	85	65	1.70	71	
	Harduaganj TPS	665	420	426	9.20	383	
	Tanda TPS (NTPC)	440	295	257	6.99	291	
	Roza TPS (IPP)	1200	999	801	21.90	912	
	Anpara-C (IPP)	1200	464	459	11.02	459	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	317	325	7.48	312	
	Thermal (Total)	8223	5028	5064	112.68	4695	
	Vishnuparyag HPS (IPP)	400	436	396	10.46	436	
	Other Hydro	527	175	188	4.13	172	
	Cogeneration	981	225	225	5.40	225	
		Total UP	10131	5864	5873	132.67	5092
	Uttarakhand	Total Hydro	1303	876	786	19.20	800
Total Uttarakhand		1303	876	786	19.20	800	
Delhi	Rajghat TPS	135	93	93	2.54	106	
	Delhi Gas Turbine	282	150	79	3.04	127	
	Pragati Gas Turbine	330	281	263	6.16	257	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	190	191	4.71	196	
	Badarpur TPS (NTPC)	705	465	390	9.12	380	
	Thermal (Total)	2232	1179	1016	25.56	1065	
		Total Delhi	2232	1179	1016	25.56	1065
HP	Baspa HPS (IPP)	330	331	331	7.51	313	
	Malana HPS (IPP)	86	103	103	2.46	102	
	Other Hydro	589	555	495	12.78	532	
		Total HP	1005	989	929	22.74	948
J & K	Baglihar HPS (IPP)	450	434	436	10.45	436	
	Other Hydro	323	110	128	2.95	123	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	544	564	13.41	559
Total State Control Area Generation		34390	16670	16691	403.49	16376	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5308	3205	101.68	4237	
Total Regional Availability(Gross)		57226	40474	37137	916.96	37711	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9371	8935	214.57	8940
State Control Area Hydro	5368	3022	3044	84.30	3077
Total Regional Hydro	15731	12393	11979	298.87	12017

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	-50	0	500	400	2.22	0.15	2.07
Gwalior-Agra (D/C)	1864	940	1864	0	32.41	0.00	32.41
Zerda-Kankroli	92	-276	96	276	0.00	3.04	-3.04
Zerda-Bhinmal	129	-200	181	224	0.00	1.55	-1.55
Malanpur-Auraiya	15	-37	0	37	0.00	0.11	-0.11
Badod-Kota/Morak	42	14	65	54	0.00	0.05	-0.05
Mundra-Mohindergarh(HVDC)	1428	1385	1433	0	32.55	0.00	32.55
Sub Total WR	3520	1826			67.18	4.90	62.28
Pusauli Bypass	300	300	300	0	6.65	0.00	6.65
MZP- GKP (D/C)	540	434	636	0	12.25	0.00	12.25
Patna-Balia(D/C)	599	479	760	0	13.61	0.00	13.61
B'Sharif-Balia (D/C)	138	141	310	0	4.31	0.00	4.31
Pusauli-Balia	-116	-91	0	124	0.00	1.89	-1.89
Gaya-Fatehpur (765 Kv)	65	-23	150	24	1.11	0.00	1.11
Pusauli-Sahupuri	147	171	171	0	3.48	0.00	3.48
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-38	-40	0	45	0.00	0.90	-0.90
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	153	8	225	0	2.67	1.89	0.78
Sub Total ER	1788	1379			44.08	4.68	39.41
Total IR Exch	5308	3205			111.26	9.58	101.68

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
38.45	3.02	41.47	6.18	3.65	4.32	-2.78	0.84	-0.83

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
52.80	58.02	110.83	39.41	62.28	101.68	-13.40	4.25

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

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7-49.8	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	1.10	87.00	1.30	85.90	72.30	13.00

Frequency (Hz)				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time					
50.47	17.37	49.56	22.09	50.07	0.21	0.13	50.46	49.78

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	417	06:05	401	22:10	0.0	0.0	0.0	0.0
Gorakhpur	400	430	06:26	343	01:55	0.7	0.7	45.1	0.0
Bareilly	400	424	06:07	398	22:09	0.0	0.0	1.6	0.0
Kanpur	400	424	06:06	400	12:20	0.0	0.0	6.8	0.0
Dadri	400	417	06:04	395	12:20	0.0	0.0	0.0	0.0
Ballabgarh	400	425	06:06	400	12:20	0.0	0.0	10.9	0.0
Bawana	400	415	06:23	398	12:29	0.0	0.0	0.0	0.0
Bassi	400	433	04:02	405	12:22	0.0	0.0	33.9	2.2
Hissar	400	408	06:05	390	12:22	0.0	0.0	0.0	0.0
Moga	400	414	19:00	396	12:22	0.0	0.0	0.0	0.0
Abdullapur	400	413	06:05	283	22:28	0.1	0.1	0.0	0.0
Nalagarh	400	412	06:04	394	12:28	0.0	0.0	0.0	0.0
Kishenpur	400	409	06:05	401	10:16	0.0	0.0	0.0	0.0
Wagoora	400	412	04:08	400	07:19	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	767	15:16	747	12:24	0.0	0.0	0.0	0.0
Balia	765	768	06:06	730	22:05	0.0	48.0	0.0	0.0
Moga	765	790	18:05	744	08:40	0.0	0.0	0.0	0.0
Agra	765	810	06:06	755	20:22	0.0	0.0	4.6	0.0
Bhiwani	765	788	18:05	754	09:38	0.0	0.0	0.0	0.0
Unnao	765	775	18:05	735	11:28	0.0	4.4	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	483.71	552.50	467.84	234.83	1981.75	1077.03
Pong	426.72	384.05	400.44	230.85	398.44	185.67	450.78	127.65
Tehri	829.79	740.04	747.70	38.00	818.65	982.26	560.73	347.00
Koteshwar	612.50	598.50	607.75	3.64	NA	NA	347.00	370.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	499.20	350.52
Rihand	268.22	252.98	255.30	88.20	255.39	91.80	NA	NA
RPS	352.80	343.81	347.82	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.12	NA	NA	NA	NA	NA
RSD	527.91	487.91	511.52	NA	500.84	NA	489.54	258.08

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 12.06.2013 :

1. Hot & Humid weather in NR.

XIII. Synchronisation of new generating units :

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 : 12.06.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER