

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरगिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.06.2012
Date of Reporting : 26.06.2012

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
38111	3745	41856	49.75	36705	1189	37894	50.13	916.9	54.48

* 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	47.05	14.37		61.42	114.16	119.30	5.14	180.72	14.82
Haryana	59.27	0.94		60.22	65.54	78.91	13.37	139.13	7.29
Rajasthan	75.94	0.00	35.86	111.80	49.31	46.37	-2.94	158.17	0.00
Delhi	28.03			28.03	83.15	82.40	-0.74	110.43	0.48
UP	106.60	14.29	4.80	125.70	105.50	115.56	10.06	241.25	27.97
Uttarakhand		19.42		19.42	12.95	12.94	-0.01	32.36	0.97
HP		19.49		19.49	5.13	2.25	-2.88	21.74	0.00
J & K		15.10	0.00	15.10	13.74	12.34	-1.40	27.44	2.95
Chandigarh				0.00	7.13	5.65	-1.48	5.65	0.00
Total	316.89	83.62	40.66	441.17	456.60	475.73	19.12	916.90	54.48

* 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	STOA/PX transaction	
Punjab	8204	1069	385	1926	5942	335	-110	1897	45.96	
Haryana	5735	806	515	456	5557	0	726	456	10.94	
Rajasthan	6424	0	-306	-229	6891	0	414	-229	-5.50	
Delhi	4594	0	123	858	4410	14	7	698	21.55	
UP	9101	1720	81	0	10928	740	-205	50	1.50	
Uttarakhand	1626	0	318	28	1181	0	-254	32	0.72	
HP	868	0	-181	-1309	710	0	-270	-1310	-32.16	
J&K	1296	150	87	-603	880	100	-313	-553	-13.82	
Chandigarh	263	0	-35	40	206	0	-60	20	1.20	
Total	38111	3745	987	1167	36705	1189	-65	1060	30.39	

* 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	1865	1066	1994	45.54	1897	44.75	0.79
	Rihand I STPS	1000	890	977	975	21.06	877	20.86	0.19
	Rihand II STPS	1000	811	626	1037	19.29	804	18.97	0.32
	Rihand III STPS	500		0	0	0.00	0		0.00
	Dadri I STPS	840	792	865	672	17.48	728	19.01	-1.53
	Dadri II STPS	980	494	504	456	11.22	468	11.86	-0.63
	Unchahar I TPS	420	402	492	385	9.30	388	9.38	-0.08
	Unchahar II TPS	420	400	440	331	8.99	374	8.98	0.00
	Unchahar III TPS	210	158	220	190	3.31	138	3.63	-0.32
	ISTPP (Jhajhar)	1000	940	988	976	22.10	921	22.30	-0.20
	Dadri GPS	830	761	531	545	11.92	496	12.30	-0.39
	Anta GPS	419	382	249	199	5.12	213	5.28	-0.16
	Auraiya GPS	663	590	434	368	8.93	372	8.77	0.16
	Sub Total (A)		10282	8486	7392	8128	184.25	7677	186.09
B. NPC	NAPS	440	254	294	301	6.14	256	6.10	0.05
	RAPS- B	440	391	436	436	9.37	391	9.38	-0.01
	RAPS- C	440	200	228	226	4.90	204	4.80	0.10
	Sub Total (B)		1320	845	958	963	20.41	851	20.28
C. NHPC	Chamera I HPS	540	534	540	540	12.88	536	12.81	0.06
	Chamera II HPS	300	300	300	301	7.15	298	7.18	-0.02
	Chamera III HPS	231		77	77	3.61	150		3.61
	Bairasuil HPS	180	182	182	120	2.84	118	3.37	-0.53
	Salal-HPS	690	638	655	640	15.31	638	15.36	-0.05
	Tanakpur-HPS	94	88	93	92	2.22	92	2.23	-0.02
	Uri-HPS	480	472	479	480	6.61	276	11.52	-4.90
	Dhauliganga-HPS	280	277	281	281	6.61	276	6.82	-0.21
	Dulhasti-HPS	390	387	408	342	9.17	382	9.38	-0.21
	Sewa-II HPS	120	80	85	75	1.30	54	1.31	-0.01
	Sub Total (C)		3305	2958	3100	2948	67.71	2821	69.99
D.NJPC	Nathpa Jhakri	1500	1600	1624	1620	38.58	1607	38.40	0.18
	Sub Total (D)		1500	1600	1624	1620	38.58	1607	38.40
E. THDC	Tehri HPS	1000	530	525	463	9.57	399	10.00	-0.43
	Koteswar HPS	400	360	179	353	4.90	204	5.00	-0.10
Sub Total (E)		1400	890	704	816	14.47	603	15.00	-0.53
F. BBMB	Bhakra HPS	1480	914	1109	693	22.52	938	21.94	0.58
	Dehar HPS	990	607	825	620	14.90	621	14.57	0.33
	Pong HPS	396	240	268	168	5.78	241	5.76	0.02
	Sub Total (F)		2866	1761	2202	1481	43.20	1800	42.27
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	197	232	5.01	209	4.60	0.41
	KWHEP HPS(IPP)	1000	0	1200	1200	28.33	1180	28.51	-0.18
	Malana Stg-II HPS	100	0	109	109	2.51	105	0.00	2.51
	Shree Cement TPS	300	0	200	265	5.93	247	6.62	-0.69
	Budhil HPS(IPP)	70	0	72	71	1.67	69		1.67
	Sub Total (G)		1662	0	1778	1877	43.44	1810	39.73
H. Total Regional Entities (A-G)		22336	16541	17758	17833	412.05	17169	411.77	0.28

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	1040	1030	24.47	1020	
	Guru Nanak Dev TPS(Bhatinda)	440	207	180	4.16	173	
	Guru Hargobind Singh TPS(L.mbt)	920	890	0	18.42	767	
	Thermal (Total)	2620	2137	1210	47.05	1960	
	Total Hydro	1148	738	419	14.37	599	
	Total Punjab	3768	2875	1629	61.42	2559	
Haryana	Panipat TPS	1367	1047	1130	26.81	1117	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	365	284	8.52	355	
	RGTPP (khedar) (IPP)	1200	491	523	12.45	519	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	477	384	11.49	479	
	Thermal (Total)	4944	2380	2321	59.27	2470	
	Total Hydro	62	26	26	0.94	39	
	Total Haryana	5006	2406	2347	60.22	2509	
	Rajasthan	kota TPS	1240	976	973	22.76	949
		suratgarh TPS	1500	1131	1092	26.23	1093
Chabra TPS		500	217	171	5.16	215	
Dholpur GPS		330	169	92	2.69	112	
Ramgarh GPS		111	51	0	0.81	34	
RAPS A (NPC)		300	175	175	3.97	165	
Barsingar (NLC)		250	184	184	4.74	198	
Giral LTPS		250	92	94	1.95	81	
Rajwest LTPS (IPP)		540	338	338	7.63	318	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	3333	3119	75.94	3164	
Total Hydro		550	0	0	0.00	0	
Wind power		1843	1522	1464	34.89	1454	
Biomass		91	27	27	0.66	27	
Solar		128	0	0	0.32	13	
Renewable/Others (Total)		2062	1549	1491	35.86	1494	
Total Rajasthan		7767	4882	4610	111.80	4658	
UP	Anpara TPS	1630	1302	1240	27.50	1146	
	Obra TPS	1382	519	521	11.30	471	
	Paricha TPS	890	606	586	12.80	533	
	Panki TPS	210	80	80	1.70	71	
	Harduaganj TPS	665	42	232	3.50	146	
	Tanda TPS (NTPC)	440	382	374	9.36	390	
	Roza TPS (IPP)	1200	827	810	19.63	818	
	Anpara-C (IPP)	1200	532	513	12.70	529	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	347	346	8.11	338	
	Thermal (Total)	8067	4637	4702	106.60	4442	
	Vishnuparyag HPS (IPP)	400	436	436	10.47	436	
	Other Hydro	527	178	0	3.83	159	
	Cogeneration	981	200	200	4.80	200	
	Total UP	9975	5451	5338	125.70	4801	
Uttarakhand	Total Hydro	1303	825	847	19.42	809	
	Total Uttarakhand	1303	825	847	19.42	809	
Delhi	Rajghat TPS	135	103	104	2.75	115	
	Delhi Gas Turbine	282	225	222	5.24	218	
	Pragati Gas Turbine	330	269	282	6.89	287	
	Rithala GPS	108	29	22	0.64	27	
	Bawana GPS	677	222	154	3.58	149	
	Badarpur TPS (NTPC)	705	435	395	8.94	372	
	Thermal (Total)	2237	1283	1179	28.03	1168	
	Total Delhi	2237	1283	1179	28.03	1168	
HP	Baspa HPS (IPP)	330	330	330	7.91	330	
	Malana HPS (IPP)	86	92	105	2.27	94	
	Other Hydro	589	405	383	9.31	388	
	Total HP	1005	827	818	19	812	
J & K	Baglihar HPS (IPP)	450	439	440	10.55	440	
	Other Hydro	323	178	197	4.55	189	
	Gas/Diesel/Other	183	0	0	0.00	0	
	Total J & K	956	617	637	15.10	629	
Total State Control Area Generation		32017	19166	17405	441.17	17946	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3465	3363	86.33	3597	
Total Regional Availability(Gross)		54353	40389	38601	939.55	38712	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9136	8406	199.80	8325
State Control Area Hydro	5368	3211	2747	73.15	3048
Total Regional Hydro	15731	12347	11153	272.95	11373

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	500	200	500	0	9.56	0.00	9.56
Gwalior-Agra (D/C)	576	697	984	0	15.94	0.00	15.94
Zerda-Kankroli	181	48	232	100	1.44	0.00	1.44
Zerda-Bhinmal	115	0	164	165	0.31	0.00	0.31
Malanpur-Auraiya	-52	-61	0	123	0.00	1.04	-1.04
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Mundra-Mohinderqarh(HVDC)	0	0	0	0	0.00	0.00	0.00
Sub Total WR	1320	884			27.25	1.04	26.21
Pusaui Bypass	200	200	200	0	4.76	0.00	4.76
MZP- GKP (D/C)	730	1050	1264	0	23.64	0.00	23.64
Patna-Balia(D/C)	456	440	597	0	10.53	0.00	10.53
B'Sharif-Balia (D/C)	365	230	663	0	7.50	0.00	7.50
Barh - Balia(D/C)	280	272	536	0	6.80	0.00	6.80
Pusaui-Balia	-16	-33	102	72	0.64	0.00	0.64
Gaya-Fatehpur (765 Kv)	23	191	234	0	3.69	0.00	3.69
Pusaui-Sahupuri	149	158	170	0	3.58	0.00	3.58
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-42	-29	0	48	0.00	1.02	-1.02
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2145	2479			61.14	1.02	60.12
Total IR Exch	3465	3363			88.39	2.06	86.33

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

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
25.87	3.71	29.59	5.12	24.39	-1.82	4.44	0.00	0.00

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
32.89	27.91	60.80	60.12	26.21	86.33	27.23	-1.70	25.53

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	0.10	5.30	26.60	93.20	71.90	24.80	1.50

<----- 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)
50.44	6.06	49.18	21.13	49.84	0.64	0.20	50.41	49.52

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	18:02	394	13:48	0.0	0.0	0.0	0.0
Gorakhpur	400	428	6:01	398	12:56	0.0	0.0	19.2	0.0
Bareilly	400	418	6:07	381	13:51	0.0	9.6	0.0	0.0
Kanpur	400	414	6:05	384	13:50	0.0	4.9	0.0	0.0
Dadri	400	410	6:05	384	12:50	0.0	11.3	0.0	0.0
Ballabgarh	400	415	6:05	384	13:50	0.0	5.7	0.0	0.0
Bawana	400	411	19:09	395	9:38	0.0	0.0	0.0	0.0
Bassi	400	420	19:00	385	13:50	0.0	2.5	0.0	0.0
Hissar	400	409	21:57	382	13:46	0.0	18.9	0.0	0.0
Moga	400	414	6:05	391	9:39	0.0	0.0	0.0	0.0
Abdullapur	400	414	20:36	281	15:56	0.1	0.1	0.0	0.0
Nalagarh	400	407	20:35	379	11:48	0.1	29.7	0.0	0.0
Kishenpur	400	411	6:04	396	13:49	0.0	0.0	0.0	0.0
Wagooa	400	411	3:04	394	13:47	0.0	0.0	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	467.21	226.00	483.38	544.27	1175.29	850.61
Pong	426.72	384.05	395.03	126.34	460.60	544.90	315.99	460.60
Tehri	829.79	740.04	743.75	19.04	818.65	982.26	385.78	336.00
Koteshwar	612.50	598.50	604.15	2.08	NA	NA	335.00	325.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	385.93	348.99
Rihand	268.22	252.98	254.51	57.30	255.76	106.50	NA	NA
RPS	352.80	343.81	349.77	NA	345.31	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.64	NA	298.02	NA	NA	NA
RSD	527.91	487.91	499.55	NA	509.47	NA	319.78	175.00

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 25.06.2012 :

1. Hot dry weather

XII. Synchronisation of new generating units :

0.00

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 : 25.06.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER