

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.07.2012

Date of Reporting : 26.07.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
35966	6815	42780	49.17	37777	3872	41649	49.92	872.9	115.19

* 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	42.95	19.30		62.25	112.22	118.00	5.79	180.25	37.86
Haryana	41.66	0.85		42.51	68.88	87.87	18.99	130.38	23.60
Rajasthan	65.21	0.00	26.05	91.26	50.98	59.88	8.90	151.14	4.59
Delhi	33.37			33.37	82.27	73.76	-8.51	107.13	0.14
UP	75.23	13.00	1.20	89.43	101.67	131.52	29.85	220.95	41.87
Uttarakhand		11.78		11.78	11.02	14.54	3.52	26.31	4.20
HP		20.81		20.81	4.28	2.47	-1.81	23.28	0.00
J & K		15.25	0.00	15.25	13.52	12.34	-1.18	27.59	2.95
Chandigarh				0.00	6.74	5.84	-0.90	5.84	0.00
Total	258.43	80.98	27.25	366.66	451.56	506.22	54.65	872.87	115.19

* 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	7989	2329	101	2451	8006	1150	451	2122	54.65	
Haryana	5254	1054	420	943	5571	1662	1096	959	23.01	
Rajasthan	5630	967	336	386	6525	0	440	-105	8.26	
Delhi	4455	0	-437	522	4415	0	-433	349	9.99	
UP	8880	2155	1398	222	10137	960	1630	2180	16.60	
Uttarakhand	1242	160	254	15	1194	0	75	-5	0.05	
HP	939	0	-176	-886	879	0	-93	-937	-21.07	
J&K	1316	150	16	-377	824	100	-242	-397	-10.19	
Chandigarh	261	0	-36	39	226	0	-12	10	1.19	
Total	35966	6815	1876	3315	37777	3872	2912	4175	82.48	

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

III. Regional Entities :

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	UI [OG:(+ve), UG: (-ve)]	
							Schedule Net MU	UI Net MU
A. NTPC								
Singrauli STPS	2000	1622	1938	1681	39.52	1647	38.93	0.59
Rihand I STPS	1000	436	462	457	10.55	440	10.45	0.10
Rihand II STPS	1000	940	1014	1008	22.74	947	22.56	0.18
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	769	850	842	18.55	773	18.46	0.09
Dadri II STPS	980	922	981	990	22.28	928	22.13	0.15
Unchahar I TPS	420	334	393	329	8.00	333	8.02	-0.02
Unchahar II TPS	420	320	372	333	7.76	323	7.69	0.07
Unchahar III TPS	210	169	166	176	4.05	169	4.05	0.01
ISTPP (Jhajjar)	1000	704	765	746	16.89	704	16.82	0.06
Dadri GPS	830	769	751	727	16.91	704	17.12	-0.21
Anta GPS	419	391	387	348	8.65	360	8.39	0.26
Auraiya GPS	663	391	298	308	7.16	298	7.64	-0.48
Sub Total (A)	10282	7766	8377	7945	183.05	7627	182.25	0.80
B. NPC								
NAPS	440	254	290	302	6.25	260	6.10	0.15
RAPS- B	440	205	219	222	4.73	197	4.91	-0.19
RAPS- C	440	400	440	463	9.81	409	9.60	0.21
Sub Total (B)	1320	859	949	987	20.78	866	20.61	0.18
C. NHPC								
Chamera I HPS	540	356	360	360	8.62	359	8.52	0.10
Chamera II HPS	300	300	304	301	7.04	293	7.20	-0.16
Chamera III HPS	231	231	235	232	5.54	231	5.53	0.01
Bairasuil HPS	180	182	120	120	2.65	110	2.78	-0.13
Salal-HPS	690	656	657	657	15.80	658	15.73	0.07
Tanakpur-HPS	94	80	93	72	1.95	81	1.93	0.02
Uri-HPS	480	471	480	480	11.48	478	11.55	-0.07
Dhauliganga-HPS	280	277	281	279	6.77	282	6.72	0.04
Dulhasi-HPS	390	387	400	406	9.31	388	9.25	0.05
Sewa-II HPS	120	80	41	0	0.44	18	0.42	0.02
Sub Total (C)	3305	3019	2971	2907	69.59	2899	69.64	-0.06
D.NJPC								
Nathpa Jhakri	1500	1605	1618	1608	38.66	1611	38.52	0.13
Sub Total (D)	1500	1605	1618	1608	38.66	1611	38.52	0.13
E. THDC								
Tehri HPS	1000	720	142	522	5.09	212	5.00	0.09
Koteshwar HPS	400	230	0	221	1.79	75	1.80	-0.01
Sub Total (E)	1400	950	142	743	6.88	287	6.80	0.08
F. BBMB								
Bhakra HPS	1480	759	1209	625	18.90	788	18.21	0.69
Dehar HPS	990	607	660	585	14.81	617	14.57	0.24
Pong HPS	396	177	300	104	4.46	186	5.01	-0.55
Sub Total (F)	2866	1543	2169	1314	38.17	1590	37.78	0.39
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	232	213	5.01	209	4.54	0.46
KWHEP HPS(IPP)	1000	0	1200	1200	28.71	1196	28.63	0.07
Malana Stg-II HPS	100	87	110	107	2.05	85	2.09	-0.04
Shree Cement TPS	300	0	140	144	3.49	145	3.05	0.44
Budhil HPS(IPP)	70		69	69	1.66	69		1.66
Sub Total (G)	1662	87	1752	1733	40.91	1704	38.32	2.59
H. Total Regional Entities (A-G)	22336	15829	17978	17237	398.03	16584	393.92	4.10

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	815	828	18.61	776
	Guru Nanak Dev TPS(Bhatinda)	440	210	210	4.58	191
	Guru Hargobind Singh TPS(L.mbt)	920	902	885	19.76	823
	Thermal (Total)	2620	1927	1923	42.95	1790
	Total Hydro	1148	863	819	19.30	804
	Total Punjab	3768	2790	2742	62.25	2594
Haryana	Panipat TPS	1367	1072	874	25.41	1059
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	380	389	9.11	379
	RGTPP (kheadar) (IPP)	1200	300	359	7.15	298
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	0	0.00	0
	Thermal (Total)	4944	1752	1622	41.66	1736
	Total Hydro	62	27	24	0.85	35
	Total Haryana	5006	1779	1646	42.51	1771
Rajasthan	kota TPS	1240	900	641	18.83	784
	suratgarh TPS	1500	1113	1069	26.14	1089
	Chabra TPS	500	216	224	5.22	218
	Dholpur GPS	330	190	140	3.64	152
	Ramgarh GPS	111	56	14	0.99	41
	RAPS A (NPC)	300	183	183	4.30	179
	Barsingsar (NLC)	250	0	115	1.93	81
	Giral LTPS	250	66	66	1.57	65
	Rajwest LTPS (IPP)	540	107	107	2.59	108
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	2831	2559	65.21	2717
	Total Hydro	550	0	0	0.00	0
	Wind power	1843	778	1311	24.97	1041
	Biomass	91	32	32	0.76	32
	Solar	128	0	0	0.32	13
	Renewable/Others (Total)	2062	810	1343	26.05	1085
	Total Rajasthan	7767	3641	3902	91.26	3802
UP	Anpara TPS	1630	877	881	21.10	879
	Obra TPS	1382	320	317	7.80	325
	Paricha TPS	890	546	565	13.30	554
	Panki TPS	210	117	126	2.80	117
	Harduaganj TPS	665	32	32	0.70	29
	Tanda TPS (NTPC)	440	294	295	7.24	302
	Roza TPS (IPP)	1200	545	545	19.09	795
	Anpara-C (IPP)	1200	0	0	0.00	0
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	170	149	3.20	133
	Thermal (Total)	8067	2901	2910	75.23	3134
	Vishnuparyag HPS (IPP)	400	436	436	10.26	428
	Other Hydro	527	150	0	2.74	114
	Cogeneration	981	50	50	1.20	50
	Total UP	9975	3537	3396	89.43	3299
Uttarakhand	Total Hydro	1303	554	606	11.78	491
	Total Uttarakhand	1303	554	606	11.78	491
Delhi	Rajghat TPS	135	48	48	1.11	46
	Delhi Gas Turbine	282	214	226	5.35	223
	Pragati Gas Turbine	330	278	283	6.86	286
	Rithala GPS	108	20	20	0.37	15
	Bawana GPS	677	269	271	6.33	264
	Badarpur TPS (NTPC)	705	630	625	13.35	556
	Thermal (Total)	2237	1459	1473	33.37	1391
Total Delhi	2237	1459	1473	33.37	1391	
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	86	105	107	2.49	104
	Other Hydro	589	472	413	10.39	433
	Total HP	1005	907	850	21	867
J & K	Baglihar HPS (IPP)	450	438	436	10.52	438
	Other Hydro	323	185	210	4.73	197
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	623	646	15.25	635
Total State Control Area Generation		32017	15290	15261	366.66	14850
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			4821	6117	122.48	5103
Total Regional Availability(Gross)		54353	38089	38615	887.16	36538

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8442	8092	189.05	7877
State Control Area Hydro	5368	3124	2945	80.98	2947
Total Regional Hydro	15731	11566	11037	270.03	10824

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	200	500	500	0	10.53	0.00	10.53
Gwalior-Agra (D/C)	1170	1289	1330	0	28.28	0.00	28.28
Zerda-Kankroli	349	336	417	12	3.39	0.00	3.39
Zerda-Bhinmal	259	183	492	35	4.89	0.00	4.89
Malanpur-Auraiya	14	48	76	0	1.06	0.00	1.06
Badod-Kota/Morak	269	232	269	0	5.13	0.00	5.13
Mundra-Mohindergarh(HVDC)	588	589	592	0	10.14	0.00	10.14
Sub Total WR	2849	3177			63.43	0.00	63.43
Pusauli Bypass	250	250	250	0	6.09	0.00	6.09
MZP- GKP (D/C)	660	1126	1156	0	22.72	0.00	22.72
Patna-Balia(D/C)	270	718	722	0	9.97	0.00	9.97
B'Sharif-Balia (D/C)	343	554	575	0	10.60	0.00	10.60
Barh - Balia(D/C)	325	0	412	0	4.24	0.00	4.24
Pusauli-Balia	-1	-38	68	74	0.00	0.24	-0.24
Gayaa-Fatehpur (765 Kv)	25	185	269	201	3.65	0.00	3.65
Pusauli-Sahupuri	145	170	178	0	3.04	0.00	3.04
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-45	-25	0	48	0.00	1.01	-1.01
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1972	2940			60.30	1.25	59.05
Total IR Exch	4821	6117			123.73	1.25	122.48

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
24.45	3.72	28.17	-4.98	39.01	7.66	6.63	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
30.85	47.37	78.22	59.05	63.43	122.48	28.21	16.06	44.26

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	3.00	11.00	35.00	69.10	64.70	30.60	2.70	0.30

<----- 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				
50.26	6.03	48.83	19.49	49.56	2.69	0.26	50.03	49.11

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	411	21:00	400	0:20	0.0	0.0	0.0	0.0
Gorakhpur	400	433	6:57	402	0:14	0.0	0.0	42.8	5.2
Bareilly	400	417	6:03	395	22:23	0.0	0.0	0.0	0.0
Kanpur	400	421	6:01	398	12:40	0.0	0.0	0.2	0.0
Dadri	400	416	6:02	397	12:38	0.0	0.0	0.0	0.0
Ballabgarh	400	422	6:02	399	15:05	0.0	0.0	0.3	0.0
Bawana	400	418	19:02	398	12:40	0.0	0.0	0.0	0.0
Bassi	400	423	6:02	400	15:00	0.1	0.1	1.7	0.0
Hissar	400	415	19:01	394	14:09	0.0	0.0	0.0	0.0
Moga	400	420	6:01	390	12:38	0.0	0.0	0.0	0.0
Abdullapur	400	419	19:03	400	12:38	0.0	0.0	0.0	0.0
Nalagarh	400	416	5:59	390	12:38	0.0	0.0	0.0	0.0
Kishenpur	400	419	6:02	400	12:38	0.0	0.0	0.0	0.0
Wagoora	400	415	6:02	391	19:19	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	474.64	345.61	493.18	838.00	867.06	663.01
Pong	426.72	384.05	392.32	84.61	412.73	588.94	159.79	482.86
Tehri	829.79	740.04	765.20	165.00	818.65	982.26	345.35	151.00
Koteshwar	612.50	598.50	599.80	0.45	NA	NA	159.00	133.00
Chamera-I	760.00	748.75	750.48	10.00	NA	NA	261.42	270.22
Rihand	268.22	252.98	254.02	38.60	257.04	160.70	NA	NA
RPS	352.80	343.81	349.95	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.21	NA	NA	NA	NA	NA
RSD	527.91	487.91	501.72	NA	509.17	NA	319.44	309.93

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 25.07.2012 :

1: Scattered Rain in NR.

XII. Synchronisation of new generating units :

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

1: 220kV Neemrana (PG) - Neemrana (RRVFN) s/c new line first time synchronised with grid at 21.20hrs dt. 25.07.12

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 25.07.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER