

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 23.07.2012

Date of Reporting : 24.07.2012

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
36210	5782	41992	49.69	37773	3809	41582	49.68	874.0	129.93

* 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	47.44	19.51		66.95	110.58	114.20	3.62	181.15	37.74
Haryana	32.76	0.85		33.61	73.62	83.31	9.69	116.91	26.84
Rajasthan	62.80	0.00	23.75	86.55	41.10	54.75	13.65	141.29	5.80
Delhi	34.37			34.37	81.88	74.90	-6.98	109.28	0.06
UP	72.11	10.00	1.20	83.32	102.19	152.43	50.24	235.75	52.49
Uttarakhand		16.27		16.27	11.61	13.25	1.64	29.51	3.23
HP		20.90		20.90	3.83	3.14	-0.69	24.04	0.82
J & K		15.18	0.00	15.18	13.81	14.74	0.93	29.92	2.95
Chandigarh				0.00	6.59	6.14	-0.46	6.14	0.00
Total	249.48	82.71	24.95	357.14	445.20	516.85	71.65	873.99	129.93

* 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	7644	2044	123	1962	7749	1360	280	2153	47.78	
Haryana	5073	1200	378	1170	5183	693	863	1044	26.07	
Rajasthan	5731	31	617	-653	6198	0	240	-677	-16.00	
Delhi	4932	5	-106	664	4220	0	-424	674	15.71	
UP	8749	2190	1934	82	10886	1656	1600	182	2.24	
Uttarakhand	1302	140	132	-8	1281	0	124	0	-0.08	
HP	968	22	-79	-1896	898	0	-69	-1671	-40.38	
J&K	1528	150	247	-374	1134	100	-32	-374	-9.22	
Chandigarh	282	0	-8	40	224	0	-4	0	1.07	
Total	36210	5782	3239	988	37773	3809	2579	1330	27.19	

* 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	1863	2037	2010	45.29	1887	44.71	0.58
Rihand I STPS	1000	384	454	402	9.36	390	9.21	0.15
Rihand II STPS	1000	932	1005	1007	22.55	940	22.37	0.19
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	769	837	825	18.52	772	18.46	0.07
Dadri II STPS	980	792	946	941	19.03	793	19.00	0.04
Unchahar I TPS	420	349	415	376	8.47	353	8.39	0.08
Unchahar II TPS	420	342	401	372	8.30	346	8.21	0.08
Unchahar III TPS	210	183	210	172	4.42	184	4.39	0.03
ISTPP (Jhajjar)	1000	894	937	814	20.43	851	20.51	-0.08
Dadri GPS	830	734	733	750	17.44	727	17.58	-0.14
Anta GPS	419	386	391	390	9.25	385	9.24	0.00
Auraiya GPS	663	388	391	300	8.41	351	9.25	-0.84
Sub Total (A)	10282	8015	8757	8359	191.47	7978	191.30	0.16
B. NPC								
NAPS	440	256	295	289	6.10	254	6.14	-0.05
RAPS- B	440	197	220	223	4.72	197	4.73	0.00
RAPS- C	440	200	443	463	8.73	364	4.80	3.93
Sub Total (B)	1320	653	958	975	19.55	815	15.67	3.88
C. NHPC								
Chamera I HPS	540	356	360	360	8.50	354	8.50	0.00
Chamera II HPS	300	300	301	300	7.19	300	7.20	0.00
Chamera III HPS	231	231	236	234	5.57	232	5.57	0.00
Bairasuil HPS	180	182	70	120	2.33	97	2.02	0.31
Salal-HPS	690	656	657	656	14.48	603	15.73	-1.25
Tanakpur-HPS	94	43	93	92	1.01	42	1.03	-0.02
Uri-HPS	480	464	480	480	11.56	482	11.54	0.02
Dhauliganga-HPS	280	277	283	282	6.79	283	6.81	-0.02
Dulhasi-HPS	390	387	400	409	9.34	389	9.38	-0.04
Sewa-II HPS	120	80	31	39	0.71	30	0.57	0.14
Sub Total (C)	3305	2975	2911	2972	67.49	2812	68.34	-0.85
D.NJPC								
Nathpa Jhakri	1500	1605	1613	1613	38.68	1612	38.52	0.16
Sub Total (D)	1500	1605	1613	1613	38.68	1612	38.52	0.16
E. THDC								
Tehri HPS	1000	414	320	466	5.07	211	5.00	0.07
Koteshwar HPS	400	230	90	220	1.98	83	1.75	0.23
Sub Total (E)	1400	644	410	686	7.05	294	6.75	0.30
F. BBMB								
Bhakra HPS	1480	758	1204	558	18.61	775	18.19	0.42
Dehar HPS	990	606	825	590	14.91	621	14.55	0.37
Pong HPS	396	231	294	159	5.62	234	5.01	0.61
Sub Total (F)	2866	1595	2323	1307	39.14	1631	37.74	1.40
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	230	192	4.57	191	3.55	1.02
KWHPEP HPS(IPP)	1000	0	1200	1200	28.52	1188	27.63	0.88
Malana Stg-II HPS	100	87	106	107	2.57	107	2.09	0.48
Shree Cement TPS	300	0	144	7	2.83	118	3.22	-0.39
Budhil HPS(IPP)	70	70	70	0	0.38	16		0.38
Sub Total (G)	1662	87	1750	1506	38.87	1620	36.49	2.38
H. Total Regional Entities (A-G)	22336	15574	18722	17418	402.25	16760	394.82	7.43

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	1022	1037	23.01	959	
	Guru Nanak Dev TPS(Bhatinda)	440	211	209	4.53	189	
	Guru Hargobind Singh TPS(L.mbt)	920	905	902	19.90	829	
	Thermal (Total)	2620	2138	2148	47.44	1977	
	Total Hydro	1148	858	748	19.51	813	
	Total Punjab	3768	2996	2896	66.95	2790	
Haryana	Panipat TPS	1367	1005	983	23.82	992	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	377	384	8.94	373	
	RGTPP (kheadar) (IPP)	1200	0	0	0.00	0	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1382	1367	32.76	1365	
	Total Hydro	62	26	29	0.85	36	
	Total Haryana	5006	1408	1396	33.61	1400	
Rajasthan	kota TPS	1240	863	878	20.51	855	
	suratgarh TPS	1500	855	896	20.76	865	
	Chabra TPS	500	219	214	5.13	214	
	Dholpur GPS	330	139	250	4.02	168	
	Ramgarh GPS	111	30	56	1.14	48	
	RAPS A (NPC)	300	170	170	4.20	175	
	Barsingsar (NLC)	250	62	115	2.40	100	
	Giral LTPS	250	112	94	2.13	89	
	Rajwest LTPS (IPP)	540	122	122	2.52	105	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	2572	2795	62.80	2617	
	Total Hydro	550	0	0	0.00	0	
	Wind power	1843	923	1032	22.88	953	
	Biomass	91	26	26	0.62	26	
	Solar	128	0	0	0.26	11	
	Renewable/Others (Total)	2062	949	1058	23.75	990	
	Total Rajasthan	7767	3521	3853	86.55	3606	
	UP	Anpara TPS	1630	895	737	18.40	767
		Obra TPS	1382	321	434	9.30	388
Paricha TPS		890	522	459	12.10	504	
Panki TPS		210	144	144	3.20	133	
Harduaganj TPS		665	32	32	0.70	29	
Tanda TPS (NTPC)		440	295	294	7.27	303	
Roza TPS (IPP)		1200	540	734	14.65	610	
Anpara-C (IPP)		1200	0	257	2.31	96	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	192	176	4.18	174	
Thermal (Total)		8067	2941	3267	72.11	3005	
Vishnuparyag HPS (IPP)		400	0	436	8.26	344	
Other Hydro		527	135	0	1.74	73	
Cogeneration		981	50	50	1.20	50	
Total UP		9975	3126	3753	83.32	3127	
Uttarakhand		Total Hydro	1303	721	619	16.27	678
	Total Uttarakhand	1303	721	619	16.27	678	
Delhi	Rajghat TPS	135	48	47	1.19	50	
	Delhi Gas Turbine	282	218	218	5.21	217	
	Pragati Gas Turbine	330	281	282	5.81	242	
	Rithala GPS	108	44	0	0.68	28	
	Bawana GPS	677	454	246	8.20	342	
	Badarpur TPS (NTPC)	705	630	530	13.29	554	
	Thermal (Total)	2237	1675	1323	34.37	1432	
	Total Delhi	2237	1675	1323	34.37	1432	
HP	Baspa HPS (IPP)	330	330	330	7.92	330	
	Malana HPS (IPP)	86	106	107	2.50	104	
	Other Hydro	589	437	433	10.47	436	
	Total HP	1005	873	870	21	871	
J & K	Baglihar HPS (IPP)	450	438	436	10.45	435	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	623	646	15.18	633	
Total State Control Area Generation		32017	14943	15356	357.14	14536	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			4437	6492	130.92	5455	
Total Regional Availability(Gross)		54353	38102	39266	890.31	36752	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8793	8077	188.02	7834
State Control Area Hydro	5368	3236	2912	82.71	3102
Total Regional Hydro	15731	12029	10989	270.73	10936

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	300	500	500	0	10.72	0.00	10.72
Gwalior-Agra (D/C)	1040	1442	1442	0	28.02	0.00	28.02
Zerda-Kankroli	0	369	379	0	2.71	0.00	2.71
Zerda-Bhinmal	238	355	409	0	5.59	0.00	5.59
Malanpur-Auraiya	-38	-90	0	96	0.00	0.78	-0.78
Badod-Kota/Morak	148	0	221	0	2.57	0.00	2.57
Mundra-Mohindergarh(HVDC)	590	590	594	0	14.30	0.00	14.30
Sub Total WR	2278	3166			63.90	0.78	63.12
Pusauli Bypass	250	250	250	0	6.00	0.00	6.00
MZP- GKP (D/C)	748	1124	1166	0	22.88	0.00	22.88
Patna-Balia(D/C)	298	616	634	0	11.81	0.00	11.81
B'Sharif-Balia (D/C)	299	605	646	0	12.09	0.00	12.09
Barh - Balia(D/C)	298	378	388	0	8.17	0.00	8.17
Pusauli-Balia	57	58	72	0	0.59	0.00	0.59
Gayaa-Fatehpur (765 Kv)	110	176	233	0	3.84	0.00	3.84
Pusauli-Sahupuri	144	144	174	0	3.39	0.00	3.39
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-45	-25	0	48	0.00	0.97	-0.97
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2159	3326			68.77	0.97	67.80
Total IR Exch	4437	6492			132.67	1.75	130.92

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
21.69	3.72	25.41	-3.83	35.88	5.92	5.43	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
27.50	41.65	69.16	67.80	63.12	130.92	40.30	21.47	61.77

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	1.30	9.80	50.20	78.30	49.80	21.70	0.40	0.00

<----- 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				
50.05	19.02	48.83	17.21	49.50	2.97	0.23	49.97	49.09

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	408	19:00	399	1:09	0.0	0.0	0.0	0.0
Gorakhpur	400	429	19:02	390	1:40	0.0	0.0	10.0	0.0
Bareilly	400	417	7:10	379	15:18	0.0	2.2	0.0	0.0
Kanpur	400	418	19:00	395	1:11	0.0	0.0	0.0	0.0
Dadri	400	415	19:00	395	15:21	0.0	0.0	0.0	0.0
Ballabgarh	400	420	19:00	397	1:11	0.0	0.0	0.0	0.0
Bawana	400	418	18:59	399	1:10	0.0	0.0	0.0	0.0
Bassi	400	427	19:00	396	1:11	0.0	0.0	4.9	0.0
Hissar	400	414	19:00	387	1:09	0.0	0.8	0.0	0.0
Moga	400	416	18:00	393	22:04	0.0	0.0	0.0	0.0
Abdullapur	400	418	6:02	290	14:01	0.0	0.0	0.0	0.0
Nalagarh	400	0	0:00	9999	0:00	0.0	0.0	0.0	0.0
Kishenpur	400	414	6:02	399	22:04	0.0	0.0	0.0	0.0
Wagoora	400	412	6:01	392	20:44	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	474.98	350.94	493.64	858.11	913.27	649.87
Pong	426.72	384.05	392.21	84.61	412.99	600.05	356.88	476.40
Tehri	829.79	740.04	766.10	171.98	818.65	982.26	402.00	152.00
Koteshwar	612.50	598.50	599.80	0.45	NA	NA	159.00	133.00
Chamera-I	760.00	748.75	751.82	7.07	NA	NA	351.03	231.41
Rihand	268.22	252.98	254.20	47.90	258.01	202.20	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 23.07.2012 :

1: Normal weather in NR.

XII. Synchronisation of new generating units :

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 : 23.07.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER