

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 29.05.2012
Date of Reporting : 30.05.2012

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
34419	4188	38607	49.83	35836	1952	37788	49.78	837.9	74.22

* 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	49.05	13.50		62.56	81.53	82.59	1.05	145.14	3.05
Haryana	46.33	0.79		47.13	48.85	57.24	8.39	104.37	22.00
Rajasthan	86.55	0.00	13.28	99.83	48.80	48.31	-0.49	148.14	1.86
Delhi	32.10			32.10	83.75	68.82	-14.93	100.92	0.14
UP	89.52	15.33	7.20	112.05	97.52	130.35	32.83	242.39	43.08
Uttarakhand		20.15		20.15	12.36	13.80	1.44	33.96	1.13
HP		17.51		17.51	10.90	7.11	-3.79	24.62	0.00
J & K		15.06	0.00	15.06	18.63	17.48	-1.14	32.54	2.95
Chandigarh				0.00	6.11	5.84	-0.28	5.84	0.00
Total	303.56	82.35	20.48	406.38	408.44	431.53	23.09	837.91	74.22

* 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	5774	450	-202	593	6221	0	-99	593	14.22
Haryana	4225	1417	-26	107	4450	430	542	107	2.56
Rajasthan	6369	143	392	-431	6432	0	-224	-431	-10.34
Delhi	4227	6	-637	597	3978	3	-695	589	16.29
UP	9730	2022	1019	70	11136	1519	2305	75	2.91
Uttarakhand	1522	0	132	26	1372	0	7	26	0.65
HP	885	0	-302	-909	902	0	-203	-516	-16.81
J&K	1433	150	-87	-408	1132	0	-243	-428	-10.37
Chandigarh	254	0	1	0	213	0	-12	0	0.57
Total	34419	4188	290	-354	35836	1952	1378	16	-0.32

* 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	1531	1668	1654	37.09	1545	36.75	0.34
	Rihand I STPS	1000	898	967	980	21.65	902	21.55	0.10
	Rihand II STPS	1000	959	1037	1010	23.19	966	23.01	0.19
	Dadri I STPS	840	793	855	869	19.07	795	19.03	0.04
	Dadri II STPS	980	958	1021	1017	22.79	949	23.00	-0.21
	Unchahar I TPS	420	398	443	432	9.53	397	9.55	-0.02
	Unchahar II TPS	420	404	441	441	9.75	406	9.70	0.05
	Unchahar III TPS	210	201	220	219	4.86	202	4.82	0.03
	ISTPP (Jhajjar)	1000	470	497	392	10.19	425	10.19	0.00
	Dadri GPS	830	743	643	622	14.07	586	14.05	0.03
	Anta GPS	419	380	318	303	7.45	310	7.02	0.43
	Auraiya GPS	663	585	532	501	12.37	516	11.68	0.70
	Sub Total (A)	9782	8319	8642	8440	192.01	8000	190.33	1.68
	B. NPC	NAPS	440	257	290	295	6.11	254	6.17
RAPS- B		440	390	427	435	9.30	387	9.36	-0.06
RAPS- C		440	210	232	228	4.95	206	5.04	-0.09
Sub Total (B)		1320	857	949	958	20.35	848	20.57	-0.22
C. NHPC	Chamera I HPS	540	534	540	540	10.54	439	10.53	0.01
	Chamera II HPS	300	297	302	300	7.19	300	7.21	-0.01
	Bairasuil HPS	180	182	60	182	3.51	146	3.50	0.00
	Salal-HPS	690	631	663	649	15.59	649	15.17	0.42
	Tanakpur-HPS	94	58	62	62	1.50	62	1.44	0.06
	Uri-HPS	480	476	479	479	11.58	483	11.60	-0.02
	Dhauliganga-HPS	280	277	277	284	5.46	227	5.44	0.02
	Dulhasti-HPS	390	388	412	417	9.33	389	9.30	0.03
	Sewa-II HPS	120	80	85	85	1.96	82	1.95	0.01
	Sub Total (C)	3074	2922	2880	2998	66.64	2777	66.13	0.52
D. NJPC	Nathpa Jhakri	1500	1600	1623	1620	34.59	1441	34.22	0.37
	Sub Total (D)	1500	1600	1623	1620	34.59	1441	34.22	0.37
E. THDC	Tehri HPS	1000	520	510	250	5.08	212	5.00	0.08
	Koteshwar HPS	400	300	194	88	2.88	120	2.90	-0.02
Sub Total (E)	1400	820	704	338	7.96	332	7.90	0.06	
F. BBMB	Bhakra HPS	1480	695	1133	536	17.01	709	16.68	0.33
	Dehar HPS	990	592	660	560	14.94	623	14.21	0.74
	Pong HPS	396	246	360	300	6.13	255	5.90	0.23
	Sub Total (F)	2866	1533	2153	1396	38.08	1587	36.78	1.30
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	191	177	3.63	151	3.51	0.12
	KWHEP HPS(IPP)	1000	0	1000	699	19.88	828	18.70	1.18
	Malana Stg-II HPS	100	0	55	54	1.20	50	0.00	1.20
	Shree Cement TPS	300	0	260	259	6.13	255	5.29	0.84
	Sub Total (G)	1592	0	1506	1189	30.85	1285	27.50	3.34
H. Total Regional Entities (A-G)	21535	16050	18457	16939	390.47	16270	383.43	7.04	

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	1050	23.34	972	
	Guru Nanak Dev TPS(Bhatinda)	440	105	210	4.30	179	
	Guru Hargobind Singh TPS(L.mbt)	920	955	960	21.41	892	
	Thermal (Total)	2620	2105	2220	49.05	2044	
	Total Hydro	1148	750	587	13.50	563	
	Total Punjab	3768	2855	2807	62.56	2607	
Haryana	Panipat TPS	1367	1109	885	25.64	1068	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	359	374	8.83	368	
	RGTPP (khedar) (IPP)	1200	473	455	11.86	494	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1941	1714	46.33	1931	
	Total Hydro	62	22	21	0.79	33	
	Total Haryana	5006	1963	1735	47.13	1964	
	Rajasthan	kota TPS	1240	968	966	22.97	957
suratgarh TPS		1500	1321	1376	31.62	1318	
Chabra TPS		500	197	187	4.87	203	
Dholpur GPS		330	112	92	2.97	124	
Ramgarh GPS		111	47	55	1.31	55	
RAPS A (NPC)		300	179	165	4.32	180	
Barsingsar (NLC)		250	207	153	4.80	200	
Giral LTPS		250	149	130	2.27	95	
Rajwest LTPS (IPP)		540	460	459	11.41	476	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	3640	3583	86.55	3606	
Total Hydro		550	0	0	0.00	0	
Wind power		1843	260	797	12.26	511	
Biomass		91	43	43	1.02	43	
Solar		128	0	0	0.00	0	
Renewable/Others (Total)		2062	303	840	13.28	553	
Total Rajasthan		7767	3943	4423	99.83	4160	
UP		Anpara TPS	1630	1046	1085	25.90	1079
		Obra TPS	1382	128	143	3.70	154
		Paricha TPS	640	443	443	10.20	425
	Panki TPS	210	140	122	3.20	133	
	Harduaganj TPS	665	99	0	2.10	88	
	Tanda TPS (NTPC)	440	289	290	7.14	297	
	Roza TPS (IPP)	1200	819	824	19.67	820	
	Anpara-C (IPP)	1200	360	382	8.98	374	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	349	392	8.63	359	
	Thermal (Total)	7817	3673	3681	89.52	3730	
	Vishnuparyag HPS (IPP)	400	436	436	10.46	436	
	Other Hydro	527	216	49	4.87	203	
	Cogeneration	981	300	300	7.20	300	
	Total UP	9725	4625	4466	112.05	4233	
	Uttarakhand	Total Hydro	1303	831	817	20.15	840
		Total Uttarakhand	1303	831	817	20.15	840
Delhi	Rajghat TPS	135	108	101	2.39	100	
	Delhi Gas Turbine	282	216	227	5.18	216	
	Pragati Gas Turbine	330	273	285	6.72	280	
	Rithala GPS	108	29	30	0.70	29	
	Bawana GPS	677	214	251	5.37	224	
	Badarpur TPS (NTPC)	705	545	565	11.76	490	
	Thermal (Total)	2237	1385	1459	32.10	1338	
	Total Delhi	2237	1385	1459	32.10	1338	
HP	Baspa HPS (IPP)	330	224	194	6.15	256	
	Malana HPS (IPP)	86	54	46	1.27	53	
	Other Hydro	589	418	434	10.09	421	
	Total HP	1005	696	674	18	730	
J & K	Baglihar HPS (IPP)	450	438	438	10.51	438	
	Other Hydro	323	178	197	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	616	635	15.06	627	
Total State Control Area Generation		31767	16914	17016	406.38	16497	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			706	3351	51.85	2161	
Total Regional Availability(Gross)		53302	36077	37306	848.71	34927	

IV. Total Hydro Generation:

Regional Entities Hydro	10133	8606	7282	171.99	7166
State Control Area Hydro	5368	3131	2783	71.89	2996
Total Regional Hydro	15500	11737	10065	243.88	10162

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	0	100	300	0	2.24	0.00	2.24
Gwalior-Agra (D/C)	236	991	1148	0	16.63	0.00	16.63
Zerda-Kankroli	-70	53	55	127	0.00	0.68	-0.68
Zerda-Bhinmal	-62	18	116	181	0.00	0.94	-0.94
Malanpur-Auraiya	-136	-13	0	160	0.00	1.68	-1.68
Badod-Kota/Morak	1	49	84	0	0.99	0.00	0.99
Sub Total WR	-31	1198			19.86	3.30	16.56
Pusauli Bypass	-223	69	127	355	0.65	1.64	-0.98
MZP- GKP (D/C)	230	600	660	0	11.76	0.00	11.76
Patna-Balia(D/C)	224	412	412	0	7.91	0.00	7.91
B'Sharif-Balia (D/C)	123	487	488	0	6.37	0.00	6.37
Barh - Balia(D/C)	228	412	412	0	7.99	0.00	7.99
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	149	142	155	0	3.16	0.00	3.16
K'nasa-Sahupuri	48	60	60	0	0.00	0.00	0.00
Son Ngr-Rihand	-42	-29	0	48	0.00	0.91	-0.91
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	737	2153			37.84	2.55	35.29
Total IR Exch	706	3351			57.70	5.85	51.85

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
32.66	0.76	33.42	-1.35	2.81	1.41	2.09	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
36.47	2.03	38.49	35.29	16.56	51.85	-1.18	14.54	13.36

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	0.00	17.80	53.50	82.10	46.40	6.10	0.10

<----- 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)
50.29	6.04	49.24	0.17	49.69	1.35	0.20	50.19	49.44

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	414	18:52	400	11:12	0.0	0.0	0.0	0.0
Gorakhpur	400	433	07:56	402	11:43	0.0	0.0	43.0	4.0
Bareilly	400	420	06:02	391	11:16	0.0	0.0	0.0	0.0
Kanpur	400	417	06:02	401	00:13	0.0	0.0	0.0	0.0
Dadri	400	414	06:02	396	08:46	0.0	0.0	0.0	0.0
Ballabgarh	400	417	06:02	398	08:48	0.0	0.0	0.0	0.0
Bawana	400	414	06:02	397	08:39	0.0	0.0	0.0	0.0
Bassi	400	420	06:04	400	08:20	0.0	0.0	0.0	0.0
Hissar	400	404	12:59	391	09:13	0.0	0.0	0.0	0.0
Moga	400	415	12:59	400	08:47	0.0	0.0	0.0	0.0
Abdullapur	400	405	08:04	396	10:41	0.0	0.0	0.0	0.0
Nalagarh	400	415	06:05	395	10:41	0.0	0.0	0.0	0.0
Kishenpur	400	412	06:04	401	10:40	0.0	0.0	0.0	0.0
Wagoora	400	405	00:23	388	20:16	0.0	1.3	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	468.74	248.16	479.42	447.13	663.35	611.64
Pong	426.72	384.05	400.82	237.89	411.43	544.90	71.13	423.73
Tehri	829.79	740.04	744.70	23.00	818.65	982.26	151.99	175.00
Koteshwar	612.50	598.50	610.35	4.69	NA	NA	176.00	167.00
Chamera-I	760.00	748.75	753.55	NA	NA	NA	250.89	342.37
Rihand	268.22	252.98	256.43	133.70	254.20	45.50	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	500.48	NA	510.70	NA	270.94	212.91

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 29.05.2012 :

Hot weather

XII. Synchronisation of new generating units :

0.00

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

1. 765kV MOGA - BHIWANI LINE FIRST TIME SYNCHRONISED WITH GRID AT 21:10 Hrs of Dt. 29.05.2012.
2. 765kV BUS REACTOR (3*80 MVAR) FIRST TIME TEST CHARGED from 21:05Hrs to 22:12Hrs of Dt. 29.05.2012 at LUCKNOW (PG).
2. 400kV BUS REACTOR (125 MVAR) FIRST TIME TEST CHARGED from 21:30Hrs to 21:45 Hrs. of Dt. 29.05.2012 at AGRA (PG).

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 29.05.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER