

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.05.2014
Date of Reporting : 31.05.2014

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
32602	100	32702	50.10	39751	2490	42241	50.16	874.2	42.66

* 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:

UI [OD:(+ve), UD: (-ve)]

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	38.76	12.86		51.62	78.52	77.92	-0.60	129.55	0.00
Haryana	49.16	0.00		49.16	81.59	74.69	-6.90	123.85	0.00
Rajasthan	114.21	0.00	20.70	134.91	51.95	54.19	2.24	189.10	0.46
Delhi	18.68			18.68	82.16	72.10	-10.06	90.78	0.00
UP	117.35	11.81	1.20	130.37	131.11	134.16	3.05	264.52	40.45
Uttarakhand		0.00		0.00	21.33	21.03	-0.30	21.03	0.00
HP		21.93		21.93	4.45	3.29	-1.16	25.22	0.05
J & K		10.52	0.00	10.52	17.93	13.99	-3.94	24.51	1.70
Chandigarh				0.00	4.82	5.62	0.80	5.62	0.00
Total	338.16	57.13	21.90	417.18	473.85	456.99	-16.86	874.17	42.66

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

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	5750	0	253	701	5986	0	-32	709	17.45
Haryana	3959	0	-982	615	6080	0	-183	457	14.42
Rajasthan	6987	0	-79	-140	7832	0	50	81	2.32
Delhi	1781	0	-1544	538	4372	0	-58	315	11.40
UP	10450	0	299	818	11962	2490	321	1849	26.92
Uttarakhand	1663	0	87	344	1498	0	135	322	7.87
HP	918	0	-10	-1115	949	0	-248	-927	-21.46
J&K	852	100	-510	-496	865	0	-404	-589	-12.64
Chandigarh	242	0	37	0	208	0	22	0	0.24
Total	32602	100	-2449	1266	39751	2490	-397	2217	46.51

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

III. Regional Entities :

UI [OG:(+ve), UG: (-ve)]

A. NTPC	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
		Singrauli STPS	2000	1725	1565	1842	39.08	1628	39.00
	Rihand I STPS	1000	800	881	902	17.10	712	16.99	0.11
	Rihand II STPS	1000	734	803	815	15.58	649	15.38	0.20
	Rihand III STPS	1000	880	954	961	18.69	779	18.67	0.02
	Dadri I STPS	840	813	620	711	17.09	712	17.64	-0.55
	Dadri II STPS	980	980	715	737	18.85	785	19.69	-0.84
	Unchahar I TPS	420	406	311	352	7.80	325	8.36	-0.56
	Unchahar II TPS	420	404	315	323	7.73	322	7.92	-0.20
	Unchahar III TPS	210	202	153	152	3.82	159	3.95	-0.13
	ISTPP (Jhajjar)	1500	1000	402	370	8.80	367	9.11	-0.32
	Dadri GPS	830	798	341	368	8.25	344	8.89	-0.64
	Anta GPS	419	391	244	31	4.33	180	4.40	-0.07
	Auraiya GPS	663	421	142	153	3.30	138	3.42	-0.12
	Dadri Solar	5	1	0	0	0.00	0	0.03	-0.03
	Unchahar Solar	10	0	0	0	0.00	0	0.00	0.00
	Sub Total (A)	11297	9555	7446	7717	170	7100	173	-3
B. NPC	NAPS	440	141	16	165	3.38	141	3.38	0.00
	RAPS- B	440	401	432	445	9.41	392	9.62	-0.21
	RAPS- C	440	210	225	230	4.92	205	5.04	-0.12
	Sub Total (B)	1320	752	673	840	17.71	738	18.05	-0.33
C. NHPC	Chamera I HPS	540	478	180	540	9.73	405	9.70	0.02
	Chamera II HPS	300	297	306	305	7.04	293	7.03	0.02
	Chamera III HPS	231	229	235	228	5.52	230	5.50	0.02
	Bairasui HPS	180	180	180	180	4.39	183	4.32	0.07
	Salal-HPS	690	660	671	676	16.01	667	15.84	0.17
	Tanakpur-HPS	94	44	45	41	1.09	45	1.06	0.03
	Uri-HPS	480	475	476	475	11.51	480	11.40	0.11
	Uri-II HPS	240	240	248	248	5.84	243	5.76	0.08
	Dhauliganga-HPS	280	136	138	138	3.20	133	3.27	-0.07
	Dulhasti-HPS	390	387	405	379	9.33	389	9.30	0.03
	Sewa-II HPS	120	122	131	130	3.08	129	2.93	0.16
	Parbati 3	390	200	200	100	3.60	150	3.06	0.55
	Sub Total ©	3935	3449	3215	3440	80	3347	79	1
D. SJVNL	NJPC	1500	1605	1216	1408	34.08	1420	34.21	-0.13
	Rampur HEP	206	202	206	206	4.97	207	4.89	0.08
	Sub Total (D)	1706	1807	1422	1614	39.05	1627	39.10	-0.05
E. THDC	Tehri HPS	1000	384	384	256	5.05	210	4.98	0.07
	Koteswar HPS	400	116	302	91	2.84	118	2.80	0.04
	Sub Total (E)	1400	500	686	347	7.89	329	7.78	0.11
F. BBMB	Bhakra HPS	1514	674	1314	489	16.49	687	16.19	0.30
	Dehar HPS	990	560	660	560	14.66	611	13.44	1.22
	Pong HPS	396	107	368	62	2.83	118	2.57	0.26
	Sub Total (F)	2900	1342	2342	1111	33.98	1416	32.20	1.78
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	174	205	3.71	154	3.69	0.02
	KWHEP HPS(IPP)	1000	0	603	728	19.53	814	21.75	-2.22
	Malana Stg-II HPS	100	0	113	70	1.41	59	1.32	0.09
	Shree Cement TPS	300	0	143	144	3.49	145	3.56	-0.07
	Budhil HPS(IPP)	70	0	70	70	1.58	66	1.37	0.22
	Sub Total (G)	1662	0	1103	1217	29.72	1238	31.68	-1.97
H. Total Regional Entities (A-G)		24221	17405	16887	16286	379.09	15795	381.41	-2.32

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	700	700	16	660
	Guru Nanak Dev TPS(Bhatinda)	440	80	80	2	72
	Guru Hargobind Singh TPS(L.mbt)	920	506	529	12	507
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	0	646	9	376
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1286	1955	39	1615
	Total Hydro	1148	464	552	12.86	536
Total Punjab	5128	1750	2507	51.62	2151	
Haryana	Panipat TPS	1367	592	443	13.36	557
	DCRTPP (Yamuna nagar)	600	272	262	6.12	255
	Faridabad GPS (NTPC)	432	368	380	8.81	367
	RGTPP (khedar) (IPP)	1200	401	573	10.74	448
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	375	572	10.12	422
	Thermal (Total)	4944	2008	2230	49	2048
	Total Hydro	62	0	0	0.00	0
	Total Haryana	5006	2008	2230	49.16	2048
Rajasthan	kota TPS	1240	796	1087	25.30	2048
	suratgarh TPS	1500	901	1045	24.39	1054
	Chabra TPS	750	392	608	12.94	1016
	Dholpur GPS	330	125	124	3.18	539
	Ramgarh GPS	221	15	34	1.01	133
	RAPS A (NPC)	300	201	201	4.09	42
	Barsingsar (NLC)	250	191	189	4.31	170
	Giral LTPS	250	70	70	1.53	180
	Rajwest LTPS (IPP)	1080	466	819	18.19	64
	VSLP LTPS (IPP)	135	0	0	0.00	758
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	796	812	19.27	0
	Thermal (Total)	7976	3953	4989	114	4759
	Total Hydro	550	0	0	0.00	0
	Wind power	2191	886	1055	19.60	0
	Biomass	91	28	28	0.67	817
	Solar	201	0	0	0.43	28
	Renewable/Others (Total)	2483	914	1083	21	862
Total Rajasthan	11009	4867	6072	134.91	5621	
UP	Anpara TPS	1630	1239	1356	30.10	1254
	Obra TPS	1288	387	170	7.10	296
	Paricha TPS	1140	775	610	16.60	692
	Panki TPS	210	75	45	1.40	58
	Harduaganj TPS	665	409	354	7.90	329
	Tanda TPS (NTPC)	440	368	369	8.97	374
	Roza TPS (IPP)	1200	774	11116	24.67	1028
	Anpara-C (IPP)	1200	527	537	12.02	501
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	281	401	8.60	358
	Thermal (Total)	8223	4835	14958	117	4890
	Vishnuparyag HPS (IPP)	400	416	377	8.96	374
	Other Hydro	527	188	158	2.85	119
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	5489	15543	130.37	5058
Uttarakhand	Total Hydro	1303	0	0	0.00	0
	Total Uttarakhand	1303	0	0	0.00	0
Delhi	Rajghat TPS	135	0	88	1.50	63
	Delhi Gas Turbine	282	116	125	2.86	119
	Pragati Gas Turbine	330	140	140	3.30	138
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	350	570	11.02	459
	Thermal (Total)	2917	606	923	18.68	778
	Total Delhi	2917	606	923	18.68	778
HP	Baspa HPS (IPP)	300	339	287	5.94	248
	Malana HPS (IPP)	86	99	97	1.51	63
	Other Hydro	728	618	623	14.48	603
	Total HP	1114	1056	1007	21.93	914
J & K	Baglihar HPS (IPP)	450	436	438	10.52	438
	Other Hydro/IPP	436	0	0	0.00	0
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	436	438	10.52	438
Total State Control Area Generation		37702	16212	28720	417.18	17009
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1768	5974	100.79	4200
Total Regional Availability(Gross)		61923	34867	50980	897.06	37004

IV. Total Hydro Generation:

Regional Entities Hydro	11233	8555	7515	185.89	7746
State Control Area Hydro	5589	2144	2155	57.13	2007
Total Regional Hydro	16823	10699	9670	243.02	9752

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	500	2.24	4.51	-2.27
Gwalior-Agra (D/C)	1090	1819	1929	0	37.41	0.00	37.41
Zerda-Kankroli	-62	-157	0	280	0.00	4.23	-4.23
Zerda-Bhinmal	-32	-127	0	232	0.00	3.08	-3.08
Malanpur-Auraiya	-108	-39	0	112	0.00	2.58	-2.58
Badod-Kota/Morak	-142	-101	0	169	0.00	2.58	-2.58
Mundra-Mohindergarh(HVDC)	246	1912	1913	0	35.61	0.00	35.61
Sub Total WR	692	3807			75.26	16.98	58.28
Pusaui Bypass	400	400	400	0	9.76	0.00	9.76
MZP- GKP (D/C)	380	580	650	0	10.89	0.00	10.89
Patna-Balia(D/C)	183	493	533	0	8.64	0.00	8.64
B Sharif-Balia (D/C)	192	497	532	0	8.98	0.00	8.98
Pusaui-Balia	-58	-7	15	71	0.00	0.42	-0.42
Gaya-Fatehpur (765 Kv)	-113	10	62	170	0.00	0.15	-0.15
Pusaui-Sahupuri	186	136	213	0	4.36	0.00	4.36
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	0	0	0	0	0.00	0.00	0.00
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-94	58	96	188	0.46	0.00	0.46
Sub Total ER	1076	2167			43.08	0.57	42.51
Total IR Exch	1768	5974			118.34	17.55	100.79

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
27.54	3.57	31.11	8.57	0.37	10.77	2.45	0.00	0.00

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	Total
50.45	60.55	111.00	42.51	58.28	100.79	-7.94	-2.27	-10.21

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

<49.2	<49.7	<49.8	<49.9	<50.0	49.9-50.05	50.05-50.10	50.10-50.20	>50.20	>50.50
0.00	5.01	20.35	53.11	85.22	40.81	3.45	2.01	0.64	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				
50.27	23.24	49.51	14.44	49.89	0.25	0.11	50.34	0.00

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	410	17:31	401	01:11	6.4	6.4	0.0	0.0
Gorakhpur	400	425	17:31	384	01:32	0.0	9.4	0.9	0.0
Bareilly	400	417	17:34	387	19:17	0.0	0.0	0.0	0.0
Kanpur	400	417	17:31	400	13:55	0.0	0.0	0.0	0.0
Dadri	400	424	17:31	398	14:24	0.0	0.0	16.0	0.0
Ballabgarh	400	433	18:02	401	14:25	0.0	0.0	14.9	2.9
Bawana	400	412	07:03	394	22:09	0.0	0.0	0.0	0.0
Bassi	400	427	19:00	400	22:11	0.0	0.0	9.8	0.0
Hissar	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Moga	400	414	18:04	397	22:12	0.0	0.0	0.0	0.0
Abdullapur	400	409	06:04	400	00:09	0.0	0.0	0.0	0.0
Nalagarh	400	410	17:31	399	00:06	0.0	0.0	0.0	0.0
Kishenpur	400	411	18:55	401	03:29	0.0	0.0	0.0	0.0
Wagoora	400	0	00:00	9999	00:00	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	774	17:31	738	22:10	0.0	2.5	0.0	0.0
Balia	765	775	08:11	721	22:16	1.6	29.3	0.0	0.0
Moga	765	795	18:04	756	22:12	0.0	0.0	0.0	0.0
Agra	765	791	19:02	748	23:17	0.0	0.0	0.0	0.0
Bhiwani	765	786	08:05	748	22:12	0.0	0.0	0.0	0.0
Unnao	765	761	17:32	732	22:11	0.0	21.4	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	479.67	454.47	478.86	434.29	484.53	572.68
Pong	426.72	384.05	402.75	281.22	399.60	209.93	60.43	207.90
Tehri	829.79	740.04	743.05	14.17	NA	NA	120.72	182.00
Koteshwar	612.50	598.50	609.79	4.44	599.65	0.30	182.00	167.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	285.12	230.88
Rihand	268.22	252.98	258.07	205.10	256.79	149.00	NA	NA
RPS	352.80	343.81	348.06	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.80	NA	NA	NA	NA	NA
RSD	527.91	487.91	516.64	144.00	506.65	144.00	224.47	197.51

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 30.05.2014 :

1. Heavy dust storm in Delhi, Haryana and UP

XIII. Synchronisation of new generating units :

0.00

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 : 30.05.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER