

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 07.12.2016

Date of Reporting : 08.12.2016



I. Regional Availability/Demand:

Evening Peak (19:00 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
41734	694	42428	50.05	28580	368	28948	50.06	836.14	13.21

* 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	63.33	7.59	0.28	71.20	43.69	42.67	-1.02	113.86	0.00
Haryana	42.12	0.42	0.00	42.54	75.08	71.45	-3.64	113.99	0.00
Rajasthan	121.98	4.59	5.12	131.69	72.18	73.20	1.02	204.88	1.57
Delhi	13.14		0.00	13.14	45.09	43.49	-1.60	56.62	0.05
UP	163.55	7.98	0.00	171.53	80.60	80.15	-0.45	251.68	2.84
Uttarakhand		7.72	0.00	12.03	18.71	19.76	1.06	31.80	0.00
HP		3.66	1.42	5.08	19.26	19.83	0.57	24.91	0.00
J & K		3.79	0.00	3.79	36.98	31.23	-5.75	35.02	8.75
Chandigarh				0.00	3.43	3.38	-0.04	3.38	0.00
Total	404.11	35.74	6.82	450.98	395.01	385.16	-9.85	836.14	13.21

* Shortage furnished by the respective constituent's 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 (19:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Maximum Demand Met (MW) and Time(Hrs)	Shortage (MW)	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction			
Punjab	5833	0	-134	-542	3587	0	52	-459	5833	19:00	0
Haryana	6389	0	-88	-221	3244	0	-77	-523	6389	19:00	0
Rajasthan	9260	0	203	320	7843	0	125	330	10173	8:00	0
Delhi	2983	0	-43	-294	1392	23	-142	-664	3230	11:00	0
UP	12510	275	-168	-199	9253	0	-393	126	12510	19:00	275
Uttarakhand	1671	0	18	137	1029	0	19	282	1738	18:00	0
HP	1232	0	33	267	763	0	44	430	1397	8:00	0
J&K	1677	419	-251	761	1382	345	-164	779	1677	19:00	419
Chandigarh	179	0	-41	0	87	0	-1	0	192	9:00	0
Total	41734	694	-471	229	28580	368	-537	302	41734	19:00	694

* STOA figures are at sellers boundary & PX figures are at regional boundary. # figures may not be at simultaneous hour.

Diversity is 1.03

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

III. Regional Entities :

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
			(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC								
Singrauli STPS (5*200+2*500)	2000	1850	1996	1427	42.21	1759	41.81	0.40
Rihand I STPS (2*500)	1000	946	1021	728	20.32	847	20.31	0.01
Rihand II STPS (2*500)	1000	948	978	721	20.99	875	20.60	0.39
Rihand III STPS (2*500)	1000	948	978	714	20.80	867	20.42	0.38
Dadri I STPS (4*210)	840	815	340	297	7.13	297	7.13	0.00
Dadri II STPS (2*490)	980	980	700	686	17.13	714	17.51	-0.38
Unchahar I TPS (2*210)	420	360	330	274	7.13	297	7.44	-0.31
Unchahar II TPS (2*210)	420	404	307	287	7.57	315	7.90	-0.33
Unchahar III TPS (1*210)	210	202	162	148	3.90	163	4.01	-0.11
ISTPP (Jhajihar) (3*500)	1500	1440	1269	899	21.77	907	21.26	0.51
Dadri GPS (4*130.19+2*154.51)	830	770	299	246	6.45	269	6.90	-0.45
Anta GPS (3*88.71+1*153.2)	419	410	0	0	0.00	0	0.00	0.00
Auraiya GPS (4*111.19+2*109.30)	663	625	0	0	0.00	0	0.00	0.00
Dadri Solar(5)	5	0	0	0	0.01	0	0.01	0.00
Unchahar Solar(10)	10	1	0	0	0.01	0	0.02	-0.01
Singrauli Solar(15)	15	2	0	0	0.04	2	0.05	-0.01
KHEP(4*200)	800	870	611	0	2.79	116	2.61	0.18
Sub Total (A)	12112	11571	8991	6427	178	7427	178	0.26
B. NPC								
NAPS (2*220)	440	408	452	447	9.92	413	9.79	0.13
RAPS- B (2*220)	440	384	427	426	9.18	383	9.22	-0.03
RAPS- C (2*220)	440	218	234	238	5.01	209	5.23	-0.23
Sub Total (B)	1320	1010	1113	1111	24.11	1005	24.24	-0.13
C. NHPC								
Chamera I HPS (3*180)	540	360	272	0	1.40	58	1.20	0.20
Chamera II HPS (3*100)	300	301	203	0	1.21	50	1.05	0.16
Chamera III HPS (3*77)	231	231	151	0	0.61	26	0.55	0.06
Bairasuli HPS(3*60)	180	120	122	0	0.53	22	0.50	0.03
Salal-HPS (6*115)	690	83	230	65	2.42	101	2.00	0.42
Tanakpur-HPS (3*31.4)	94	23	31	30	0.72	30	0.54	0.18
Uri-I HPS (4*120)	480	76	230	21	2.00	83	1.82	0.18
Uri-II HPS (4*60)	240	54	119	39	1.36	57	1.29	0.07
Dhauliganga-HPS (4*70)	280	280	281	0	1.10	46	0.98	0.12
Dulhasti-HPS (3*130)	390	383	397	0	3.25	135	3.00	0.25
Sewa-II HPS (3*40)	120	80	68	0	0.24	10	0.25	-0.01
Parbati 3 (4*130)	520	130	139	0	0.42	17	0.39	0.03
Sub Total (C)	4065	2121	2243	155	15	635	14	1.68
D.SJVNL								
NJPC (6*250)	1500	1610	1507	0	7.64	318	7.49	0.14
Rampur HEP (6*68.67)	412	442	346	0	2.14	89	2.09	0.06
Sub Total (D)	1912	2052	1853	0	9.78	408	9.58	0.20
E. THDC								
Tehri HPS (4*250)	1000	1070	1068	0	6.90	287	6.70	0.20
Koteshwar HPS (4*100)	400	100	203	90	2.46	102	2.41	0.05
Sub Total (E)	1400	1170	1271	90	9.35	390	9.11	0.24
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	616	1018	362	14.84	618	14.78	0.06
Dehar HPS (6*165)	990	141	495	0	3.44	143	3.38	0.06
Pong HPS (6*66)	396	167	396	0	4.00	167	4.01	-0.01
Sub Total (F)	2765	924	1909	362	22.28	928	22.17	0.11
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.54	22	0.51	0.03
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	630	0	4.13	172	4.03	0.10
Malana Stg-II HPS (2*50)	100	0	0	0	0.00	0	0.00	0.00
Shree Cement TPS (2*150)	300	0	-1	-1	-0.04	-2	0.00	-0.04
Budhil HPS(IPP) (2*35)	70	0	0	37	0.19	8	0.15	0.04
Sub Total (G)	1662	0	629	37	4.82	201	4.69	0.13
H. Total Regional Entities (A-G)	25237	18848	18010	8182	263.84	10993	261.34	2.50

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sentout MW)
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	480	480	11.24	468
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.02	-1
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	783	787	17.94	747
	Goidwal(GVK) (2*270)	540	0	0	-0.02	-1

	Rajpura (2*700)	1400	660	330	13.35	556
	Talwandi Saboo (3*660)	1980	880	616	20.85	869
	Thermal (Total)	6560	2803	2213	63.33	2639
	Total Hydro	1000	381	272	7.59	316
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.23	10
	Solar	560	0	0	0.05	2
	Renewable(Total)	848	0	0	0.28	12
	Total Punjab	8408	3184	2485	71.20	2966
Haryana	Panipat TPS (2*210+2*250)	920	204	202	4.93	205
	DCRTPP (Yamuna nagar) (2*300)	600	557	471	12.20	508
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	188	156	4.18	174
	RGTPP (khedar) (IPP) (2*600)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar (CLP) (2*660)	1320	1128	731	20.81	867
	Thermal (Total)	4497	2077	1560	42.12	1755
	Total Hydro	62	8	8	0.42	18
	Wind Power	0	0	0	0.00	0
	Biomass	40	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Renewable(Total)	40	0	0	0.00	0
	Total Haryana	4599	2085	1568	42.54	1772
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	1165	1022	25.86	1077
	suratgarh TPS (6*250)	1500	453	422	10.34	431
	Chabra TPS (4*250)	1000	906	909	21.00	875
	Dholpur GPS (3*110)	330	0	0	0.00	0
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	144	144	3.54	147
	RAPS A (NPC) (1*100+1*200)	300	163	150	4.13	172
	Barsingar (NLC) (2*125)	250	107	109	2.45	102
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	824	830	19.08	795
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	1131	1032	24.87	1036
	Kawai(Adani) (2*660)	1320	453	452	10.72	447
	Thermal (Total)	8876	5346	5070	121.98	5082
	Total Hydro	550	173	175	4.59	191
	Wind power	4017	94	119	2.35	98
	Biomass	99	9	9	0.22	9
	Solar	1295	2	0	2.55	106
	Renewable/Others (Total)	5411	105	128	5.12	213
	Total Rajasthan	14837	5624	5373	131.69	5487
UP	Anpara TPS (3*210+2*500)	1630	924	923	22.85	952
	Obra TPS (2*50+2*94+5*200)	1194	491	419	11.10	463
	Paricha TPS (2*110+2*220+2*250)	1160	819	574	16.50	688
	Panki TPS (2*105)	210	0	68	0.90	38
	Harduaqanj TPS (1*60+1*105+2*250)	665	449	319	9.00	375
	Tanda TPS (NTPC) (4*110)	440	287	209	5.90	246
	Roza TPS (IPP) (4*300)	1200	1075	756	21.40	892
	Anpara-C (IPP) (2*600)	1200	639	621	15.49	645
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	81	58	1.57	65
	Anpara-D(2*500)	1000	583	0	15.08	629
	Lalitpur TPS(3*660)	1980	223	214	5.08	212
	Bara(2*660)	1320	878	724	19.49	812
	Thermal (Total)	12449	6449	4885	144.35	6015
	Vishnuparyag HPS (IPP)(4*110)	440	103	106	2.45	102
	Alaknada(4*82.5)	330	84	75	1.39	58
	Other Hydro	527	52	185	4.13	172
	Cogeneration	981	800	800	19.20	800
	Wind Power	0	0	0	0.00	0
	Biomass	26	0	0	0.00	0
	Solar	102	0	0	0.00	0
	Renewable(Total)	128	0	0	0.00	0
Total UP	14855	7488	6051	171.53	7147	
Uttarakhand	Other Hydro	1250	548	214	7.72	322
	Total Gas	225	187	170	4.28	178
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.03	1
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	327	0	0	0.03	1
Total Uttarakhand	1802	735	384	12.03	501	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	67	68	1.49	62
	Pragati Gas Turbine (2x104+ 1x122)	330	262	266	6.42	267
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	251	280	5.24	218
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	2917	580	614	13.14	547
	Wind Power	0	0	0	0.00	0
	Biomass	16	0	0	0.00	0
	Solar	2	0	0	0.00	0
	Renewable(Total)	18	0	0	0.00	0
Total Delhi	2935	580	614	13.14	547	
HP	Baspa HPS (IPP) (3*100)	300	0	0	1.20	50
	Malana HPS (IPP) (2*43)	86	0	0	0.30	13
	Other Hydro	372	113	48	2.16	90
	Wind Power	0	0	0	0.00	0
	Biomass	0	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Small Hydro (< 25 MW)	486	64	57	1.42	59
	Renewable(Total)	486	64	57	1.42	59
	Total HP	1244	177	105	5.08	212
	J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	111	110	2.65
Other Hydro/IPP(including 98 MW Small Hydro)		308	85	23	1.14	47
Gas/Diesel/Others		190	0	0	0.00	0
Wind Power		0	0	0	0.00	0
Biomass		0	0	0	0.00	0
Solar		0	0	0	0.00	0
Small Hydro (< 25 MW)Included in Other Hydro Above		98	0	0	0.00	0
Renewable(Total)		98	0	0	0.00	0
Total J & K	1398	196	133	4	158	

Total State Control Area Generation	50078	20069	16713	450.98	18791
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		1291	880	179.62	7484
Total Regional Availability(Gross)	75315	39369	25775	894.44	37268

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8517	607	64.12	2671
State Control Area Hydro	7163	1909	1443	37.16	1728
Total Regional Hydro	19397	10426	2050	101.28	4400

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.05	2
State Control Area Renewable	7356	169	185	6.86	286
Total Regional Renewable	7386	169	185	6.91	288

VI(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhychal(HVDC B/B)	300	-500	500	500	4.81	5.30	-0.49
765 KV Gwalior-Agra (D/C)	-1773	-1283	2297	0	40.52	0.00	40.52
400 KV Zerda-Kankroli	-189	-311	0	325	0.00	5.18	-5.18
400 KV Zerda-Bhimnal	-56	-193	108	223	0.00	2.11	-2.11
220 KV Auraiya-Malanpur	-98	-108	0	110	0.00	1.95	-1.95
220 KV Badod-Kota/Morak	-87	-63	0	117	0.00	1.68	-1.68
Mundra-Mohinderghar(HVDC Bipole)	2203	2404	2507	0.00	57.94	0.00	57.94
400 KV RAPP-C-Sujalpur	388	240	520	0	9.12	0.00	9.12
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1145	782	1519	0	28.56	0.00	28.56
Sub Total WR	1833	968			140.94	16.22	124.72
400 kV Sasaram - Varanasi	-299	-259	315	0	7.12	0.00	7.12
400 kV Sasaram - Allahabad	-33	-83	93	0	1.29	0.00	1.29
400 KV MZP- GKP (D/C)	82	354	526	0	8.08	0.00	8.08
400 KV Patna-Balia(D/C) X 2	193	378	458	0	7.76	0.00	7.76
400 KV B'Sharif-Balia (D/C)	170	168	349	0	5.48	0.00	5.48
765 KV Gaya-Balia	232	172	313	0	6.06	0.00	6.06
765 KV Gaya-Varanasi (D/C)	-304	-352	625	0	11.70	0.00	11.70
220 KV Pusaali-Sahupuri	-171	-147	188	0	3.92	0.00	3.92
132 KV K'nasa-Sahupuri	-26	-22	0	36	0.00	0.61	-0.61
132 KV Son Ngr-Rihand	-30	-34	0	43	0.00	0.78	-0.78
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-140	-41	67	140	0.00	0.36	-0.36
400 KV Barh -GKP (D/C)	314	360	370	0	6.92	0.00	6.92
400 kV B'Sharif - Varanasi (D/C)	-30	-82	172	0	10.44	0.00	10.44
Sub Total ER	-42	412			68.76	1.74	67.02
+/- 800 KV BiswanathChariali-Agra	-500	-500	0	500.00	0.00	12.12	-12.12
Sub Total NER	-500	-500			0.00	12.12	-12.12
Total IR Exch	1291	880			209.70	30.08	179.62

VI(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
48.49	1.03	49.52	0.89	-8.82	15.09	3.74	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(including NER)	Through WR	Total	Through ER (including NER)	Through WR	Total
65.50	102.23	167.73	54.90	124.72	179.62	-10.60	22.49	11.89

VI(C). Inter National Exchange with Nepal [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-29	-26	0	31	0	1	-0.69

VII. 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	0.00	0.95	15.57	61.80	70.01	12.11	2.51	0.29	0.00

----- Frequency (Hz) ----->				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX	MIN	
Freq	Time	Freq	Time	Hz	Index	(Hz)	(Hz)		
50.25	6.03	49.71	20.20	49.97	0.059	0.072	0.00	0.00	29.99

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	405	0:00	398	12:33	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	422	0:00	402	17:48	0.0	0.0	1.8	0.0	1.8
Bareilly(PG)400kV	400	424	0:00	397	22:44	0.0	0.0	15.1	0.0	15.1
Kanpur	400	422	0:03	401	15:10	0.0	0.0	1.2	0.0	1.2
Dadri	400	428	2:01	404	15:06	0.0	0.0	26.8	0.0	26.8
Ballabgarh	400	432	0:06	407	12:14	0.0	0.0	43.3	11.4	43.3
Bawana	400	429	0:04	406	15:11	0.0	0.0	39.3	0.0	39.3
Bassi	400	423	4:01	394	12:13	0.0	0.0	2.3	0.0	2.3
Hissar	400	421	3:59	395	15:11	0.0	0.0	0.0	0.0	0.0
Moga	400	422	0:01	399	15:09	0.0	0.0	18.7	0.0	18.7
Abdullapur	400	425	3:20	403	15:08	0.0	0.0	27.0	0.0	27.0
Nalagarh	400	430	2:02	408	15:10	0.0	0.0	33.1	0.0	33.1
Kishenpur	400	420	2:00	388	15:06	0.0	0.5	0.0	0.0	0.0
Wagoora	400	394	15:40	360	15:06	59.3	90.7	0.0	0.0	59.3
Amritsar	400	432	4:03	407	10:47	0.0	0.0	41.9	4.9	41.9
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	426	3:19	403	18:20	0.0	0.0	30.8	0.0	30.8
Rishikesh	400	422	20:39	394	9:38	0.0	0.0	2.9	0.0	2.9

VIII(B). Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	781	0:15	740	9:39	0.0	0.9	0.0	0.0	0.0
Balia	765	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Moga	765	800	20:21	761	15:10	0.0	0.0	0.0	0.0	0.0

Agra	765	793	0:00	753	9:41	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	807	0:00	771	9:37	0.0	0.0	26.4	0.0	26.4
Unnao	765	778	0:03	739	14:54	0.0	6.4	0.0	0.0	0.0
Lucknow	765	808	0:00	767	15:11	0.0	0.0	3.4	0.0	3.4
Meerut	765	811	20:39	767	15:11	0.0	0.0	6.6	0.0	6.6
Jhatikara	765	808	0:00	767	15:11	0.0	0.0	19.1	0.0	19.1
Bareilly 765 kV	765	801	0:00	761	9:38	0.0	0.0	0.4	0.0	0.4
Anta	765	793	20:41	767	7:35	0.0	0.0	0.0	0.0	0.0
Phagi	765	799	20:21	764	9:42	0.0	0.0	0.0	0.0	0.0

Note : '0' in Max / Min Col -> Telemetry Outage

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	403.60	848.04	505.48	1325.82	147.05	461.56
Pong	426.72	384.05	411.10	534.70	414.68	656.23	41.14	262.24
Tehri	829.79	740.04	815.65	915.25	810.30	808.27	41.43	156.00
Koteshwar	612.50	598.50	610.35	4.73	611.18	5.20	156.00	162.02
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	42.56	37.28
Rihand	268.22	252.98	0.00	0.00	0.00	0.00	0.00	0.00
RPS	352.80	343.81	0.00	0.00	0.00	0.00	0.00	0.00
Jawahar Sagar	298.70	295.78	0.00	0.00	0.00	0.00	0.00	0.00
RSD	527.91	487.91	508.20	3.01	504.91	4.25	41.56	131.39

* NA: Not Available

X(A). Short-Term Open Access Details:

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (19:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	-461	2	0	-542	0	0	-13.96	1.75	-12.21
Delhi	-309	-355	0	-398	104	0	-9.49	-2.80	-12.29
Haryana	-852	329	0	-545	325	0	-15.59	7.46	-8.12
HP	362	68	0	294	-27	0	10.22	-1.90	8.32
J&K	621	158	0	617	143	0	14.70	2.75	17.45
CHD	0	0	0	0	0	0	0.00	0.00	0.00
Rajasthan	-7	338	0	-7	327	0	4.40	15.20	19.60
UP	126	0	0	-99	-100	0	-6.50	-1.53	-8.03
Uttarakhand	268	14	0	268	-131	0	5.92	0.41	6.34
Total	-253	554	0	-412	641	0	-10.29	21.35	11.06

X(B). Short-Term Open Access Details:

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-441	-752	331	0	0	0
Delhi	-309	-486	179	-420	0	0
Haryana	-532	-874	338	125	0	0
HP	587	269	68	-637	0	0
J&K	621	602	252	-197	0	0
CHD	0	0	0	0	0	0
Rajasthan	450	-7	1624	130	0	0
UP	154	-760	0	-100	0	0
Uttarakhand	300	135	243	-220	0	0

XI. System Reliability Indices(Violation of TTC and ATC):

(i)%age of times N-1 Criteria was violated in the inter - regional corridors

WR	15.28%
ER	0.00%
Simultaneous	0.00%

(ii)%age of times ATC violated on the inter-regional corridors

WR	47.92%
ER	0.00%
Simultaneous	20.83%

(iii)%age of times Angular Difference on Important Buses was beyond permissible limits(40 deg.)

Rihand - Dadri	0.00%
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XII. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	1	13
Haryana	3	27
Rajasthan	2	27
Delhi	4	36
UP	2	17
Uttarakhand	3	20
HP	4	29
J & K	1	18
Chandigarh	4	41

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 07.12.2016 :

Fog in some parts of NR.

XVI. Synchronisation of new generating units :

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

0

0

XVIII. Tripping of lines in pooling stations :

XIX. Complete generation loss in a generating station :

Note: Data (regarding drawal, generation, shortage, inter-regional flows and reservoir levels) of the constituents filled in the report are as per last furnished data by the respective state/constituent to NRLDC.

Report for : 07.12.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER