

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 26.11.2016

Date of Reporting : 27.11.2016



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
38349	384	38733	50.05	28181	378	28558	50.06	801.34	9.40

* 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	37.50	8.38	0.33	46.21	48.06	49.65	1.59	95.85	0.00
Haryana	23.86	0.44	0.00	24.32	81.43	80.73	-0.70	105.05	0.00
Rajasthan	116.83	4.86	3.02	124.70	72.98	74.41	1.44	199.12	0.18
Delhi	13.83		0.00	13.83	40.10	40.20	0.10	54.03	0.02
UP	149.20	8.33	0.00	157.52	94.70	94.13	-0.57	251.66	0.00
Uttarakhand		7.53	0.00	14.48	17.04	16.62	-0.42	31.10	0.00
HP		3.94	1.58	5.52	18.24	19.08	0.84	24.60	0.00
J & K		5.45	0.00	5.45	34.84	31.36	-3.48	36.80	9.20
Chandigarh				0.00	3.22	3.14	-0.08	3.14	0.00
Total	341.24	38.92	4.93	392.04	410.59	409.31	-1.28	801.34	9.40

* 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	5115	0	-71	-456	3121	0	138	-456	5115	19:00	0
Haryana	5572	0	-56	20	2907	0	-278	-241	5572	19:00	0
Rajasthan	8769	0	-142	517	7724	0	23	514	10070	8:00	0
Delhi	2760	0	-108	-378	1373	0	-7	-546	2928	10:00	0
UP	11942	30	-129	240	9653	0	89	124	11942	19:00	30
Uttarakhand	1380	0	-191	184	1042	0	-17	226	1750	7:00	0
HP	1224	0	-122	127	764	0	24	405	1355	8:00	0
J&K	1418	354	-559	316	1511	378	-222	353	1752	7:00	438
Chandigarh	168	0	-30	-30	86	0	10	-30	172	9:00	0
Total	38349	384	-1407	540	28181	378	-240	350	38349	19:00	384

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

Diversity is 1.06

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

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)	Schedule Net MU	UI	
								Net MU	Net MU
A. NTPC									
Singrauli STPS (5*200+2*500)	2000	1847	2000	1871	44.31	1846	44.04		0.27
Rihand I STPS (2*500)	1000	493	522	469	11.57	482	11.45		0.12
Rihand II STPS (2*500)	1000	948	1044	952	22.47	936	22.22		0.25
Rihand III STPS (2*500)	1000	948	1034	940	22.46	936	22.08		0.38
Dadri I STPS (4*210)	840	815	172	161	4.34	181	4.55		-0.21
Dadri II STPS (2*490)	980	980	394	440	10.31	430	11.19		-0.88
Unchahar I TPS (2*210)	420	360	358	316	7.54	314	8.24		-0.70
Unchahar II TPS (2*210)	420	404	356	304	8.00	333	8.56		-0.56
Unchahar III TPS (1*210)	210	202	188	138	3.93	164	4.34		-0.41
ISTPP (Jhajjar) (3*500)	1500	1440	780	598	18.53	772	19.00		-0.47
Dadri GPS (4*130.19+2*154.51)	830	790	238	326	7.84	327	8.68		-0.84
Anta GPS (3*88.71+1*153.2)	419	409	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	1	0	0	0.02	1	0.02		0.00
Unchahar Solar(10)	10	2	0	0	0.04	2	0.04		0.00
Singrauli Solar(15)	15	2	0	0	0.06	3	0.05		0.01
KHEP(4*200)	800	865	855	0	2.88	120	2.60		0.28
Sub Total (A)	12112	11131	7941	6515	164	6846	167		-2.75
B. NPC									
NAPS (2*220)	440	404	434	447	9.63	401	9.70		-0.07
RAPS- B (2*220)	440	382	420	427	9.16	382	9.17		-0.01
RAPS- C (2*220)	440	220	233	236	5.01	209	5.28		-0.27
Sub Total (B)	1320	1006	1087	1110	23.79	991	24.14		-0.36
C. NHPC									
Chamera I HPS (3*180)	540	540	283	0	1.99	83	1.80		0.19
Chamera II HPS (3*100)	300	301	308	0	1.52	63	1.48		0.04
Chamera III HPS (3*77)	231	231	149	0	0.73	31	0.70		0.03
Bairasuli HPS(3*60)	180	120	122	0	0.58	24	0.55		0.03
Salal-HPS (6*115)	690	114	304	134	3.11	130	2.73		0.38
Tanakpur-HPS (3*31.4)	94	27	32	32	0.79	33	0.64		0.15
Uri-I HPS (4*120)	480	82	232	43	2.16	90	1.97		0.19
Uri-II HPS (4*60)	240	59	40	78	1.48	61	1.41		0.06
Dhauliganga-HPS (4*70)	280	210	214	0	1.23	51	1.16		0.08
Dulhasti-HPS (3*130)	390	383	395	0	2.89	120	2.70		0.19
Sewa-II HPS (3*40)	120	80	80	0	0.22	9	0.25		-0.03
Parbati 3 (4*130)	520	200	110	0	0.66	28	0.60		0.06
Sub Total (C)	4065	2346	2270	287	17	723	16		1.38
D.SJVNL									
NJPC (6*250)	1500	1610	1541	0	7.55	314	7.67		-0.12
Rampur HEP (6*68.67)	412	442	442	0	2.13	89	2.13		0.00
Sub Total (D)	1912	2052	1983	0	9.67	403	9.80		-0.12
E. THDC									
Tehri HPS (4*250)	1000	1075	1075	0	7.18	299	7.00		0.18
Koteshwar HPS (4*100)	400	94	201	93	2.45	102	2.26		0.19
Sub Total (E)	1400	1169	1276	93	9.63	401	9.26		0.37
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	554	1076	389	13.52	563	13.30		0.22
Dehar HPS (6*165)	990	119	495	0	2.94	122	2.85		0.09
Pong HPS (6*66)	396	180	330	66	4.32	180	4.32		0.00
Sub Total (F)	2765	852	1842	455	20.77	865	20.46		0.31
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	56	0	0.54	23	0.51		0.03
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	630	0	4.40	183	4.27		0.13
Malana Stg-II HPS (2*50)	100	0	0	0	0.26	11	0.25		0.02
Shree Cement TPS (2*150)	300	0	0	0	0.00	0	0.00		0.00
Budhil HPS(IPP) (2*35)	70	0	0	0	0.23	9	0.23		0.00
Sub Total (G)	1662	0	686	0	5.43	226	5.26		0.18
H. Total Regional Entities (A-G)	25237	18556	17085	8460	250.95	10456	251.94		-0.99

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) (6*210)	1260	0	0	-0.11	-5
	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	0	0	-0.08	-3
	Goindwal(GVK) (2*270)	540	0	0	-0.02	-1
	Rajpura (2*700)	1400	660	560	15.35	640
	Talwandi Saboo (3*660)	1980	828	616	22.37	932
	Thermal (Total)	6560	1488	1176	37.50	1563
	Total Hydro	1000	374	338	8.38	349
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.27	11
	Solar	560	0	0	0.07	3
	Renewable(Total)	848	0	0	0.33	14
	Total Punjab	8408	1862	1514	46.21	1925
	Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00
DCRTPP (Yamuna nagar) (2*300)		600	560	469	12.65	527
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0
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	550	369	11.22	468
Thermal (Total)		4497	1110	838	23.88	995
Total Hydro		62	13	12	0.44	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	1123	850	24.32	1013
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	1029	1154	25.07
	suratgarh TPS (6*250)	1500	427	423	10.64	444
	Chabra TPS (4*250)	1000	889	893	20.72	863
	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	153	154	3.90	162
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0
	Barsingar (NLC) (2*125)	250	114	114	2.60	108
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	895	841	20.30	846
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	1080	910	23.98	999
	Kawai(Adani) (2*660)	1320	401	404	9.63	401
	Thermal (Total)	8876	4988	4893	116.83	4868
	Total Hydro	550	188	216	4.86	202
	Wind power	4017	70	126	2.28	95
	Biomass	99	20	20	0.47	20
	Solar	1295	5	0	0.27	11
	Renewable/Others (Total)	5411	95	146	3.02	126
	Total Rajasthan	14837	5271	5255	124.70	5196
UP	Anpara TPS (3*210+2*500)	1630	879	586	15.41	642
	Obra TPS (2*50+2*94+5*200)	1194	272	255	6.40	267
	Paricha TPS (2*110+2*220+2*250)	1160	589	584	16.70	696
	Panki TPS (2*105)	210	50	63	1.00	42
	Harduaganj TPS (1*60+1*105+2*250)	665	420	320	9.40	392
	Tanda TPS (NTPC) (4*110)	440	289	185	5.81	242
	Roza TPS (IPP) (4*300)	1200	558	820	17.30	721
	Anpara-C (IPP) (2*600)	1200	1008	990	24.28	1012
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	282	282	7.71	321
	Anpara-D(2*500)	1000	459	416	10.61	442
	Lalitpur TPS(3*660)	1980	365	0	5.98	249
	Bara(2*660)	1320	574	376	11.80	492
	Thermal (Total)	12449	5745	4877	132.40	5517
	Vishnuparyag HPS (IPP)(4*110)	440	107	97	2.48	104
	Alaknada(4*82.5)	330	76	76	1.54	64
	Other Hydro	527	177	165	4.31	180
	Cogeneration	981	700	700	16.80	700
	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	6805	5915	157.52	6564	
Uttarakhand	Other Hydro	1250	645	210	7.53	314
	Total Gas	225	282	251	6.91	288
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.05	2
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	327	0	0	0.05	2
	Total Uttarakhand	1802	927	461	14.48	604
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	77	77	1.79	75
	Pragati Gas Turbine (2x104+ 1x122)	330	265	266	5.91	246
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	250	280	6.24	260
	Badarpur TPS (NTPC) (3*95+2*210)	705	-4	-4	-0.10	-4
	Thermal (Total)	2917	588	619	13.83	576
	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	588	619	13.83	576	

HP	Baspa HPS (IPP) (3*100)	300	28	0	1.35	56
	Malana HPS (IPP) (2*43)	86	44	0	0.27	11
	Other Hydro	372	121	41	2.32	97
	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	70	63	1.58	66
	Renewable(Total)	486	70	63	1.58	66
	Total HP	1244	264	103	5.52	230
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	200	88	2.68
Other Hydro/IPP(including 98 MW Small Hydro)		308	138	93	2.77	115
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	338	181	5	227
Total State Control Area Generation		50078	17177	14898	392.04	16335
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		6051	6264	183.59	7650	
Total Regional Availability(Gross)	75315	40313	29622	826.58	34441	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8912	835	65.51	2730
State Control Area Hydro	7163	2464	1649	40.50	1977
Total Regional Hydro	19397	11375	2484	106.01	4707

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.13	5
State Control Area Renewable	7356	165	209	4.97	207
Total Regional Renewable	7386	165	209	5.10	212

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	
Vindhyachal(HVDC B/B)	-100	-100	100	300	0.93	1.81	-0.88
765 KV Gwalior-Agra (D/C)	1910	1854	2566	0	52.82	0.00	52.82
400 KV Zerda-Kankroli	-137	-92	69	137	0.00	1.85	-1.85
400 KV Zerda-Bhinmal	-62	-1	254	117	0.60	0.00	0.60
220 KV Auraiya-Malanpur	-76	-91	0	103	0.00	1.79	-1.79
220 KV Badod-Kota/Morak	-40	-87	18	95	0.00	1.16	-1.16
Mundra-Mohindergarh(HVDC Bipole)	2198	1502	2206	0.00	46.22	0.00	46.22
400 KV RAPP- Sujalpur	440	260	511	0	9.81	0.00	9.81
400 KV Vindhyachal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kv Phagi-Gwalior (D/C)	697	1121	1595	0	29.22	0.00	29.22
Sub Total WR	4830	4366			139.60	6.61	132.99
400 kv Sasaram - Varanasi	131	137	138	0	1.68	0.00	1.68
400 kv Sasaram - Allahabad	15	2	38	66	0.18	0.00	0.18
400 KV MZP- GKP (D/C)	156	380	538	0	9.10	0.00	9.10
400 KV Patna-Balia(D/C) X 2	409	526	674	0	12.48	0.00	12.48
400 KV B'Sharif-Balia (D/C)	114	156	274	0	4.56	0.00	4.56
765 KV Gaya-Balia	235	248	356	0	6.65	0.00	6.65
765 KV Gaya-Varanasi (D/C)	342	482	790	0	14.45	0.00	14.45
220 KV Pusaali-Sahupuri	160	162	206	0	4.11	0.00	4.11
132 KV K'nasa-Sahupuri	-28	-24	0	30	0.00	0.55	-0.55
132 KV Son Ngr-Rihand	-30	-28	0	43	0.00	0.82	-0.82
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-169	-34	173	169	0.00	0.07	-0.07
400 KV Barh -GKP (D/C)	338	444	450	0	9.14	0.00	9.14
400 kv B'Sharif - Varanasi (D/C)	48	-53	207	48	1.58	0.00	1.58
Sub Total ER	1721	2398			63.94	1.43	62.51
+/- 800 KV Biswanath Charialli-Agra	-500	-500	0	500.00	0.00	11.91	-11.91
Sub Total NER	-500	-500			0.00	11.91	-11.91
Total IR Exch	6051	6264			203.54	19.95	183.59

VI(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
50.51	1.28	51.79	-0.55	-9.53	11.61	20.18	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
62.85	115.85	178.70	50.60	132.99	183.59	-12.25	17.14	4.89

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	-30	-27	0	31	0	1	-0.63

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	2.16	13.17	58.25	72.25	10.42	4.25	0.00	0.00

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX (Hz)	MIN (Hz)	
Freq	Time	Freq	Time						
50.19	5.02	49.72	17.38	49.98	0.060	0.075	0.00	0.00	27.75

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	411	0:00	402	8:17	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	420	4:01	403	17:39	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	424	2:01	400	12:18	0.0	0.0	15.7	0.0	15.7
Kanpur	400	420	2:01	400	12:18	0.0	0.0	0.0	0.0	0.0
Dadri	400	430	2:01	401	12:10	0.0	0.0	26.5	0.0	26.5
Ballabgarh	400	434	2:02	403	12:18	0.0	0.0	41.0	16.5	41.0
Bawana	400	431	1:00	403	12:12	0.0	0.0	38.6	1.8	38.6
Bassi	400	424	19:43	396	6:15	0.0	0.0	7.1	0.0	7.1
Hissar	400	424	2:02	394	12:19	0.0	0.0	18.5	0.0	18.5
Moga	400	424	0:59	399	12:13	0.0	0.0	22.3	0.0	22.3
Abdullapur	400	428	0:49	398	11:45	0.0	0.0	23.1	0.0	23.1
Nalagarh	400	434	0:52	401	12:19	0.0	0.0	38.5	18.8	38.5
Kishenpur	400	420	1:35	396	11:10	0.0	0.0	0.0	0.0	0.0
Wagoora	400	399	13:01	364	18:15	57.5	84.5	0.0	0.0	57.5
Amritsar	400	433	4:00	406	8:46	0.0	0.0	42.2	13.0	42.2
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	428	0:55	397	11:14	0.0	0.0	46.7	0.0	46.7
Rishikesh	400	422	2:01	393	12:18	0.0	0.0	2.5	0.0	2.5

VIII(B). Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	776	2:01	745	12:18	0.0	0.0	0.0	0.0	0.0
Balia	765	793	2:00	765	17:40	0.0	0.0	0.0	0.0	0.0
Moga	765	806	21:28	758	12:11	0.0	0.0	5.7	0.0	5.7
Agra	765	792	19:43	753	22:08	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	811	1:59	763	12:12	0.0	0.0	25.9	0.0	25.9
Unnao	765	776	2:01	743	12:18	0.0	0.0	0.0	0.0	0.0
Lucknow	765	805	2:01	771	12:18	0.0	0.0	14.1	0.0	14.1
Meerut	765	810	20:57	761	12:18	0.0	0.0	6.7	0.0	6.7
Jhatikara	765	811	4:00	758	12:18	0.0	0.0	21.5	0.0	21.5
Bareilly 765 kV	765	799	2:00	757	12:18	0.0	0.0	0.0	0.0	0.0
Anta	765	800	21:01	718	14:47	2.5	2.5	0.0	0.0	2.5
Phagi	765	802	3:59	764	11:56	0.0	0.0	5.8	0.0	5.8

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	495.68	926.03	506.89	1396.66	169.33	402.10
Pong	426.72	384.05	412.05	566.84	416.04	718.14	56.15	273.97
Tehri	829.79	740.04	818.30	968.25	812.75	857.27	42.53	160.00
Koteswar	612.50	598.50	609.78	4.45	610.61	4.90	160.00	161.76
Chamera-I	760.00	748.75	759.50	0.00	0.00	0.00	51.60	53.36
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	510.02	2.91	506.58	1.04	51.86	124.75

* 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	-456	0	0	-456	0	0	-13.56	0.90	-12.66
Delhi	-209	-337	0	-332	-46	0	-8.99	-1.56	-10.55
Haryana	-596	355	0	-311	331	0	-9.90	8.40	-1.50
HP	292	114	0	198	-71	0	7.93	-0.89	7.04
J&K	353	0	0	331	-15	0	7.85	-0.12	7.73
CHD	-30	0	0	-30	0	0	-0.36	0.00	-0.36
Rajasthan	-7	521	0	-7	524	0	6.70	18.97	25.66
UP	124	0	0	-49	288	0	-5.47	5.22	-0.25
Uttarakhand	146	80	0	146	37	0	3.71	2.70	6.41
Total	-383	733	0	-509	1049	0	-12.10	33.62	21.52

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-456	-719	296	-12	0	0
Delhi	-209	-574	311	-461	0	0
Haryana	-83	-629	365	329	0	0
HP	469	198	114	-611	0	0
J&K	353	305	0	-15	0	0
CHD	0	-30	0	0	0	0
Rajasthan	659	-7	2225	502	0	0
UP	161	-649	485	-100	0	0
Uttarakhand	182	146	357	-65	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	0.00%
ER	0.00%
Simultaneous	0.00%

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

WR	0.00%
ER	0.00%
Simultaneous	0.00%

(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	3	27
Haryana	0	12
Rajasthan	0	12
Delhi	2	23
UP	1	13
Uttarakhand	5	57
HP	4	37
J & K	2	19
Chandigarh	2	30

XIII. System Constraints:**XIV. Grid Disturbance / Any Other Significant Event:****XV. Weather Conditions For 26.11.2016 :**

Normal

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

1. 500MVA ICT-2 at 400kV GSS Aligarh first time charged at no load at 1725Hrs of 26.11.16

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 : 26.11.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER