

Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	0	0	0.10	4
	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	0.09	4
	Goindwal(GVK) (2*270)	540	430	290	9.28	387
	Rajpura (2*700)	1400	1320	660	26.81	1117
	Talwandi Saboo (3*660)	1980	1200	924	26.65	1110
	Thermal (Total)	6560	2950	1874	62.94	2623
	Total Hydro	1000	390	399	9.48	395
	Wind Power	0	0	0	0.00	0
	Biomass	303	0	0	0.30	13
	Solar	859	0	0	0.06	2
	Renewable(Total)	1162	0	0	0.36	15
	Total Punjab	8722	3340	2273	72.78	3032
	Haryana	Panipat TPS (2*210+2*250)	920	470	401	10.54
DCRTPP (Yamuna nagar) (2*300)		600	560	466	12.46	519
Faridabad GPS (NTPC)(2*137.75+1*156)		432	310	280	7.27	303
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	1225	736	25.53	1064
Thermal (Total)		4497	2565	1883	55.80	2325
Total Hydro		62	11	12	0.34	14
Wind Power		0	0	0	0.00	0
Biomass		106	0	0	0.00	0
Solar		50	0	0	0.00	0
Renewable(Total)		156	0	0	0.00	0
Total Haryana		4715	2576	1895	56.14	2339
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	969	893	21.56
	suratgarh TPS (6*250)	1500	1267	901	26.72	1113
	Chabra TPS (4*250)	1000	908	762	21.00	875
	Chabra TPS (1*660)	660	0	0	0.00	0
	Dholpur GPS (3*110)	330	141	128	3.40	142
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	176	181	4.33	181
	RAPS A (NPC) (1*100+1*200)	300	189	233	4.26	178
	Barsingar (NLC) (2*125)	250	224	224	5.33	222
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	843	507	18.55	773
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	0	0	0.00	0
	Kawai(Adani) (2*660)	1320	617	432	13.00	542
	Thermal (Total)	9536	5334	4261	118.15	4923
	Total Hydro	550	169	116	4.33	180
	Wind power	4292	114	854	8.24	343
	Biomass	102	23	23	0.55	23
	Solar	1995	0	0	2.28	95
	Renewable/Others (Total)	6389	137	877	11.06	461
Total Rajasthan	16475	5640	5254	133.55	5564	
UP	Anpara TPS (3*210+2*500)	1630	1046	1043	32.02	1334
	Obra TPS (2*50+2*94+5*200)	1194	403	517	13.04	543
	Paricha TPS (2*110+2*220+2*250)	1160	558	433	11.70	488
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	440	317	8.76	365
	Tanda TPS (NTPC) (4*110)	440	364	274	7.84	327
	Roza TPS (IPP) (4*300)	1200	769	753	18.69	779
	Anpara-C (IPP) (2*600)	1200	819	759	23.78	991
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	327	451	10.65	444
	Lalitpur TPS(3*660)	1980	605	378	11.99	500
	Bara(2*660)	1320	513	374	11.88	495
	Thermal (Total)	12449	5844	5299	150.36	6265
	Vishnuparyag HPS (IPP)(4*110)	440	107	102	2.53	105
	Alakanada(4*82.5)	330	75	78	1.86	78
	Other Hydro	527	172	35	1.96	81
	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	6998	6314	175.90	7329	
Uttarakhand	Other Hydro	1250	583	211	8.39	350
	Total Gas	450	297	305	7.27	303
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	100	0	0	0.50	21
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	407	0	0	0.50	21
	Total Uttarakhand	2107	880	516	16.16	673
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	74	76	1.87	78
	Pragati Gas Turbine (2x104+ 1x122)	330	275	272	6.62	276
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	271	254	6.36	265
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	2917	620	602	14.85	619
	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	620	602	14.85	619	
HP	Baspa HPS (IPP) (3*100)	300	28	0	1.36	57
	Malana HPS (IPP) (2*43)	86	51	0	0.29	12
	Other Hydro (>25MW)	372	125	67	2.33	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	84	49	1.59	66
Renewable(Total)	486	84	49	1.59	66	
Total HP	1244	288	116	5.57	232	
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	147	147	3.53	147
	Other Hydro/IPP(including 98 MW Small Hydro)	308	90	32	1.12	46
	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	237	179	5	193
Total State Control Area Generation	52451	20578	17148	479.58	19982
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		5867	7172.71	142.96	5957
Total Regional Availability(Gross)	78288	43820	32328	872.12	36338

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8899	680	70.02	2908
State Control Area Hydro	7468	2329	1553	37.50	1953
Total Regional Hydro	19702	11228	2233	107.52	4861

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.08	3
State Control Area Renewable	8844	221	926	13.51	563
Total Regional Renewable	8874	221	926	13.59	566

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)	-250	250	250	250	4.52	1.46	3.06
765 KV Gwalior-Agra (D/C)	1357	1669	2066	0	35.01	0.00	35.01
400 KV Zerda-Kankroli	-152	-195	0	252	0.00	4.37	-4.37
400 KV Zerda-Bhinmal	-133	-163	126	-219	0.00	2.19	-2.19
220 KV Auraiya-Malanpur	-79	-57	0	181	0.00	2.09	-2.09
220 KV Badod-Kota/Morak	-157	-151	4	158	0.00	3.16	-3.16
Mundra-Mohindergarh(HVDC Bipole)	1001	1003	1005	0	24.17	0.00	24.17
400 KV RAPP- Sujalpur	62	-19	316	-53	1.97	0.00	1.97
400 KV Vindhychal-Rihand	0	0	0	0	0.00	22.82	-22.82
765 kV Phagi-Gwalior (D/C)	1057	1246	842	0	30.62	0.00	30.62
+/- 800 kV HVDC Champa-Kurushetra	1000	1000	3000	0	22.10	0	22.10
Sub Total WR	3706	4583			118.39	36.09	82.30
400 kV Sasaram - Varanasi	171	169	187	0	4.05	0.00	4.05
400 kV Sasaram - Allahabad	69	76	107	0	1.78	0.00	1.78
400 KV MZP- GKP (D/C)	148	309	513	0	7.49	0.00	7.49
400 KV Patna-Balia(D/C) X 2	715	878	1088	0	19.85	0.00	19.85
400 KV B'Sharif-Balia (D/C)	58	136	244	0	3.46	0.00	3.46
765 KV Gaya-Balia	151	185	265	0	2.32	0.00	2.32
765 KV Gaya-Varanasi (D/C)	93	233	0	491	6.52	0.00	6.52
220 KV Pusauli-Sahupuri	98	66	102	0	1.98	0.00	1.98
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	0	0	0	0	0.00	0.51	-0.51
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-40	-22	153	132	0.30	0.00	0.30
400 KV Motihari -GKP (D/C)	-252	-124	0	252	0.00	4.10	-4.10
400 kV B'Sharif - Varanasi (D/C)	100	-16	157	108	0.00	0.36	-0.36
+/- 800 KV HVDC Alipurduar-Agra	150	0	150	0	3.68	0.00	3.68
Sub Total ER	1461	1890			51.42	4.98	46.44
+/- 800 KV HVDC BiswanathCharialli-Agra	700	700	700	0.00	14.22	0.00	14.22
Sub Total NER	700	700			14.22	0.00	14.22
Total IR Exch	5867	7173			184.02	41.06	142.96

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
47.90	0.69	48.59	0.37	-37.07	1.63	-3.80	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
50.59	105.15	155.74	60.66	82.30	142.96	10.06	-22.85	-12.79

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	-23	0	0	29	0	0	-0.26

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	0.72	11.27	62.09	74.51	11.15	2.95	0.16	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)	
50.22	13.04	49.74	15.46	49.98	0.049	0.067	50.12	49.86	25.49

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviation Index
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	403	12:06	398	6:28	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	417	1:02	404	17:22	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	421	2:02	404	1:34	0.0	0.0	0.2	0.0	0.2
Kanpur	400	419	13:03	411	11:50	0.0	0.0	0.0	0.0	0.0
Dadri	400	425	2:00	411	10:11	0.0	0.0	34.1	0.0	34.1
Ballabhgarh	400	424	2:58	408	10:08	0.0	0.0	22.7	0.0	22.7
Bawana	400	424	1:58	409	10:08	0.0	0.0	33.9	0.0	33.9
Bassi	400	427	20:52	400	6:27	0.0	0.0	15.6	0.0	15.6
Hissar	400	422	4:00	403	6:29	0.0	0.0	1.0	0.0	1.0
Moga	400	421	3:01	405	6:25	0.0	0.0	0.9	0.0	0.9
Abdullapur	400	426	0:01	410	17:49	0.0	0.0	35.2	0.0	35.2
Nalagarh	400	431	21:51	412	17:51	0.0	0.0	41.8	0.6	41.8
Kishenpur	400	420	0:05	401	18:11	0.0	0.0	0.0	0.0	0.0
Wagoora	400	398	3:35	376	18:19	8.0	68.7	0.0	0.0	8.0
Amritsar	400	428	3:00	412	6:29	0.0	0.0	35.5	0.0	35.5
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	419	0:00	419	0:00	0.0	0.0	0.0	0.0	0.0

Rishikesh	400	421	4:01	403	12:09	0.0	0.0	0.1	0.0	0.1
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VIII(B). Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviation Index
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	783	13:01	757	7:19	0.0	0.0	0.0	0.0	0.0
Balia	765	792	2:00	772	17:51	0.0	0.0	0.0	0.0	0.0
Moga	765	801	13:02	762	6:29	0.0	0.0	0.2	0.0	0.2
Agra	765	798	19:31	764	7:18	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	806	4:01	779	6:22	0.0	0.0	10.9	0.0	10.9
Unnao	765	779	2:02	756	9:47	0.0	0.0	0.0	0.0	0.0
Lucknow	765	798	3:01	771	17:52	0.0	0.0	0.0	0.0	0.0
Meerut	765	809	13:02	691	12:50	0.0	0.0	25.8	0.0	25.8
Jhatikara	765	808	3:59	779	6:30	0.0	0.0	22.6	0.0	22.6
Bareilly 765 kV	765	802	3:01	772	10:08	0.0	0.0	2.1	0.0	2.1
Anta	765	802	13:03	768	6:28	0.0	0.0	0.2	0.0	0.2
Phagi	765	805	20:52	768	6:27	0.0	0.0	2.0	0.0	2.0

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)	nflow (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	504.35	1285.56	495.01	903.28	192.41	430.27
Pong	426.72	384.05	414.36	644.91	411.67	555.85	54.68	313.33
Tehri	829.79	740.04	818.40	970.26	817.25	947.25	40.51	142.00
Koteshwar	612.50	598.50	611.19	5.20	611.09	5.10	142.00	145.98
Chamera-I	760.00	748.75	756.90	0.00	0.00	0.00	46.98	47.86
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	508.99	3.05	509.46	3.62	50.13	156.40

* 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 (MU)	PXIL (MU)	Total (MU)
Punjab	-642	-101	0	-642	-917	0	-16.43	-7.65		-24.08
Delhi	-955	-321	0	-557	-344	0	-17.70	-3.63		-21.33
Haryana	-698	149	0	-698	-327	0	-22.99	0.32		-22.67
HP	315	95	0	213	-14	0	7.85	-1.24		6.62
J&K	500	255	0	500	265	0	12.00	3.70		15.70
CHD	0	0	0	0	0	0	0.00	-0.18		-0.18
Rajasthan	177	27	0	-8	-401	0	3.05	3.73		6.78
UP	87	-72	0	-55	-68	0	-4.56	-1.66		-6.22
Uttarakhand	24	213	0	24	376	0	0.74	6.65		7.39
Total	-1193	244	0	-1224	-1431	0	-38.03	0.04		-37.99

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-642	-744	-101	-968	0	0
Delhi	-556	-955	225	-645	0	0
Haryana	-698	-1370	154	-528	0	0
HP	416	212	213	-701	0	0
J&K	500	500	383	-428	0	0
CHD	0	0	20	-92	0	0
Rajasthan	177	-8	1856	-854	0	0
UP	87	-540	-68	-72	0	0
Uttarakhand	82	24	473	-12	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	1	15
Haryana	2	16
Rajasthan	2	36
Delhi	4	25
UP	0	11
Uttarakhand	2	29
HP	3	39
J & K	4	36
Chandigarh	4	36

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 30.11.2017 :

XVI. Synchronisation of new generating units :

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

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 : 30.11.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER