

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	160	320	4.77	199
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	100	100	2.31	96
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	203	367	5.32	222
	Goindwal(GVK) (2*270)	540	0	0	0.00	0
	Rajpura (2*700)	1400	1120	660	21.00	875
	Talwandi Saboo (3*660)	1980	308	308	8.11	338
	Thermal (Total)	6560	1891	1755	41.52	1730
	Total Hydro	1000	416	355	9.30	388
Total Punjab	7560	2307	2110	50.83	2118	
Haryana	Panipat TPS (4*110+2*210+2*250)	1367	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	0	0	0.00	0
	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	0	385	3.65	152
	Thermal (Total)	4944	0	385	3.65	152
	Total Hydro	62	18	35	0.55	23
Total Haryana	5006	18	420	4.20	175	
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	460	801	16.62	692
	suratgarh TPS (6*250)	1500	573	379	12.54	523
	Chabra TPS (4*250)	1000	479	558	11.88	495
	Dholpur GPS (3*110)	330	79	0	1.73	72
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	182	1765	4.43	185
	RAPS A (NPC) (1*100+1*200)	300	135	131	3.37	141
	Barsingsar (NLC) (2*125)	250	79	80	1.81	75
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwst LTPS (IPP) (8*135)	1080	817	444	12.99	541
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	1120	816	21.32	888
	Kawai(Adani) (2*660)	1320	1080	868	23.28	970
	Thermal (Total)	8876	5004	5842	110	4582
	Total Hydro	550	0	0	0.00	0
	Wind power	3214	517	1737	29.59	1233
	Biomass	99	22	22	0.52	22
	Solar	730	0	0	2.71	113
	Renewable/Others (Total)	4043	539	1759	32.82	1367
	Total Rajasthan	13469	5543	7601	142.77	5949
UP	Anpara TPS (3*210+2*500)	1630	1400	1363	32.83	1368
	Obra TPS (2*50+2*94+5*200)	1194	563	535	13.32	555
	Paricha TPS (2*110+2*220+2*250)	1160	189	193	4.17	174
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaqanj TPS (1*60+1*105+2*250)	665	221	223	4.86	203
	Tanda TPS (NTPC) (4*110)	440	193	190	4.30	179
	Roza TPS (IPP) (4*300)	1200	266	275	5.21	217
	Anpara-C (IPP) (2*600)	1200	540	540	11.87	495
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	162	162	3.81	159
	Anpara-D(2*500)	1000	439	298	8.41	350
	Lalitpur TPS(3*660)	1980	0	0	0.00	0
	Bara(2*660)	1320	0	0	0.00	0
	Thermal (Total)	12449	3973	3779	89	3699
	Vishnuparyag HPS (IPP)(4*110)	440	385	435	9.82	409
	Alaknanda(4*82.5)	330	220	168	3.41	142
	Other Hydro	527	20	35	1.44	60
	Cogeneration	981	100	100	2.40	100
Total UP	14727	4698	4517	106	4410	
Uttarakhand	Total Hydro	1398	642	592	14.45	602
	Total Uttarakhand	1398	642	592	14.45	602
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	32	33	0.80	33
	Pragati Gas Turbine (2x104+ 1x122)	330	263	265	6.39	266
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	0	255	2.76	115
	Badarpur TPS (NTPC) (3*95+2*210)	705	321	317	7.03	293
	Thermal (Total)	2917	617	870	16.98	708
	Total Delhi	2917	617	870	16.98	708
HP	Baspa HPS (IPP) (3*100)	300	132	335	5.85	244
	Malana HPS (IPP) (2*43)	86	14	45	0.90	37
	Other Hydro	878	379	381	8.85	369
	Total HP	1264	525	761	15.60	650
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	731	731	17.26	719
	Other Hydro/IPP	560	150	148	3.54	148
	Gas/Diesel/Others	190	0	0	0.00	0
	Total J & K	1500	881	879	20.81	867
Total State Control Area Generation		47841	15231	17750	371.48	15478
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			7313.13	3772.79	118.92	4955
Total Regional Availability(Gross)		73078	41130	33555	840.57	35024

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9676	4822	176.98	7374
State Control Area Hydro	6881	3107	3260	75	3141
Total Regional Hydro	19115	12783	8082	252.35	10515

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(HVDC B/B)	-250	-250	100	250	0.17	5.36	-5.19
765 KV Gwalior-Agra (D/C)	2997	2271	2997	0	50.04	0.00	50.04
400 KV Zerda-Kankroli	-2	-196	0	328	0.00	4.89	-4.89
400 KV Zerda-Bhinmal	29	-178	39	272	0.00	3.75	-3.75
220 KV Auraiya-Malanpur	23	41	0	25	0.00	0.46	-0.46
220 KV Badod-Kota/Morak	1	-8	81	113	0.00	1.36	-1.36
Mundra-Mohindergarh(HVDC Bipole)	1998	902	2506	0	37.53	0.00	37.53
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	301	123	632	13	6.24	0.00	6.24
Sub Total WR	5097	2705			93.98	15.82	78.16
Pusauli Bypass/HVDC	200	400	400	0	7.06	0.00	7.06
400 KV MZP- GKP (D/C)	173	74	481	0	3.91	0.00	3.91
400 KV Patna-Balia(D/C) X 2	556	460	600	0	12.27	0.00	12.27
400 KV B'Sharif-Balia (D/C)	60	-29	210	70	0.31	0.00	0.31
765 KV Gaya-Balia	205	140	271	0	1.93	0.00	1.93
765 KV Gaya-Varanasi (D/C)	215	-51	215	19	2.63	0.00	2.63
220 KV Pusauli-Sahupuri	0	190	193	0	2.77	0.00	2.77
132 KV K'nasa-Sahupuri	0	-22	0	23	0.00	0.44	-0.44
132 KV Son Ngr-Rihand	-50	-36	0	50	0.00	0.86	-0.86
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-13	-349	177	371	0.00	4.71	-4.71
400 KV Barh -GKP (D/C)	492	412	520	0	9.80	0.00	9.80
400 kV B'Sharif - Varanasi (D/C)	-122	-121	115	150	0.00	2.80	-2.80
Sub Total ER	1716	1068			40.68	8.81	31.87
+/- 800 KV BiswanathCharialli-Agra	500	0	500	0	8.89	0.00	8.89
Sub Total NER	500	0			8.89	0.00	8.89
Total IR Exch	7313	3773			143.55	24.63	118.92

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
29.12	0.90	30.02	1.27	3.53	-0.44	-0.87	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
30.85	99.86	130.71	40.76	78.16	118.92	9.91	-21.70	-11.79

V(C). Inter National Exchange with Nepal [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	
132 KV Tanakpur - Mahendarnagar	-29	-15	0	31	0	1	-0.65

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	0.00	0.20	8.37	52.03	76.41	12.51	2.74	0.00	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)		
50.18	6.03	49.78	19.54	49.99	0.039	0.061	0.00	0.00	23.59

VII. 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	416	4:01	402	15:42	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	427	4:00	397	22:09	0.0	0.0	26.1	0.0	26.1
Bareilly(PG)400kV	400	420	3:58	387	14:33	0.0	1.3	0.0	0.0	0.0
Kanpur	400	428	3:58	397	19:42	0.0	0.0	27.6	0.0	27.6
Dadri	400	424	6:00	397	15:43	0.0	0.0	13.7	0.0	13.8
Ballabgarh	400	429	4:23	398	15:43	0.0	0.0	35.7	0.0	35.7
Bawana	400	425	6:03	398	15:45	0.0	0.0	15.9	0.0	15.9
Bassi	400	428	4:00	393	15:47	0.0	0.0	22.9	0.0	22.9
Hissar	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Moga	400	419	4:30	395	15:47	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	428	6:00	404	14:25	0.0	0.0	23.7	0.0	23.7
Nalagarh	400	428	4:52	403	15:54	0.0	0.0	22.3	0.0	22.3
Kishenpur	400	418	5:01	398	19:49	0.0	0.0	0.0	0.0	0.0
Wagoora	400	416	4:17	379	19:21	1.2	19.4	0.0	0.0	1.2
Amritsar	400	430	5:07	402	15:47	0.0	0.0	20.3	0.0	20.3
Kashipur	400	420	4:22	406	14:44	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	418	3:22	400	15:55	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	414	7:50	376	11:32	1.6	30.9	0.0	0.0	1.6

VIII. 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	783	4:16	735	19:50	0.0	4.2	0.0	0.0	0.0
Balia	765	795	4:00	744	22:08	0.0	0.0	0.0	0.0	0.0
Moga	765	797	4:30	758	15:46	0.0	0.0	0.0	0.0	0.0
Agra	765	794	0:28	746	19:51	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	804	4:18	759	15:49	0.0	0.0	5.7	0.0	5.7
Unnao	765	783	4:00	729	22:08	0.0	32.7	0.0	0.0	0.0
Lucknow	765	800	4:00	745	15:52	0.0	0.0	0.0	0.0	0.0
Meerut	765	798	4:23	754	11:24	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	794	4:16	670	15:35	1.0	1.0	0.0	0.0	1.0
Bareilly 765 kV	765	793	4:00	735	15:52	0.0	8.4	0.0	0.0	0.0
Anta	765	799	2:23	752	19:45	23.8	23.8	0.0	0.0	23.8
Phagi	765	0	0:00	0	0:00	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	477.97	414.26	487.77	661.49	626.11	452.73
Pong	426.72	384.05	391.24	72.04	405.66	361.16	61.56	171.40
Tehri	829.79	740.04	742.65	12.50	752.60	67.00	158.50	141.00
Koteshwar	612.50	598.50	605.73	3.32	607.00	3.10	143.00	152.46
Chamera-I	760.00	748.75	753.20	0.00	0.00	0.00	210.32	245.50
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	504.23	2.89	521.58	10.72	86.11	123.75

* NA: Not Available

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

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (20:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	-27	377	0	-229	282	0	-1.46	9.01	7.55
Delhi	432	30	0	549	-31	0	12.93	-1.62	11.31
Haryana	262	176	0	284	229	0	7.28	5.48	12.75
HP	-544	-338	0	-340	-633	0	-9.79	-11.80	-21.59
J&K	-529	0	0	-603	-14	0	-14.57	0.04	-14.53
CHD	0	10	0	0	0	0	0.35	0.21	0.56
Rajasthan	-414	436	0	-414	434	0	-9.93	10.39	0.46
UP	900	0	0	1153	0	0	24.66	0.00	24.66
Uttarakhand	42	57	0	42	127	0	1.36	1.20	2.56
Total	122	748	0	443	394	0	10.83	12.90	23.73

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-27	-229	405	281	0	0
Delhi	638	432	240	-736	0	0
Haryana	481	238	262	172	0	0
HP	-340	-544	-243	-733	0	0
J&K	-529	-698	149	-14	0	0
CHD	44	0	30	0	0	0
Rajasthan	-414	-414	437	411	0	0
UP	1197	772	0	0	0	0
Uttarakhand	115	42	130	8	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	1.39%
ER	0.00%
Simultaneous	13.89%

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

Rihand - Dadri	0.00%
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XII. System Constraints:

XIII. Grid Disturbance / Any Other Significant Event:

XIV. Weather Conditions For 30.05.2016 :
Normal

XV. Synchronisation of new generating units :

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

XVII. Tripping of lines in pooling stations :

XVIII. 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.