



	<b>Thermal (Total)</b>	<b>6560</b>	<b>3800</b>	<b>2775</b>	77.41	<b>3226</b>
	Total Hydro	1000	930	903	21.64	902
	Wind Power	0	0	0	0.00	0
	Biomass	303	0	0	0.08	3
	Solar	859	0	0	0.07	3
	<b>Renewable(Total)</b>	<b>1162</b>	<b>0</b>	<b>0</b>	<b>0.15</b>	<b>6</b>
	<b>Total Punjab</b>	<b>8722</b>	<b>4730</b>	<b>3678</b>	<b>99.20</b>	<b>4133</b>
Haryana	Panipat TPS (2*210+2*250)	920	213	207	4.99	208
	DCRTPP (Yamuna nagar) (2*300)	600	244	432	7.94	331
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	178	184	4.27	178
	RGTPP (khedar) (IPP) (2*600)	1200	873	750	18.86	786
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	1091	754	21.45	894
	<b>Thermal (Total)</b>	<b>4497</b>	<b>2599</b>	<b>2327</b>	<b>57.50</b>	<b>2396</b>
	Total Hydro	62	0	36	0.52	22
	Wind Power	0	0	0	0.00	0
	Biomass	106	0	0	0.00	0
	Solar	50	0	0	0.00	0
	<b>Renewable(Total)</b>	<b>156</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>
	<b>Total Haryana</b>	<b>4715</b>	<b>2599</b>	<b>2363</b>	<b>58.02</b>	<b>2417</b>
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	828	794	20.11	838
	suratgarh TPS (6*250)	1500	887	891	21.57	899
	Chabra TPS (4*250)	1000	390	394	10.32	430
	Chabra TPS (1*660)	660	0	0	0.00	0
	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	170	174	4.45	185
	RAPS A (NPC) (1*100+1*200)	300	169	171	4.23	176
	Barsingar (NLC) (2*125)	250	108	103	2.42	101
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	440	521	16.14	672
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	832	893	21.36	890
	Kawai(Adani) (2*660)	1320	579	578	13.97	582
	<b>Thermal (Total)</b>	<b>9536</b>	<b>4403</b>	<b>4519</b>	<b>114.56</b>	<b>4773</b>
	Total Hydro	550	0	0	0.00	0
	Wind power	4292	1084	1049	18.66	778
	Biomass	102	24	24	0.57	24
	Solar	1995	0	0	2.63	110
	Renewable/Others (Total)	6389	1108	1073	21.86	911
	<b>Total Rajasthan</b>	<b>16475</b>	<b>5511</b>	<b>5592</b>	<b>136.42</b>	<b>5684</b>
UP	Anpara TPS (3*210+2*500)	1630	721	730	17.69	737
	Obra TPS (2*50+2*94+5*200)	1194	415	491	10.97	457
	Paricha TPS (2*110+2*220+2*250)	1160	597	597	14.23	593
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	328	378	8.20	342
	Tanda TPS (NTPC) (4*110)	440	378	392	8.84	368
	Roza TPS (IPP) (4*300)	1200	796	797	16.42	684
	Anpara-C (IPP) (2*600)	1200	1112	1046	25.22	1051
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	453	452	10.84	452
	Lalitpur TPS(3*660)	1980	1855	1116	34.87	1453
	Bara(2*660)	1320	602	602	14.46	602
	<b>Thermal (Total)</b>	<b>12449</b>	<b>7257</b>	<b>6601</b>	<b>161.73</b>	<b>6739</b>
	Vishnuparyag HPS (IPP)(4*110)	440	435	435	10.46	436
	Alaknanda(4*82.5)	330	342	340	8.22	342
	Other Hydro	527	300	300	6.00	250
	Cogeneration	981	30	30	0.72	30
	Wind Power	0	0	0	0.00	0
	Biomass	26	0	0	0.00	0
	Solar	102	0	0	0.00	0
<b>Renewable(Total)</b>	<b>128</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	
<b>Total UP</b>	<b>14855</b>	<b>8364</b>	<b>7706</b>	<b>187.13</b>	<b>7797</b>	
Uttarakhand	Other Hydro	1250	878	879	20.26	844
	Total Gas	225	281	289	6.84	285
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	100	0	0	0.66	27
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	<b>Renewable(Total)</b>	<b>407</b>	<b>0</b>	<b>0</b>	<b>0.66</b>	<b>27</b>
	<b>Total Uttarakhand</b>	<b>1882</b>	<b>1159</b>	<b>1168</b>	<b>27.76</b>	<b>1157</b>
Delhi	Raighat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	65	76	1.81	75
	Pragati Gas Turbine (2x104+ 1x122)	330	258	260	6.38	266
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	432	431	10.44	435
	Badarpur TPS (NTPC) (3*95+2*210)	705	324	324	7.09	295
	<b>Thermal (Total)</b>	<b>2917</b>	<b>1079</b>	<b>1091</b>	<b>25.72</b>	<b>1071</b>
	Wind Power	0	0	0	0.00	0
	Biomass	16	0	0	0.00	0
	Solar	2	0	0	0.00	0
<b>Renewable(Total)</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	
<b>Total Delhi</b>	<b>2935</b>	<b>1079</b>	<b>1091</b>	<b>25.72</b>	<b>1071</b>	
HP	Baspa HPS (IPP) (3*100)	300	330	330	7.91	330
	Malana HPS (IPP) (2*43)	86	96	90	1.93	81
	Other Hydro (>25MW)	372	370	295	7.69	320
	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	336	271	7.43	310
	<b>Renewable(Total)</b>	<b>486</b>	<b>336</b>	<b>271</b>	<b>7.43</b>	<b>310</b>
<b>Total HP</b>	<b>1244</b>	<b>1132</b>	<b>986</b>	<b>24.96</b>	<b>1040</b>	
J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	884	884	21.21	884
	Other Hydro/IPP(including 98 MW Small Hydro)	308	202	200	4.81	201
	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
	<b>Renewable(Total)</b>	<b>98</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>
<b>Total J &amp; K</b>	<b>1398</b>	<b>1086</b>	<b>1084</b>	<b>26</b>	<b>1084</b>	
<b>Total State Control Area Generation</b>		<b>52226</b>	<b>25660</b>	<b>23668</b>	<b>585.23</b>	<b>24384</b>
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>			<b>7285</b>	<b>8806.1</b>	<b>199.45</b>	<b>8310</b>
<b>Total Regional Availability(Gross)</b>		<b>77963</b>	<b>54173</b>	<b>49336</b>	<b>1210.00</b>	<b>50416</b>

**IV. Total Hydro Generation:**

Regional Entities Hydro	12234	12149	8668	226.42	9369
State Control Area Hydro	7243	5384	5252	110.65	5232
<b>Total Regional Hydro</b>	<b>19477</b>	<b>17533</b>	<b>13920</b>	<b>337.07</b>	<b>14601</b>

**V. Total Renewable Generation:**

Regional Entities Renewable	30	0	0	0.07	3
State Control Area Renewable	8844	1444	1344	30.10	1254
<b>Total Regional Renewable</b>	<b>8874</b>	<b>1444</b>	<b>1344</b>	<b>30.18</b>	<b>1257</b>

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

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhyachal(HVDC B/B)	-150	-500	150	500	1.00	4.83	-3.84
765 KV Gwalior-Agra (D/C)	1890	2578	2620	0	52.93	0.00	52.93
400 KV Zerda-Kankroli	-113	27	110	115	0.00	0.14	-0.14
400 KV Zerda-Bhinmal	21	137	163	110	0.77	0.00	0.77
220 KV Auraiya-Malanpur	-61	-68	0	70	0.00	0.79	-0.79
220 KV Badod-Kota/Morak	-46	78	78	90	0.16	0.00	0.16
Mundra-Mohindergarh(HVDC Bipole)	2002	1998	2204	0	49.30	0.00	49.30
400 KV RAPP- Sujalpur	47	270	270	0	2.47	0.00	2.47
400 KV Vindhyachal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	671	576	1056	0	20.62	0.00	20.62
+/- 800 kV HVDC Champa-Kurushetra	1500	1500	1500	0	20.76	0	20.76
<b>Sub Total WR</b>	<b>5761</b>	<b>6596</b>			<b>147.99</b>	<b>5.76</b>	<b>142.23</b>
400 kV Sasaram - Varanasi	175	156	175	0	3.86	0.00	3.86
400 kV Sasaram - Allahabad	12	34	61	0	0.79	0.00	0.79
400 KV MZP- GKP (D/C)	251	411	677	0	11.11	0.00	11.11
400 KV Patna-Balia(D/C) X 2	640	813	998	0	20.26	0.00	20.26
400 KV B Sharif-Balia (D/C)	114	165	292	0	4.65	0.00	4.65
765 KV Gaya-Balia	224	293	323	0	5.83	0.00	5.83
765 KV Gaya-Varanasi (D/C)	126	271	487	0	6.35	0.00	6.35
220 KV Pusauli-Sahupuri	121	109	21	0	2.20	0.00	2.20
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-30	-28	0	33	0.00	0.68	-0.68
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-203	-170	59	207	0.00	1.72	-1.72
400 KV Barh -GKP (D/C)	-150	-166	0	180	0.00	3.22	-3.22
400 kV B Sharif - Varanasi (D/C)	94	22	122	140	0.00	0.61	-0.61
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
<b>Sub Total ER</b>	<b>1374</b>	<b>1910</b>			<b>55.05</b>	<b>6.23</b>	<b>48.82</b>
+/- 800 KV HVDC BiswanathChariali-Agra	150	300	500	0.00	8.40	0.00	8.40
<b>Sub Total NER</b>	<b>150</b>	<b>300</b>			<b>8.40</b>	<b>0.00</b>	<b>8.40</b>
<b>Total IR Exch</b>	<b>7285</b>	<b>8806</b>			<b>211.44</b>	<b>11.99</b>	<b>199.45</b>

**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
41.63	3.69	45.32	19.64	13.48	-8.48	6.50	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
56.48	147.88	204.36	57.22	142.23	199.45	0.74	-5.65	-4.91

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

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-27	-22	0	27	0	1	-0.51

**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	0.00	3.26	48.70	82.81	12.12	1.88	0.00	0.00

Frequency (Hz)				Average Frequency	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	Hz	Index				
50.16	18.02	49.82	20.29	50.00	0.026	0.051	50.10	49.91	17.19

**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	406	1:11	402	5:06	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	416	5:37	394	19:11	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	416	7:06	394	19:12	0.0	0.0	0.0	0.0	0.0
Kanpur	400	419	7:02	401	19:13	0.0	0.0	0.0	0.0	0.0
Dadri	400	414	2:59	398	14:22	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	417	7:01	397	14:27	0.0	0.0	0.0	0.0	0.0
Bawana	400	412	6:07	395	23:07	0.0	0.0	0.0	0.0	0.0
Bassi	400	421	18:03	400	23:09	0.0	0.0	0.3	0.0	0.3
Hissar	400	412	6:07	395	23:08	0.0	0.0	0.0	0.0	0.0
Moga	400	412	6:54	397	19:46	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	415	6:08	397	19:52	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	416	5:57	402	19:36	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	414	3:17	402	19:36	0.0	0.0	0.0	0.0	0.0
Wagoora	400	409	2:57	389	7:07	0.0	0.3	0.0	0.0	0.0
Amritsar	400	415	6:00	399	19:43	0.0	0.0	0.0	0.0	0.0
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	404	0:00	404	0:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	417	5:36	398	14:21	0.0	0.0	0.0	0.0	0.0

**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	787	6:02	755	23:08	0.0	0.0	0.0	0.0	0.0
Balia	765	792	7:09	757	19:14	0.0	0.0	0.0	0.0	0.0
Moga	765	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Agra	765	794	8:00	760	23:07	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	796	3:02	768	23:15	0.0	0.0	0.0	0.0	0.0

Unnao	765	781	7:09	747	19:13	0.0	0.0	0.0	0.0
Lucknow	765	800	7:06	753	19:14	0.0	0.0	0.0	0.0
Meerut	765	804	8:30	767	23:08	0.0	0.0	6.7	6.7
Jhatikara	765	798	7:03	762	23:08	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	800	2:59	756	19:10	0.0	0.0	0.0	0.0
Anta	765	790	18:03	767	23:09	0.0	0.0	0.0	0.0
Phagi	765	794	18:19	766	23:16	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 <sup>3</sup> /s)	Usage (m <sup>3</sup> /s)
Bhakra	513.59	445.62	507.84	1440.82	498.95	153.16	1201.40	617.25
Pong	426.72	384.05	420.52	916.71	415.32	693.24	913.90	388.96
Tehri	829.79	740.04	812.60	854.27	814.35	889.26	422.45	232.00
Koteshwar	612.50	598.50	610.92	5.00	610.20	4.66	232.00	257.15
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	242.93	234.14
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	521.67	10.33	519.85	3.46	233.24	413.69

\* 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	1688	-101	0	1328	-202	0	38.89	-5.02	33.87
Delhi	599	-79	0	672	-262	0	17.34	-3.11	14.22
Haryana	1322	162	0	1145	17	0	24.60	2.88	27.48
HP	-1296	-289	0	-1337	-351	0	-28.99	-7.13	-36.12
J&K	-741	-493	0	-741	-86	0	-17.77	-4.52	-22.29
CHD	0	-10	0	0	-40	0	0.00	-0.25	-0.25
Rajasthan	-59	174	0	-261	44	0	-2.95	1.66	-1.29
UP	1110	1193	0	1555	-69	0	15.10	24.60	39.70
Uttarakhand	-211	38	0	-284	48	0	-5.53	0.52	-5.01
Total	2412	595	0	2076	-901	0	40.67	9.64	50.31

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1720	1328	-101	-605	0	0
Delhi	1143	515	105	-364	0	0
Haryana	1322	886	190	16	0	0
HP	-1055	-1565	-201	-392	0	0
J&K	-741	-741	-5	-498	0	0
CHD	0	0	39	-40	0	0
Rajasthan	-51	-464	185	-1044	0	0
UP	1603	82	1782	-69	0	0
Uttarakhand	-195	-284	108	-58	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	0	10
Haryana	2	24
Rajasthan	3	35
Delhi	3	25
UP	0	11
Uttarakhand	1	13
HP	4	25
J & K	2	13
Chandigarh	4	32

**XIII. System Constraints:**

**XIV. Grid Disturbance / Any Other Significant Event:**

**XV. Weather Conditions For 24.08.2017 :**

**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 : 24.08.2017**

**पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**