

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GO118682

Power Supply Position in Northern Region for 29.05.2018

Date of Reporting : 30.05.2018



I. Regional Availability/Demand:

Evening Peak (20:00 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
51455	426	51881	49.90	54556	712	55267	50.04	1258.23	10.87

\* 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:

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	Gas/Naphtha/Diesel	Solar	Wind	Other (Biomass/Small hydro/Co-Generation etc.)	Total					
Punjab	102.98	10.82	0.00	4.16	0.00	2.66	120.61	69.10	68.56	-0.54	189.17	0.00
Haryana	80.16	0.38	0.00	0.07	0.00	0.92	81.53	97.07	99.35	2.28	180.87	1.72
Rajasthan	117.97	0.01	3.69	12.05	27.25	4.55	165.51	72.76	77.04	4.28	242.56	0.00
Delhi	6.99	0.00	24.81	0.00	0.00	0.00	31.80	95.97	96.58	0.61	128.38	0.09
UP	192.67	11.80	0.00	3.00	0.00	12.00	219.47	184.09	184.07	-0.02	403.54	0.00
Uttarakhand	0.00	13.81	6.07	0.63	0.00	0.00	20.51	19.75	21.63	1.88	42.14	0.00
HP	0.00	11.51	0.00	0.00	0.00	3.54	15.05	9.97	12.17	2.20	27.22	0.32
J & K	0.00	18.94	0.00	0.00	0.00	0.00	18.94	23.55	18.96	-4.59	37.90	8.74
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.85	6.45	0.60	6.45	0.00
<b>Total</b>	<b>500.76</b>	<b>67.27</b>	<b>34.57</b>	<b>19.90</b>	<b>27.25</b>	<b>23.67</b>	<b>673.42</b>	<b>578.11</b>	<b>584.81</b>	<b>6.70</b>	<b>1258.23</b>	<b>10.87</b>

\* Shortage furnished by the respective constituent & others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

State	Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Maximum Demand Met (MW) and Time(Hrs)	Shortage (MW)
	Demand Met	Shortage	UI	STOAPX transaction	Demand Met	Shortage	UI	STOAPX transaction		
Punjab	6969	0	-235	-433	7624	0	-131	8395	23	0
Haryana	7918	0	393	331	8112	63	852	429	8112	3
Rajasthan	8559	0	-205	-90	10153	0	-107	-40	11120	8
Delhi	5191	0	23	117	5523	0	183	341	6254	24
UP	18419	0	-611	2208	18243	340	-735	2870	18419	20
Uttarakhand	1436	35	-327	251	1862	0	461	406	1945	12
HP	1136	0	67	-1000	1058	0	195	-568	1376	10
J&K	1563	391	-526	-385	1751	309	-24	131	1751	3
Chandigarh	264	0	-25	-20	229	0	34	30	360	15
<b>Total</b>	<b>51455</b>	<b>426</b>	<b>-1445</b>	<b>980</b>	<b>54556</b>	<b>712</b>	<b>840</b>	<b>3469</b>	<b>55604</b>	<b>1</b>

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

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
<b>A. NTPC</b>									
Singrauli STPS (6*200+2*500)	2000	1643	1797	1792	39.87	1661	39.37	0.50	
Rihand I STPS (2*500)	1000	923	950	1000	21.99	916	22.07	-0.08	
Rihand II STPS (2*500)	1000	471	496	496	11.01	459	11.29	-0.28	
Rihand III STPS (2*500)	1000	943	986	1007	22.45	935	22.47	-0.02	
Dadri I STPS (4*210)	840	769	718	726	15.82	659	16.63	-0.81	
Dadri II STPS (2*490)	980	929	856	909	21.05	877	21.28	-0.23	
Unchahar I TPS (2*210)	420	382	399	386	8.49	354	9.01	-0.52	
Unchahar II TPS (2*210)	420	382	370	370	8.55	356	9.01	-0.46	
Unchahar III TPS (1*210)	210	191	161	161	4.18	174	4.48	-0.30	
Unchahar IV TPS(1*500)	500	0	0	0	0.00	0	0.00	0.00	
ISTPP (Jhajjar) (3*500)	1500	815	940	848	18.44	769	18.92	-0.48	
Dadri GPS (4*130.19+2*154.51)	830	0	230	249	5.50	229	6.39	-0.89	
Anta GPS (3*88.71+1*153.2)	419	0	0	0	0.00	0	0.00	0.00	
Auraya GPS (4*111.19+2*109.30)	663	0	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	0.05	2	0.05	0.00	
Singrauli Solar(15)	15	3	0	0	0.07	3	0.05	0.02	
KHEP(4*200)	800	869	0	0	0.00	0	0.63	-0.63	
<b>Sub Total (A)</b>	<b>12612</b>	<b>8321</b>	<b>7903</b>	<b>7944</b>	<b>178</b>	<b>7396</b>	<b>182</b>	<b>-4.17</b>	
<b>B. NPC</b>									
NAPS (2*220)	440	370	365	392	8.17	341	8.89	-0.72	
RAPS- B (2*220)	440	356	389	401	8.48	353	8.54	-0.06	
RAPS- C (2*220)	440	410	453	454	9.74	406	9.78	-0.04	
<b>Sub Total (B)</b>	<b>1320</b>	<b>1136</b>	<b>1207</b>	<b>1247</b>	<b>26.39</b>	<b>1100</b>	<b>27.21</b>	<b>-0.82</b>	
<b>C. NHPC</b>									
Chamera I HPS (3*180)	540	534	544	360	6.20	258	6.00	0.20	
Chamera II HPS (3*100)	300	296	297	297	5.83	243	5.80	0.03	
Chamera III HPS (3*77)	231	229	235	160	4.15	173	4.06	0.09	
Bairasul HPS(3*60)	180	62	121	58	1.52	63	1.40	0.12	
Salaj-HPS (6*115)	690	442	415	505	11.15	465	10.61	0.54	
Tanakpur-HPS (3*31.4)	94	36	58	42	0.99	41	0.85	0.14	
Uri-I HPS (4*120)	480	475	487	479	11.67	486	11.40	0.27	
Uri-II HPS (4*60)	240	47	0	183	1.20	50	1.12	0.08	
Dhauliganga-HPS (4*70)	280	277	286	73	3.13	131	3.04	0.09	
Dulhasti-HPS (3*130)	390	387	408	408	9.33	389	9.28	0.05	
Sewa-II HPS (3*40)	120	119	0	0	0.37	15	0.50	-0.13	
Parbati 3 (4*130)	520	60	0	0	0.00	0	1.43	-1.43	
Kishanganga(3*110)	330	0	516	0	1.47	61	4.81	-3.34	
<b>Sub Total (C)</b>	<b>4395</b>	<b>2961</b>	<b>3368</b>	<b>2565</b>	<b>57</b>	<b>2375</b>	<b>60</b>	<b>-3.30</b>	
<b>D.SJVNL</b>									
NJPC (6*250)	1500	1497	1622	634	20.90	871	20.33	0.57	
Rampur HEP (6*68.67)	412	412	444	223	5.94	248	5.65	0.29	
<b>Sub Total (D)</b>	<b>1912</b>	<b>1910</b>	<b>2066</b>	<b>857</b>	<b>26.84</b>	<b>1118</b>	<b>25.98</b>	<b>0.86</b>	
<b>E. THDC</b>									
Tehri HPS (4*250)	1000	520	397	0	3.54	148	3.58	-0.04	
Koteswar HPS (4*100)	400	86	198	72	2.02	84	2.04	-0.02	
<b>Sub Total (E)</b>	<b>1400</b>	<b>606</b>	<b>595</b>	<b>72</b>	<b>5.56</b>	<b>232</b>	<b>5.62</b>	<b>-0.06</b>	
<b>F. BBMB</b>									
Bhakra HPS (2*108+3*126+5*157)	1379	593	960	437	14.33	597	14.22	0.11	
Dehar HPS (6*165)	990	388	825	330	9.44	393	9.31	0.13	
Pong HPS (6*68)	386	66	150	50	1.62	67	1.58	0.04	
<b>Sub Total (F)</b>	<b>2765</b>	<b>1047</b>	<b>1935</b>	<b>817</b>	<b>25.39</b>	<b>1058</b>	<b>25.11</b>	<b>0.28</b>	
<b>G. IPP(s)/JV(s)</b>									
Allain DuhanganHPS(IPP) (2*96)	192	0	57	54	1.68	70	1.54	0.14	
Karcharm Wangtoo HPS(IPP) (4*250)	1000	0	1004	0	11.23	468	10.93	0.30	
Malana Sta-II HPS (2*50)	100	0	60	90	0.98	41	0.91	0.06	
Shree Cement TPS (2*150)	300	0	255	255	6.07	253	6.16	-0.09	
Budhil HPS(IPP) (2*35)	70	0	35	64	0.91	38	1.37	-0.46	
Sani HPS (IPP) (2*50)	100	0	0	0	0.00	1	1.19		
<b>Sub Total (G)</b>	<b>1762</b>	<b>0</b>	<b>1412</b>	<b>464</b>	<b>20.86</b>	<b>869</b>	<b>20.91</b>	<b>-0.05</b>	
<b>H. Total Regional Entities (A-G)</b>	<b>26167</b>	<b>15981</b>	<b>18486</b>	<b>13966</b>	<b>339.55</b>	<b>14148</b>	<b>346.80</b>	<b>-7.25</b>	

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	740	740	16.39	683	
	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	751	799	18.19	758	
	Goindwal(GVK) (2*270)	540	290	290	8.28	345	
	Rajpura (2*700)	1400	920	1320	30.14	1256	
	Talwandi Saboo (3*660)	1980	924	1300	30.01	1250	
	<b>Thermal (Total)</b>	<b>6560</b>	<b>3625</b>	<b>4449</b>	<b>102.98</b>	<b>4291</b>	
	Total Hydro	1000	403	431	10.82	451	
	Wind Power	0	0	0	0.00	0	
	Biomass	303	0	0	2.66	111	
	Solar	859	0	0	4.16	173	
	<b>Renewable(Total)</b>	<b>1162</b>	<b>0</b>	<b>0</b>	<b>6.81</b>	<b>284</b>	
	<b>Total Punjab</b>	<b>8722</b>	<b>4028</b>	<b>4880</b>	<b>120.61</b>	<b>5025</b>	
	Haryana	Panipat TPS (2*210+2*250)	920	582	623	14.35	598
		DCRTPP (Yamuna nagar) (2*300)	600	480	549	12.39	516
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0	
RGTPP (kherda) (IPP) (2*600)		1200	787	1110	24.19	1008	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	1168	1230	29.22	1218	
<b>Thermal (Total)</b>		<b>4497</b>	<b>3017</b>	<b>3512</b>	<b>80.16</b>	<b>3340</b>	
Total Hydro		62	9	15	0.38	16	
Wind Power		0	0	0	0.00	0	
Biomass		106	0	0	0.92	38	
Solar		50	0	0	0.07	3	
<b>Renewable(Total)</b>		<b>156</b>	<b>0</b>	<b>0</b>	<b>0.99</b>	<b>41</b>	
<b>Total Haryana</b>		<b>4715</b>	<b>3026</b>	<b>3527</b>	<b>81.53</b>	<b>3397</b>	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	1146	966	22.49	937
		suratgarh TPS (6*250)	1500	1270	1307	30.86	1286
	Chabra TPS (4*250)	1000	851	694	16.46	686	
	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	142	174	3.69	154	
	RAPS A (NPC) (1*100+1*200)	300	179	170	3.95	165	
	Barsingsar (NLC) (2*125)	250	108	227	5.24	218	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	730	726	19.46	811	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	556	555	13.05	544	
	Kawai(Adani) (2*660)	1320	619	441	10.42	434	
	<b>Thermal (Total)</b>	<b>9536</b>	<b>5601</b>	<b>5260</b>	<b>125.61</b>	<b>5234</b>	
	Total Hydro	550	0	0	0.01	0	
	Wind power	4292	86	2046	27.25	1135	
	Biomass	102	25	25	0.60	25	
	Solar	1995	338	0	12.05	502	
	Renewable/Others (Total)	6389	449	2071	39.90	1662	
	<b>Total Rajasthan</b>	<b>16475</b>	<b>6050</b>	<b>7331</b>	<b>165.51</b>	<b>6896</b>	
	UP	Anpara TPS (3*210+2*500)	1630	1307	1312	32.70	1363
		Obra TPS (2*50+2*94+5*200)	1194	328	122	6.30	263
		Panicha TPS (2*110+2*220+2*250)	1160	882	870	17.10	713
		Panki TPS (2*105)	210	0	0	0.00	0
		Harduaganj TPS (1*60+1*105+2*250)	665	547	545	11.80	492
Tanda TPS (NTPC) (4*110)		440	376	392	7.57	315	
Roza TPS (IPP) (4*300)		1200	855	860	18.50	771	
Anpara-C (IPP) (2*600)		1200	1092	1073	26.00	1083	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	312	401	6.80	283	
Anpara-D(2*500)		1000	900	909	21.60	900	
Lalitpur TPS(3*660)		1980	1065	1231	22.20	925	
Bara(3*660)		1980	1109	1119	22.10	921	
<b>Thermal (Total)</b>		<b>13109</b>	<b>8773</b>	<b>8834</b>	<b>192.67</b>	<b>8028</b>	
Vishnupurayag HPS (IPP)(4*110)		440	395	375	8.20	342	
Alakananada(4*82.5)		330	82	82	2.60	108	
Other Hydro		527	95	10	1.00	42	
Cogeneration		1360	500	500	12.00	500	
Wind Power		0	0	0	0.00	0	
Biomass		26	0	0	0.00	0	
Solar		472	0	0	3.00	125	
<b>Renewable(Total)</b>	<b>498</b>	<b>0</b>	<b>0</b>	<b>3.00</b>	<b>125</b>		
<b>Total UP</b>	<b>16264</b>	<b>9845</b>	<b>9801</b>	<b>219.47</b>	<b>9145</b>		
Uttarakhand	Other Hydro	1250	547	433	13.81	576	
	Total Gas	450	282	276	6.07	253	
	Wind Power	0	0	0	0.00	0	
	Biomass	127	0	0	0.00	0	
	Solar	100	0	0	0.63	26	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	<b>Renewable(Total)</b>	<b>407</b>	<b>0</b>	<b>0</b>	<b>0.63</b>	<b>26</b>	
	<b>Total Uttarakhand</b>	<b>2107</b>	<b>829</b>	<b>709</b>	<b>20.51</b>	<b>855</b>	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	119	79	2.34	97	
	Pragati Gas Turbine (2x104+ 1x122)	330	273	269	6.76	282	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	603	606	15.71	655	
	Badarpur TPS (NTPC) (3*95+2*210)	705	309	307	6.99	291	
	<b>Thermal (Total)</b>	<b>2917</b>	<b>1304</b>	<b>1261</b>	<b>31.80</b>	<b>1325</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>1304</b>	<b>1261</b>	<b>31.80</b>	<b>1325</b>		

HP	Baspa HPS (IPP) (3*100)	300	120	298	4.28	178	
	Malana HPS (IPP) (2*43)	86	31	47	0.83	35	
	Other Hydro (>25MW)	372	322	320	6.41	267	
	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	180	143	3.54	147	
	Renewable(Total)	486	180	143	3.54	147	
	Total HP	1244	653	807	15.05	627	
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	590	590	15.46	644
		Other Hydro/IPP(Including 98 MW Small Hydro)	308	155	132	3.49	145
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	745	722	18.94	789	
<b>Total State Control Area Generation</b>		<b>53860</b>	<b>26480</b>	<b>29038</b>	<b>673.42</b>	<b>28059</b>	
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>		<b>8661</b>	<b>9857</b>	<b>261.46</b>	<b>10894</b>	<b>53101</b>	
<b>Total Regional Availability(Gross)</b>		<b>80027</b>	<b>53626</b>	<b>52861</b>	<b>1274.43</b>	<b>53101</b>	

**IV. Total Hydro Generation:**

Regional Entities Hydro	12564	9085	4455	129.58	5361
State Control Area Hydro	7468	3211	3151	67.27	3229
<b>Total Regional Hydro</b>	<b>20032</b>	<b>12296</b>	<b>7606</b>	<b>196.85</b>	<b>8591</b>

**V. Total Renewable Generation:**

Regional Entities Renewable	30	0	0	0.15	6
State Control Area Renewable	9214	629	2214	54.87	2286
<b>Total Regional Renewable</b>	<b>9244</b>	<b>629</b>	<b>2214</b>	<b>55.01</b>	<b>2292</b>

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

Element	Peak(20:00 Hrs) MW	Diff Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-250	-250	0	250	0.00	6.05	-6.05
765 KV Gwalior-Agra (D/C)	977	982	982	0	28.91	0.00	28.91
400 KV Zerda-Kankroli	-187	-191	0	285	0.00	4.38	-4.38
400 KV Zerda-Bhinmal	-144	-168	43	260	0.00	3.20	-3.20
220 KV Auraiya-Malanpur	19	66	0	10	0.92	0.00	0.92
220 KV Badod-Kota/Morak	-56	51	104	-57	0.49	0.00	0.49
Mundra-Mohindergarh(HVDC Bipole)	1302	1298	1304	0	31.48	0.00	31.48
400 KV RAPPC-Sujalpur	83	146	308	0	3.44	0.00	3.44
400 KV Vindhychal-Rihand	939	959	0	480	0.00	22.59	-22.59
765 KV Phagt-Gwalior (D/C)	1549	1426	1638	0	31.37	0.00	31.37
+/- 800 KV HVDC Champa-Kurushetra	2300	2300	2300	0	52.15	0	52.15
765KV Orai-Jabalpur	0	0	0	0	24.72	0	24.72
765KV Orai-Satna	0	0	0	0	41.31	0	41.31
765KV Orai-Gwalior	0	0	0	0	0.00	3	-3.02
<b>Sub Total WR</b>	<b>6532</b>	<b>6619</b>			<b>214.81</b>	<b>39.23</b>	<b>175.57</b>
400 kV Sasaram - Varanasi	-8	57	-8	77	0.00	1.91	-1.91
400 kV Sasaram - Allahabad	-100	-35	0	99	0.00	1.02	-1.02
400 KV MZP- GKP (D/C)	44	614	654	0	10.33	0.00	10.33
400 KV Patna-Balia(D/C) X 2	309	756	0	1045	17.88	0.00	17.88
400 KV B Sharif-Balia (D/C)	287	510	0	540	10.16	0.00	10.16
765 KV Gaya-Balia	434	576	0	622	12.29	0.00	12.29
765 KV Gaya-Varanasi (D/C)	-97	-285	-323	0	5.60	0.00	5.60
220 KV Pusaui-Sahupuri	177	180	194	0	4.05	0.00	4.05
132 KV Knasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	0	0	0	0	0.00	0.04	-0.04
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-184	34	133	184	1.74	0.72	1.03
400 KV Mothari -GKP (D/C)	141	144	254	0	3.21	0.00	3.21
400 kV B Sharif - Varanasi (D/C)	126	-113	-235	132	2.40	0.00	2.40
+/- 800 KV HVDC Alipurduar-Agra	500	300	500	0	10.65	0.00	10.65
<b>Sub Total ER</b>	<b>1629</b>	<b>2738</b>			<b>78.31</b>	<b>3.69</b>	<b>74.62</b>
+/- 800 KV HVDC Biswanath Chariali-Agra	500	500	500	0.00	11.27	0.00	11.27
<b>Sub Total NER</b>	<b>500</b>	<b>500</b>			<b>11.27</b>	<b>0.00</b>	<b>11.27</b>
<b>Total IR Exch</b>	<b>8661</b>	<b>9857</b>			<b>304.38</b>	<b>42.92</b>	<b>261.46</b>

**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
58.42	1.33	59.75	27.00	5.25	-2.40	7.71	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
83.02	160.04	243.06	85.89	175.57	261.46	2.87	15.53	18.40

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

Element	Peak(20:00 Hrs) MW	Diff Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-10	-18	0	28	0	0	-0.30

**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	0.40	4.80	58.30	87.30	7.70	0.60	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	MIN	
Freq	Time	Freq	Time	Hz	Index	Std. Dev.	(Hz)	(Hz)	(%)
50.12	7.48	49.76	22.21	49.98	0.029	0.051	50.05	49.76	12.70

## 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	404	4:00	398	17:31	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	426	7:01	388	19:36	0.0	0.6	6.3	0.0	6.3
Bareilly(PG)400kV	400	414	7:03	393	14:54	0.0	0.0	0.0	0.0	0.0
Kanpur	400	418	7:43	398	13:50	0.0	0.0	0.0	0.0	0.0
Dadri	400	411	7:02	393	14:44	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	413	7:00	392	14:47	0.0	0.0	0.0	0.0	0.0
Bawana	400	410	7:02	392	15:39	0.0	0.0	0.0	0.0	0.0
Bassi	400	411	18:25	390	22:21	0.0	0.0	0.0	0.0	0.0
Hissar	400	405	5:07	394	14:40	0.0	0.0	0.0	0.0	0.0
Moga	400	406	6:00	395	14:45	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	412	5:04	394	14:45	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	414	5:07	395	15:58	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	410	6:01	405	0:01	0.0	0.0	0.0	0.0	0.0
Wagooora	400	407	15:43	396	19:22	0.0	0.0	0.0	0.0	0.0
Amritsar	400	409	4:08	395	14:29	0.0	0.0	0.0	0.0	0.0
Kashipur	400	402	0:00	402	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	405	4:48	390	14:46	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	411	7:02	384	14:42	0.0	10.0	0.0	0.0	0.0

## 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	791	7:04	739	13:54	0.0	1.3	0.0	0.0	0.0
Balia	765	804	7:04	749	19:36	0.0	0.0	1.7	0.0	1.7
Moga	765	782	6:01	757	14:42	0.0	0.0	0.0	0.0	0.0
Agra	765	788	7:05	751	15:15	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	790	5:03	764	14:43	0.0	0.0	0.0	0.0	0.0
Unnao	765	777	7:43	742	13:51	0.0	0.0	0.0	0.0	0.0
Lucknow	765	806	7:03	756	13:51	0.0	0.0	5.7	0.0	5.7
Meerut	765	794	5:45	758	14:47	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	791	7:03	751	14:49	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	802	7:02	759	14:49	0.0	0.0	1.5	0.0	1.5
Anta	765	789	19:09	766	22:30	0.0	0.0	0.0	0.0	0.0
Phagi	765	791	18:35	766	22:16	0.0	0.0	0.0	0.0	0.0

Note: '0' in Max / Min Col -&gt; 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	455.00	80.53	472.41	308.66	414.39	545.16
Pong	426.72	384.05	392.06	80.40	394.53	116.59	26.33	136.18
Tehri	829.79	740.04	743.55	16.85	744.95	23.73	141.36	128.00
Koteswar	612.50	598.50	610.55	4.95	609.08	4.21	128.00	133.10
Chamera-I	760.00	748.75	753.35	0.00	0.00	0.00	164.59	168.99
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 Saagar	298.70	295.78	0.00	0.00	0.00	0.00	0.00	0.00
RSD	527.91	487.91	498.95	3.12	513.76	5.29	181.29	138.45

\* 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	121	-252	0	121	-554	0	2.90	-7.15	-4.25
Delhi	638	-297	0	537	-420	0	15.00	-7.43	7.57
Haryana	405	24	0	309	22	0	4.49	0.62	5.11
HP	-507	-61	0	-611	-389	0	-10.38	-2.14	-12.52
J&K	-754	885	0	-754	369	0	-18.12	12.17	-5.95
CHD	0	30	0	0	-20	0	0.00	0.82	0.82
Rajasthan	-8	-32	0	-8	-82	0	-0.20	7.15	6.95
UP	1844	1026	0	1388	821	0	41.83	5.10	46.93
Uttarakhand	64	343	0	59	192	0	1.27	6.96	6.96
<b>Total</b>	<b>1803</b>	<b>1666</b>	<b>0</b>	<b>1040</b>	<b>-60</b>	<b>0</b>	<b>36.79</b>	<b>14.83</b>	<b>51.62</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	121	121	-252	-554	0	0
Delhi	775	537	142	-898	0	0
Haryana	569	-212	32	22	0	0
HP	-161	-712	358	-503	0	0
J&K	-754	-766	885	270	0	0
CHD	0	0	89	-25	0	0
Rajasthan	-8	-8	1382	-89	0	0
UP	1882	1359	1490	-507	0	0
Uttarakhand	64	34	343	28	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	2.43%

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

WR	9.03%
ER	6.25%
Simultaneous	18.40%

(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	8
Haryana	2	20
Rajasthan	2	25
Delhi	2	18
UP	1	14
Uttarakhand	3	30
HP	6	23
J & K	3	29
Chandigarh	7	96

**XIII. System Constraints:**

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

**XV. Weather Conditions For 29.05.2018 :**

**XVI. Synchronisation of new generating units :**

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

1.First time Charged 315MVA ICT-2 at Obra(UP) on No Load at 19:16

0.00  
0.00

**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 : 29.05.2018

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER