



**National Load Despatch Centre**  
**राष्ट्रीय भार प्रेषण केंद्र**  
**POWER SYSTEM OPERATION CORPORATION LIMITED**  
**पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड**  
(Government of India Enterprise/ भारत सरकार का उद्यम)  
**B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016**  
**बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराय, न्यू दिल्ली-110016**

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 19<sup>th</sup> July 2018

To,

1. महाप्रबंधक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
General Manager, ERLDC, 14 Golf Club Road, Tolleygunge, Kolkata, 700033
2. महाप्रबंधक, ऊ.क्षे.भा.प्रे.के., 18/ ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016  
General Manager, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi - 110016
3. महाप्रबंधक, प.क्षे.भा.प्रे.के., एफ3-, एम आई डी सी क्षेत्र, अंधेरी, मुंबई - 400093  
General Manager, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
4. महाप्रबंधक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
General Manager, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. अपर महाप्रबंधक, द.क्षे.भा.प्रे.के., 29, रेस कोर्स क्रॉस रोड, बंगलुरु - 560009  
Additional General Manager, SRLDC, 29, Race Course Cross Road, Bangalore-560009

**Sub: Daily PSP Report for the date 18.07.2018.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18 जुलाई 2018 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उपलब्ध है।

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 18<sup>th</sup> July 2018, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड  
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day

Date of Reporting

19-Jul-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs: from RLDCs)	53510	41704	40110	21068	2694	159086
Peak Shortage (MW)	1068	153	0	300	202	1723
Energy Met (MU)	1277	937	888	454	54	3609
Hydro Gen (MU)	322	17	96	105	24	565
Wind Gen (MU)	3	98	231	-----	-----	332
Solar Gen (MU)*	13.84	10.56	48.13	0.61	0.02	73
Energy Shortage (MU)	12.4	0.2	0.0	0.9	1.4	14.9
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	56622 00:18	42969 19:53	41215 19:25	22232 20:22	2673 18:49	162908 19:59

B. Frequency Profile (%)

Region	FVI	<49.7	49.7-49.8	49.8-49.9	<49.9	49.9-50.05	> 50.05
All India	0.069	0.86	2.20	15.38	18.44	75.79	5.78

C. Power Supply Position in States

Region	States	Max. Demand Met during the day (MW)	Shortage during maximum Demand (MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)	
NR	Punjab	10409	0	227.7	136.4	-1.3	147	0.0	
	Haryana	8837	0	192.2	147.5	-0.6	165	0.0	
	Rajasthan	8363	0	186.3	74.5	-0.6	393	0.0	
	Delhi	6270	0	127.9	102.5	-1.7	128	0.0	
	UP	19353	360	425.4	206.4	-0.1	338	0.0	
	Uttarakhand	2143	0	42.7	27.3	1.3	386	2.8	
	HP	1417	0	28.6	-0.4	4.3	314	0.0	
	J&K	2004	501	40.4	19.4	-4.6	148	9.6	
	Chandigarh	280	0	5.4	6.2	-0.8	13	0.0	
	WR	Chhattisgarh	3451	0	76.8	10.6	-1.6	217	0.2
Gujarat		12291	0	266.5	81.5	4.8	702	0.0	
MP		7245	0	159.5	78.7	-1.9	425	0.0	
Maharashtra		17850	0	389.2	92.6	-1.0	539	0.0	
Goa		351	0	9.5	8.7	0.1	73	0.0	
DD		333	0	7.4	6.1	1.3	109	0.0	
DNH		764	0	17.9	16.8	1.1	119	0.0	
Essar steel		478	0	10.0	9.6	0.4	255	0.0	
SR		Andhra Pradesh	7451	0	165.7	21.3	2.5	392	0.0
		Telangana	8134	0	166.8	76.3	-1.0	490	0.0
	Karnataka	8141	0	169.4	40.5	-0.2	413	0.0	
	Kerala	2972	0	58.3	27.1	1.0	309	0.0	
	Tamil Nadu	14717	0	320.0	102.8	-1.9	449	0.0	
	Pondy	382	0	8.1	7.8	0.3	115	0.0	
ER	Bihar	5034	0	96.2	90.9	2.9	400	0.0	
	DVC	3269	0	68.8	-26.6	-0.3	250	0.0	
	Jharkhand	1129	0	24.0	18.6	0.5	120	0.0	
	Odisha	4366	0	86.3	36.4	4.8	600	0.9	
	West Bengal	8858	0	177.4	52.5	5.3	550	0.0	
	Sikkim	89	0	1.2	1.3	-0.1	8	0.0	
NER	Arunachal Pradesh	115	3	2.3	2.2	0.1	11	0.0	
	Assam	1684	170	33.4	27.7	0.8	114	1.3	
	Manipur	155	2	2.4	2.3	0.2	10	0.0	
	Meghalaya	321	0	6.4	0.7	0.0	35	0.0	
	Mizoram	91	2	1.5	0.6	0.2	12	0.0	
	Nagaland	115	1	2.2	1.8	0.0	16	0.0	
	Tripura	291	9	5.3	4.0	-0.1	18	0.0	

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh
Actual(MU)	32.4	-6.8	-14.2
Day peak (MW)	1420.2	-418.0	-613.5

E. Import/export By Regions(in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	316.2	-287.7	19.9	-48.2	-0.1	0.1
Actual(MU)	308.0	-289.8	10.5	-34.0	-1.7	-6.9
O/D/U/D(MU)	-8.2	-2.0	-9.4	14.2	-1.6	-7.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4354	13284	9262	1880	77	28857
State Sector	8315	18131	11723	5705	50	43924
Total	12669	31415	20985	7585	127	72780

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	590	1038	408	402	9	2447
Hydro	322	18	98	105	24	567
Nuclear	27	29	45	0	0	101
Gas, Naptha & Diesel	26	44	23	0	25	118
RES (Wind, Solar, Biomass & Others)	28	108	314	1	0	451
Total	993	1236	888	508	58	3683

Share of RES in total generation (%)	2.81	8.74	35.34	0.18	0.08	12.24
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	37.97	12.48	51.39	20.88	41.69	30.35

H. Diversity Factor

All India Demand Diversity Factor	1.017
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Diversity factor = Sum of regional maximum demands / All India maximum demand

\*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

**INTER-REGIONAL EXCHANGES**

Date of Reporting : 19-Jul-18

Import=(+ve)  
/Export =(-ve)  
for NET (MU)

Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
<b>Import/Export of ER (With NR)</b>									
1	765kV	GAYA-VARANASI	D/C	0	526	0.0	7.7	-7.7	
2		SASARAM-FATEHPUR	S/C	257	9	2.9	0.0	2.9	
3		GAYA-BALIA	S/C	0	411	0.0	8.1	-8.1	
4		ALIPURDUAR-AGRA	-	0	1019	0.0	16.5	-16.5	
5	400 kV	PUSAULI B/B	S/C	0	147	0.0	2.7	-2.7	
6		PUSAULI-VARANASI	S/C	0	146	0.0	0.0	0.0	
7		PUSAULI -ALLAHABAD	S/C	0	78	0.0	0.0	0.0	
8		MUZAFFARPUR-GORAKHPUR	D/C	2	852	0.0	15.8	-15.8	
9		PATNA-BALIA	Q/C	0	929	0.0	16.6	-16.6	
10		BIHARSHARIFF-BALIA	D/C	0	337	0.0	5.4	-5.4	
11		MOTIHARI-GORAKHPUR	D/C	317	1	5.1	0.0	5.1	
12		BIHARSHARIFF-VARANASI	D/C	702	0	0.0	0.8	-0.8	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	204	0.0	3.9	-3.9
14		132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	GARWAH-RIHAND		S/C	35	0	0.4	0.0	0.4	
16	KARMANASA-SAHUPURI		S/C	0	0	0.0	0.0	0.0	
17	KARMANASA-CHANDAULI		S/C	0	0	0.0	0.0	0.0	
<b>ER-NR</b>						<b>8.4</b>	<b>77.5</b>	<b>-69.0</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	696	1	10.2	0.0	10.2	
19		NEW RANCHI-DHARAMJAIGARH	D/C	1030	0	19.7	0.0	19.7	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	1085	0	18.5	0.0	18.5	
21		RANCHI-SIPAT	D/C	504	0	9.8	0.0	9.8	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	153	0	2.1	0.0	2.1	
23		BUDHIPADAR-KORBA	D/C	201	0	3.2	0.0	3.2	
<b>ER-WR</b>						<b>63.6</b>	<b>0.0</b>	<b>63.6</b>	
<b>Import/Export of ER (With SR)</b>									
24	765 kV	ANGUL-SRIKAKULAM	D/C	97.0	744.9	0.0	8.2	-8.2	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	476.8	0.0	9.1	-9.1	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1288.5	0.0	18.1	-18.1	
27	400 kV	TALCHER-I/C	D/C	936.7	0.6	0.0	17.3	-17.3	
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	0.0	0.0	0.0	0.0	0.0	
<b>ER-SR</b>						<b>0.0</b>	<b>35.4</b>	<b>-35.4</b>	
<b>Import/Export of ER (With NER)</b>									
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	522	0.0	9.8	-10	
30		ALIPURDUAR-BONGAIGAON	D/C	116	236	0.0	1.9	-2	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	0	119	0.0	3.4	-3	
<b>ER-NER</b>						<b>0.0</b>	<b>15.1</b>	<b>-15.1</b>	
<b>Import/Export of NER (With NR)</b>									
32	HVDC	BISWANATH CHARIALI-AGRA	-	0	701	0.0	16.8	-16.8	
<b>NER-NR</b>						<b>0.0</b>	<b>16.8</b>	<b>-16.8</b>	
<b>Import/Export of WR (With NR)</b>									
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2505	0.0	52.9	-52.9	
34		V'CHAL B/B	D/C	241	0	4.0	0.0	4.0	
35		APL -MHG	D/C	0	1898	0.0	40.7	-40.7	
36		GWALIOR-AGRA	D/C	0	1520	0.0	60.6	-60.6	
37	765 kV	PHAGI-GWALIOR	D/C	0	1712	0.0	31.8	-31.8	
38		JABALPUR-ORAI	D/C	0	675	0.0	27.8	-27.8	
39		GWALIOR-ORAI	S/C	739	0	12.1	0.0	12.1	
40		SATNA-ORAI	S/C	0	1802	0.0	40.3	-40.3	
41		400 kV	ZERDA-KANKROLI	S/C	69	194	0.0	1.7	-1.7
42			ZERDA -BHINMAL	S/C	72	216	0.0	2.0	-2.0
43	V'CHAL -RIHAND		S/C	966	0	22.6	0.0	22.6	
44	RAPP-SHUJALPUR		D/C	0	446	0	3	-3	
45	220 kV	BADOD-KOTA	S/C	18	63	0.0	0.8	-0.8	
46		BADOD-MORAK	S/C	0	60	0.0	1.5	-1.5	
47		MEHGAON-AURAIYA	S/C	21	44	0.0	0.4	-0.4	
48	132kV	MALANPUR-AURAIYA	S/C	0	65	0.0	1.0	-1.0	
49		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>38.7</b>	<b>264.4</b>	<b>-225.7</b>	
<b>Import/Export of WR (With SR)</b>									
50	HVDC	BHADRAWATI B/B	-	479	705	0.1	5.7	-5.6	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	1208	411	8.2	0.0	8.2	
53		WARDHA-NIZAMABAD	D/C	140	1402	0.0	13.7	-13.7	
54	400 kV	KOLHAPUR-KUDGI	D/C	863	0	12.3	0.0	12.3	
55	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
56		PONDA-AMBEWADI	S/C	0	0	0.0	0.0	0.0	
57		XELDEM-AMBEWADI	S/C	0	0	0.0	0.0	0.0	
<b>WR-SR</b>						<b>20.6</b>	<b>19.3</b>	<b>1.3</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
58		BHUTAN						<b>32.4</b>	
59		NEPAL						<b>-6.8</b>	
60		BANGLADESH						<b>-14.2</b>	