



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 सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 22<sup>nd</sup> July 2019

To,

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

**Sub: Daily PSP Report for the date 21.07.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-जुलाई-2019 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 21<sup>st</sup> July 2019, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting

22-Jul-19

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	52058	46486	36766	21579	2619	159508
Peak Shortage (MW)	952	39	281	0	198	1470
Energy Met (MU)	1262	1107	848	481	51	3749
Hydro Gen (MU)	336	28	40	117	28	550
Wind Gen (MU)	10	22	149	-----	-----	181
Solar Gen (MU)*	19.97	19.4	68.94	2.20	0.05	111
Energy Shortage (MU)	10.1	0.0	0.0	0.0	2.0	12.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	57492 22:36	48082 22:35	35489 07:12	23428 23:25	2545 19:46	163851 00:00

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	0.061	0.08	4.13	5.93	10.14	70.67	19.19

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	9689	0	211.6	127.9	-2.3	8	0.0
	Haryana	7912	0	171.5	134.3	-0.5	239	0.0
	Rajasthan	10723	0	240.5	67.0	1.9	576	0.0
	Delhi	5184	0	105.6	89.1	0.0	174	0.0
	UP	20414	170	418.2	196.2	0.5	458	0.0
	Uttarakhand	1900	0	41.2	16.5	0.3	180	0.4
	HP	1299	0	28.0	-2.5	-0.4	84	0.0
	J&K	2062	515	40.5	17.3	2.8	506	9.6
WR	Chhattisgarh	273	0	5.2	5.1	0.2	59	0.0
	Gujarat	4736	0	108.5	45.1	-0.2	213	0.0
	MP	15305	0	339.6	107.1	4.5	752	0.0
	MP	9478	0	209.9	111.6	0.0	521	0.0
	Maharashtra	18282	0	405.6	107.7	-2.1	351	0.0
	Goa	541	0	11.4	9.5	1.3	82	0.0
	DD	313	0	7.2	6.6	0.6	55	0.0
	DNH	777	0	19.1	18.4	0.7	24	0.0
SR	Essar steel	315	0	5.5	5.6	-0.1	295	0.0
	Andhra Pradesh	7506	0	164.9	31.8	2.8	496	0.0
	Telangana	8086	0	170.3	80.1	0.7	492	0.0
	Karnataka	8657	0	168.0	56.2	-0.4	493	0.0
	Kerala	2768	0	56.0	38.5	1.3	194	0.0
	Tamil Nadu	12558	0	282.4	102.0	-0.3	498	0.0
	Pondy	352	0	6.5	7.5	-0.9	36	0.0
	Bihar	5503	0	109.9	106.3	-0.6	300	0.0
ER	DVC	3121	0	64.5	-39.1	-3.8	450	0.0
	Jharkhand	1188	0	27.4	18.4	-0.3	100	0.0
	Odisha	4333	0	95.3	39.9	2.2	400	0.0
	West Bengal	9130	0	182.7	80.1	1.9	380	0.0
	Sikkim	68	0	1.0	0.9	0.1	25	0.0
NER	Arunachal Pradesh	122	3	2.2	2.5	-0.3	54	0.0
	Assam	1622	88	30.4	24.2	0.6	169	1.8
	Manipur	152	7	2.5	2.4	0.1	43	0.0
	Meghalaya	312	9	5.6	-1.3	-0.1	66	0.0
	Mizoram	89	1	1.8	1.1	-0.1	26	0.0
	Nagaland	129	4	2.3	2.2	-0.2	26	0.1
	Tripura	297	17	6.2	4.4	1.5	53	0.1

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	36.3	-3.0	-26.0
Day peak (MW)	1703.6	-307.6	-1126.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	268.4	-206.1	-12.3	-37.6	-12.5	0.0
Actual(MU)	268.0	-225.0	26.6	-60.0	-13.3	-3.7
O/D/U/D(MU)	-0.4	-19.0	38.9	-22.4	-0.8	-3.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5219	16239	6802	2550	82	30891
State Sector	8415	14201	9370	4460	50	36496
Total	13634	30440	16172	7010	131	67387

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	556	1152	459	442	14	2624
Lignite	18	12	45	0	0	75
Hydro	336	28	40	117	28	551
Nuclear	27	31	60	0	0	118
Gas, Naptha & Diesel	25	47	11	0	28	110
RES (Wind, Solar, Biomass & Others)	44	46	256	2	0	349
Total	1007	1317	872	561	70	3827

Share of RES in total generation (%)	4.38	3.52	29.37	0.40	0.07	9.12
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	40.51	8.03	40.91	21.26	40.52	26.60

H. Diversity Factor

All India Demand Diversity Factor	1.019
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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 : 22-Jul-19

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	401	0.0	5.9	-5.9	
2		SASARAM-FATEHPUR	S/C	212	1	2.3	0.0	2.3	
3		GAYA-BALIA	S/C	0	391	0.0	7.1	-7.1	
4		ALIPURDUAR-AGRA	-	0	1401	0.0	24.8	-24.8	
5		PUSAULI B/B	S/C	0	249	0.0	5.9	-5.9	
6	400 kV	PUSAULI-VARANASI	S/C	0	207	0.0	4.4	-4.4	
7		PUSAULI -ALLAHABAD	S/C	0	101	0.0	1.5	-1.5	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	565	0.0	9.0	-9.0	
9		PATNA-BALIA	Q/C	0	678	0.0	12.7	-12.7	
10		BIHARSHARIFF-BALIA	D/C	0	256	0.0	4.9	-4.9	
11		MOTIHARI-GORAKHPUR	D/C	0	337	0.0	6.0	-6.0	
12	220 kV	BIHARSHARIFF-VARANASI	D/C	84	130	0.0	0.4	-0.4	
13		PUSAULI-SAHUPURI	S/C	0	173	0.0	3.4	-3.4	
14		132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15			GARWAH-RIHAND	S/C	30	0	0.6	0.0	0.6
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>2.9</b>	<b>86.0</b>	<b>-83.0</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMAJGARH	Q/C	1092	0	15.6	0.0	15.6	
19		NEW RANCHI-DHARAMAJGARH	D/C	1408	0	23.5	0.0	23.5	
20		JHARSUGUDA-DURG	D/C	300	0	4.7	0.0	4.7	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	70	223	0.0	2.0	-2.0	
22		RANCHI-SIPAT	D/C	433	0	8.6	0.0	8.6	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	2	0.0	0.0	0.0	
24		BUDHIPADAR-KORBA	D/C	86	0	1.4	0.0	1.4	
<b>ER-WR</b>						<b>53.9</b>	<b>2.0</b>	<b>51.9</b>	
<b>Import/Export of ER (With SR)</b>									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	921.0	0.0	11.4	-11.4	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	206.0	428.0	0.0	8.4	-8.4	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1289.0	0.0	21.9	-21.9	
28	400 kV	TALCHER-I/C	D/C	1303.0	0.0	21.0	0.0	21.0	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
<b>ER-SR</b>						<b>0.0</b>	<b>41.8</b>	<b>-41.8</b>	
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	703	0.0	11.6	-12	
31		ALIPURDUAR-BONGAIGAON	D/C	408	248	1.0	0.0	1	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	121	0.0	1.5	-1	
<b>ER-NER</b>						<b>1.0</b>	<b>13.0</b>	<b>-12.0</b>	
<b>Import/Export of NER (With NR)</b>									
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	1374	0.0	27.4	-27.4	
<b>NER-NR</b>						<b>0.0</b>	<b>27.4</b>	<b>-27.4</b>	
<b>Import/Export of WR (With NR)</b>									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1004	0.0	23.6	-23.6	
35		V'CHAL B/B	D/C	450	53	6.5	0.5	6.0	
36		APL -MHG	D/C	0	1172	0.0	29.1	-29.1	
37	765 kV	GWALIOR-AGRA	D/C	0	2456	0.0	47.1	-47.1	
38		PHAGI-GWALIOR	D/C	0	1337	0.0	22.9	-22.9	
39		JABALPUR-ORAI	D/C	0	1025	0.0	41.6	-41.6	
40		GWALIOR-ORAI	S/C	557	0	10.5	0.0	10.5	
41		SATNA-ORAI	S/C	0	1368	0.0	28.3	-28.3	
42		CHITTORGARH-BANASKANTHA	D/C	230	560	0.0	3.5	3.5	
43	400 kV	ZERDA-KANKROLI	S/C	106	99	0.8	0.3	0.5	
44		ZERDA -BHINMAL	S/C	174	255	0.4	1.6	-1.2	
45		V'CHAL -RIHAND	S/C	963	0	22.5	0.0	22.5	
46		RAPP-SHUJALPUR	D/C	0	462	0	3	-3	
47	220 kV	BHANPURA-RANPUR	S/C	0	71	0.0	1.0	-1.0	
48		BHANPURA-MORAK	S/C	0	154	0.0	2.1	-2.1	
49		MEHGAON-AURAIYA	S/C	72	0	0.7	0.0	0.7	
50		MALANPUR-AURAIYA	S/C	31	33	0.1	0.3	-0.2	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>41.4</b>	<b>204.3</b>	<b>-156.0</b>	
<b>Import/Export of WR (With SR)</b>									
52	HVDC	BHADRAWATI B/B	-	385	806	0.7	8.9	-8.2	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	1570	308	0.0	12.3	-12.3	
55		WARDHA-NIZAMABAD	D/C	715	1493	0.0	9.3	-9.3	
56	400 kV	KOLHAPUR-KUDGI	D/C	1352	0	21.6	0.0	21.6	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	3	45	0.0	0.4	-0.4	
59		XELDEM-AMBEWADI	S/C	1	26	0.2	0.0	0.2	
<b>WR-SR</b>						<b>22.5</b>	<b>30.9</b>	<b>-8.4</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						<b>36.3</b>	
61		NEPAL						<b>-3.0</b>	
62		BANGLADESH						<b>-26.0</b>	