



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: 24<sup>th</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 23.07.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-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 23<sup>rd</sup> July 2019, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting

24-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)	59193	50648	39146	20825	2548	172360
Peak Shortage (MW)	3244	0	0	0	258	3502
Energy Met (MU)	1397	1190	891	482	47	4008
Hydro Gen (MU)	330	36	42	117	30	555
Wind Gen (MU)	6	49	142	-----	-----	197
Solar Gen (MU)*	23.51	22.9	64.24	1.96	0.03	113
Energy Shortage (MU)	32.4	0.0	0.0	0.0	1.9	34.3
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	62768 23:03	52482 15:19	38884 07:58	22955 00:02	2566 19:32	171563 20:01

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	0.058	0.38	1.77	12.38	14.54	71.06	14.40

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	11271	0	253.7	134.2	-1.6	69	0.0
	Haryana	9842	0	211.3	161.5	0.7	253	0.0
	Rajasthan	11344	0	251.4	79.1	9.7	986	0.0
	Delhi	6444	0	129.0	110.4	1.5	356	0.0
	UP	20999	1600	428.8	208.8	3.8	793	18.9
	Uttarakhand	1996	110	43.3	17.5	1.0	166	2.1
	HP	1480	0	30.4	-2.6	7.6	870	1.3
	J&K	2194	549	42.8	18.7	3.6	460	10.2
	Chandigarh	363	0	6.8	6.8	0.0	62	0.0
	WR	Chhattisgarh	4686	0	111.6	47.8	-1.2	183
Gujarat		16280	0	355.4	88.9	4.2	579	0.0
MP		9929	0	229.2	121.1	4.8	858	0.0
Maharashtra		19775	0	451.4	126.9	-2.9	379	0.0
Goa		541	0	11.0	10.7	-0.4	49	0.0
DD		349	0	7.8	7.3	0.5	53	0.0
DNH		822	0	19.2	19.4	-0.2	56	0.0
Essar steel		282	0	4.8	5.2	-0.3	223	0.0
Andhra Pradesh		7470	0	168.2	21.3	-0.7	444	0.0
Telangana		8918	0	191.1	104.6	0.4	565	0.0
SR	Karnataka	9044	0	164.5	52.0	-2.4	744	0.0
	Kerala	3170	0	60.7	42.1	1.7	322	0.0
	Tamil Nadu	14039	0	299.0	117.2	-0.4	657	0.0
	Pondy	374	0	7.8	8.1	-0.3	45	0.0
	Bihar	5207	0	97.4	93.7	-0.6	50	0.0
ER	DVC	3017	0	63.7	-44.5	-1.3	120	0.0
	Jharkhand	1070	0	24.8	17.0	-1.6	50	0.0
	Odisha	4917	0	102.5	43.4	3.3	400	0.0
	West Bengal	9205	0	192.2	88.1	2.9	350	0.0
	Sikkim	95	0	1.2	1.2	0.0	26	0.0
NER	Arunachal Pradesh	118	2	2.3	2.7	-0.3	84	0.0
	Assam	1583	130	27.8	22.3	1.3	135	1.9
	Manipur	156	3	2.5	2.3	0.2	21	0.0
	Meghalaya	295	0	5.4	-0.7	-0.1	42	0.0
	Mizoram	96	2	1.9	1.4	-0.2	11	0.0
	Nagaland	135	1	2.0	2.1	-0.3	46	0.0
	Tripura	288	4	4.8	4.5	-0.2	44	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	37.3	-3.3	-26.4
Day peak (MW)	1700.4	-201.0	-1139.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	312.4	-238.6	-14.8	-45.4	-13.2	0.5
Actual(MU)	348.1	-244.6	-8.2	-54.0	-14.4	27.0
O/D/U/D(MU)	35.6	-6.0	6.6	-8.6	-1.2	26.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	2464	13424	6502	2030	82	24502
State Sector	8355	13061	7740	4580	50	33786
Total	10819	26485	14242	6610	131	58287

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	621	1221	524	448	11	2825
Lignite	19	12	49	0	0	80
Hydro	330	36	42	117	30	555
Nuclear	27	31	60	0	0	118
Gas, Naptha & Diesel	25	66	11	0	27	128
RES (Wind, Solar, Biomass & Others)	45	76	242	2	0	365
Total	1067	1442	928	567	67	4071

Share of RES in total generation (%)	4.25	5.27	26.08	0.35	0.04	8.98
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	37.71	9.90	37.11	20.98	44.26	25.50

H. Diversity Factor

All India Demand Diversity Factor	1.047
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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 : 24-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	441	0.0	5.8	-5.8	
2		SASARAM-FATEHPUR	S/C	216	141	0.6	0.0	0.6	
3		GAYA-BALIA	S/C	0	424	0.0	7.6	-7.6	
4		ALIPURDUAR-AGRA	-	0	1801	0.0	38.5	-38.5	
5		PUSAULI B/B	S/C	0	248	0.0	6.1	-6.1	
6	400 kV	PUSAULI-VARANASI	S/C	0	195	0.0	4.1	-4.1	
7		PUSAULI -ALLAHABAD	S/C	0	116	0.0	1.9	-1.9	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	677	0.0	9.6	-9.6	
9		PATNA-BALIA	Q/C	0	780	0.0	15.2	-15.2	
10		BIHARSHARIFF-BALIA	D/C	0	383	0.0	6.7	-6.7	
11		MOTIHARI-GORAKHPUR	D/C	0	332	0.0	6.4	-6.4	
12	220 kV	BIHARSHARIFF-VARANASI	D/C	52	163	0.0	0.5	-0.5	
13		PUSAULI-SAHUPURI	S/C	0	167	0.0	3.2	-3.2	
14		132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15			GARWAH-RIHAND	S/C	30	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>1.0</b>	<b>105.6</b>	<b>-104.7</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1081	0	10.9	0.0	10.9	
19		NEW RANCHI-DHARAMJAIGARH	D/C	1564	0	24.5	0.0	24.5	
20		JHARSUGUDA-DURG	D/C	328	0	4.5	0.0	4.5	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	171	245	0.2	0.0	0.2	
22		RANCHI-SIPAT	D/C	488	0	7.8	0.0	7.8	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	2	0.0	0.0	0.0	
24		BUDHIPADAR-KORBA	D/C	110	0	1.8	0.0	1.8	
<b>ER-WR</b>						<b>49.8</b>	<b>0.0</b>	<b>49.8</b>	
<b>Import/Export of ER (With SR)</b>									
25	765 kV	ANGUL-SRIKAKULAM	D/C	183.0	1239.0	0.0	11.2	-11.2	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	301.0	0.0	7.2	-7.2	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	786.0	0.0	18.4	-18.4	
28	400 kV	TALCHER-I/C	D/C	1004.0	0.0	23.5	0.0	23.5	
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>36.8</b>	<b>-36.8</b>	
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	707	0.0	10.9	-11	
31		ALIPURDUAR-BONGAIGAON	D/C	356	110	3.6	0.0	4	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	4	74	0.0	0.6	-1	
<b>ER-NER</b>						<b>3.6</b>	<b>11.5</b>	<b>-7.9</b>	
<b>Import/Export of NER (With NR)</b>									
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	1004	0.0	24.3	-24.3	
<b>NER-NR</b>						<b>0.0</b>	<b>24.3</b>	<b>-24.3</b>	
<b>Import/Export of WR (With NR)</b>									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2508	0.0	52.5	-52.5	
35		V'CHAL B/B	D/C	185	0	1.7	0.0	1.7	
36		APL -MHG	D/C	0	2097	0.0	47.6	-47.6	
37	765 kV	GWALIOR-AGRA	D/C	0	2754	0.0	49.0	-49.0	
38		PHAGI-GWALIOR	D/C	0	1339	0.0	24.8	-24.8	
39		JABALPUR-ORAI	D/C	0	1167	0.0	43.7	-43.7	
40		GWALIOR-ORAI	S/C	503	0	10.1	0.0	10.1	
41		SATNA-ORAI	S/C	0	1475	0.0	32.1	-32.1	
42		CHITTORGARH-BANASKANTHA	D/C	171	606	3.2	0.0	3.2	
43	400 kV	ZERDA-KANKROLI	S/C	83	108	0.5	0.6	-0.1	
44		ZERDA -BHINMAL	S/C	85	229	0.1	2.1	-2.0	
45		V'CHAL -RIHAND	S/C	962	0	22.1	0.0	22.1	
46		RAPP-SHUJALPUR	D/C	0	399	0	3	-3	
47	220 kV	BHANPURA-RANPUR	S/C	0	81	0.0	1.1	-1.1	
48		BHANPURA-MORAK	S/C	0	124	0.0	2.2	-2.2	
49		MEHGAON-AURAIYA	S/C	75	0	1.0	0.0	1.0	
50		MALANPUR-AURAIYA	S/C	36	25	0.1	0.1	0.1	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>38.8</b>	<b>259.0</b>	<b>-220.2</b>	
<b>Import/Export of WR (With SR)</b>									
52	HVDC	BHADRAWATI B/B	-	483	211	4.7	2.1	2.6	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	1620	1118	16.3	0.0	16.3	
55		WARDHA-NIZAMABAD	D/C	5	1776	0.0	18.0	-18.0	
56	400 kV	KOLHAPUR-KUDGI	D/C	1345	0	25.2	0.0	25.2	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	63	0.0	1.1	-1.1	
59		XELDEM-AMBEWADI	S/C	0	36	0.6	0.0	0.6	
<b>WR-SR</b>						<b>46.8</b>	<b>21.3</b>	<b>25.6</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						<b>37.3</b>	
61		NEPAL						<b>-3.3</b>	
62		BANGLADESH						<b>-26.4</b>	