



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: 15<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 14.07.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14<sup>th</sup> July 2019, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting

15-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)	51006	45905	37939	20151	2278	157279
Peak Shortage (MW)	433	0	0	0	219	652
Energy Met (MU)	1214	1091	891	425	43	3666
Hydro Gen (MU)	346	12	40	103	31	531
Wind Gen (MU)	71	185	134	-----	-----	390
Solar Gen (MU)*	20.54	20.5	74.76	2.11	0.02	118
Energy Shortage (MU)	16.0	0.0	0.0	0.0	1.5	17.5
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	58081 00:12	48167 23:31	38879 06:57	21380 23:38	2312 19:53	163308 00:12

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	0.040	0.00	0.06	1.92	1.98	68.78	29.24

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	9341	0	174.4	123.2	-5.3	34	0.0
	Haryana	9636	0	192.3	148.6	-0.3	324	1.0
	Rajasthan	11514	0	247.6	61.2	-0.4	381	0.0
	Delhi	6486	0	125.5	106.1	-0.1	250	5.3
	UP	19087	0	370.5	169.9	1.0	501	0.0
	Uttarakhand	1608	0	34.4	11.9	-2.2	83	0.0
	HP	1213	0	25.3	-3.4	-1.8	7	0.0
	J&K	1957	489	40.7	17.0	1.8	311	9.7
WR	Chhattisgarh	193	0	3.7	5.4	-1.7	-14	0.0
	Gujarat	4421	0	102.8	35.7	0.2	369	0.0
	MP	15223	0	346.8	58.1	4.0	565	0.0
	Maharashtra	8826	0	193.3	88.4	0.0	315	0.0
	Goa	17698	0	404.8	103.2	-0.2	543	0.0
	DD	541	0	11.6	10.1	0.9	60	0.0
	DD	312	0	7.1	6.7	0.4	45	0.0
	DNH	776	0	18.4	18.6	-0.2	23	0.0
SR	Essar steel	340	0	6.2	6.1	0.1	348	0.0
	Andhra Pradesh	7970	0	171.8	22.6	1.8	498	0.0
	Telangana	7950	0	170.2	70.3	-0.3	492	0.0
	Karnataka	9278	0	182.3	49.6	1.5	496	0.0
	Kerala	3296	0	65.6	55.4	3.3	309	0.0
	Tamil Nadu	12825	0	294.6	133.6	-1.0	499	0.0
	Pondy	336	0	6.9	7.1	-0.2	50	0.0
	Bihar	4533	0	71.2	72.4	-1.7	70	0.0
ER	DVC	3032	0	66.6	-33.7	0.0	170	0.0
	Jharkhand	1183	0	25.2	16.2	-0.5	80	0.0
	Odisha	4879	0	92.4	36.0	2.6	370	0.0
	West Bengal	8602	0	169.2	66.1	6.0	350	0.0
	Sikkim	70	0	0.8	1.0	-0.2	20	0.0
NER	Arunachal Pradesh	109	8	2.0	2.7	-0.7	22	0.0
	Assam	1403	43	25.9	19.5	0.6	84	1.5
	Manipur	141	7	2.4	2.4	0.0	18	0.0
	Meghalaya	293	10	5.3	-1.0	-0.5	54	0.0
	Mizoram	86	4	1.6	1.3	0.1	11	0.0
	Nagaland	113	9	2.1	2.2	-0.2	25	0.0
	Tripura	220	19	4.1	3.1	-0.2	32	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	42.9	-2.3	-23.1
Day peak (MW)	1868.6	-120.0	-1095.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	251.2	-249.5	66.6	-52.7	-16.0	-0.3
Actual(MU)	237.1	-251.8	81.0	-50.0	-19.0	-2.7
O/D/U/D(MU)	-14.1	-2.3	14.4	2.7	-3.1	-2.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4308	17971	8642	3000	306	34227
State Sector	11730	14590	7090	4890	50	38350
Total	16038	32561	15732	7890	356	72576

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	469	1031	437	379	8	2324
Lignite	17	13	34	0	0	64
Hydro	346	12	40	103	31	531
Nuclear	27	30	52	0	0	109
Gas, Naptha & Diesel	30	39	12	0	28	109
RES (Wind, Solar, Biomass & Others)	107	218	243	2	0	570
Total	996	1343	817	484	67	3708

Share of RES in total generation (%)	10.74	16.24	29.75	0.45	0.03	15.38
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	48.18	19.35	40.98	21.71	46.45	32.66

H. Diversity Factor

All India Demand Diversity Factor	1.034
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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 : 15-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	192	621	0.0	4.8	-4.8
2		SASARAM-FATEHPUR	S/C	218	214	0.0	0.3	-0.3
3		GAYA-BALIA	S/C	0	351	0.0	3.9	-3.9
4		ALIPURDUAR-AGRA	-	0	1603	0.0	39.0	-39.0
5		PUSAULI B/B	S/C	0	98	0.0	2.6	-2.6
6	400 kV	PUSAULI-VARANASI	S/C	0	117	0.0	1.7	-1.7
7		PUSAULI -ALLAHABAD	S/C	11	88	0.0	0.7	-0.7
8		MUZAFFARPUR-GORAKHPUR	D/C	131	536	0.0	5.8	-5.8
9		PATNA-BALIA	Q/C	0	832	0.0	11.4	-11.4
10		BIHARSHARIFF-BALIA	D/C	26	288	0.0	3.3	-3.3
11		MOTIHARI-GORAKHPUR	D/C	0	356	0.0	5.4	-5.4
12		BIHARSHARIFF-VARANASI	D/C	201	285	0.0	0.7	-0.7
13	220 kV	PUSAULI-SAHUPURI	S/C	23	189	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	0.6	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>0.6</b>	<b>82.5</b>	<b>-82.0</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	2158	0	35.3	0.0	35.3
19		NEW RANCHI-DHARAMJAIGARH	D/C	1173	0	20.9	0.0	20.9
20		JHARSUGUDA-DURG	D/C	393	0	5.9	0.0	5.9
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	402	85	4.6	0.0	4.6
22		RANCHI-SIPAT	D/C	451	0	6.0	0.0	6.0
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	99	0.0	1.6	-1.6
24		BUDHIPADAR-KORBA	D/C	225	0	3.8	0.0	3.8
<b>ER-WR</b>						<b>76.3</b>	<b>1.6</b>	<b>74.8</b>
<b>Import/Export of ER (With SR)</b>								
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1593.0	0.0	22.0	-22.0
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	680.0	0.0	11.6	-11.6
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2471.0	0.0	37.1	-37.1
28	400 kV	TALCHER-I/C	D/C	178.0	1509.0	0.0	11.0	-11.0
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>70.7</b>	<b>-70.7</b>
<b>Import/Export of ER (With NER)</b>								
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	522	0.0	5.8	-6
31		ALIPURDUAR-BONGAIGAON	D/C	444	0	7.6	0.0	8
32	220 kV	ALIPURDUAR-SALAKATI	D/C	16	79	0.0	0.4	0
<b>ER-NER</b>						<b>7.6</b>	<b>6.1</b>	<b>1.5</b>
<b>Import/Export of NER (With NR)</b>								
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	803	0.0	19.4	-19.4
<b>NER-NR</b>						<b>0.0</b>	<b>19.4</b>	<b>-19.4</b>
<b>Import/Export of WR (With NR)</b>								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1004	0.0	17.0	-17.0
35		V'CHAL B/B	D/C	454	0	10.5	0.0	10.5
36		APL -MHG	D/C	0	1169	0.0	29.1	-29.1
37	765 kV	GWALIOR-AGRA	D/C	0	2377	0.0	39.7	-39.7
38		PHAGI-GWALIOR	D/C	0	1002	0.0	17.4	-17.4
39		JABALPUR-ORAI	D/C	0	994	0.0	33.6	-33.6
40		GWALIOR-ORAI	S/C	328	0	6.4	0.0	6.4
41		SATNA-ORAI	S/C	0	1311	0.0	26.7	-26.7
42		CHITTORGARH-BANASKANTHA	D/C	0	968	0.0	8.6	8.6
43		ZERDA-KANKROLI	S/C	115	96	0.6	0.4	0.2
44	400 kV	ZERDA -BHINMAL	S/C	344	0	5.0	0.0	5.0
45		V'CHAL -RIHAND	S/C	960	0	22.0	0.0	22.0
46		RAPP-SHUJALPUR	D/C	65	300	0	1	-1
47	220 kV	BHANPURA-RANPUR	S/C	46	69	0.1	0.6	-0.5
48		BHANPURA-MORAK	S/C	0	179	0.0	3.0	-3.0
49		MEHGAON-AURAIYA	S/C	81	0	0.8	0.0	0.8
50		MALANPUR-AURAIYA	S/C	43	27	0.2	0.2	0.0
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>45.5</b>	<b>177.8</b>	<b>-115.1</b>
<b>Import/Export of WR (With SR)</b>								
52	HVDC	BHADRAWATI B/B	-	0	999	0.0	14.1	-14.1
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	576	1377	0.0	7.2	-7.2
55		WARDHA-NIZAMABAD	D/C	0	1836	0.0	26.5	-26.5
56	400 kV	KOLHAPUR-KUDGI	D/C	772	155	8.9	0.0	8.9
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	0	75	0.0	1.4	-1.4
59		XELDEM-AMBEWADI	S/C	0	43	0.8	0.0	0.8
<b>WR-SR</b>						<b>9.8</b>	<b>49.3</b>	<b>-39.5</b>
<b>TRANSNATIONAL EXCHANGE</b>								
60		BHUTAN						<b>42.9</b>
61		NEPAL						<b>-2.3</b>
62		BANGLADESH						<b>-23.1</b>