



**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: 05<sup>th</sup> July 2019

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. 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
3. 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
4. मुख्य महाप्रबंधक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Chief General Manager, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. 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 04.07.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04<sup>rd</sup> July 2019, 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

5-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)	56715	43858	42025	19006	2846	164450
Peak Shortage (MW)	387	9	0	0	149	545
Energy Met (MU)	1439	994	957	454	55	3898
Hydro Gen (MU)	377	12	33	91	19	532
Wind Gen (MU)	45	125	192	-----	-----	363
Solar Gen (MU)*	27.52	12.01	73.58	1.93	0.03	115
Energy Shortage (MU)	10.9	0.2	0.0	0.0	0.8	11.8
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	66135 00:06	45431 19:48	42408 19:37	22013 20:51	2901 19:58	171313 21:39

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	0.063	0.51	1.22	9.29	11.02	60.54	28.44

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	12900	0	289.9	141.7	-1.9	85	0.0
	Haryana	10748	0	208.2	150.9	-3.0	251	0.0
	Rajasthan	11049	0	237.3	57.2	-2.2	543	0.0
	Delhi	6877	0	139.2	115.2	0.2	330	0.1
	UP	20770	0	441.2	215.0	-0.1	979	0.0
	Uttarakhand	2051	0	45.2	19.2	0.7	257	0.0
	HP	1403	0	30.0	2.0	-0.8	73	0.0
	J&K	2177	544	41.6	19.8	-3.2	350	10.8
WR	Chandigarh	313	0	6.1	7.4	-1.2	0	0.0
	Chhattisgarh	3544	0	79.8	22.6	-1.0	295	0.0
	Gujarat	13988	0	318.1	55.5	3.1	632	0.0
	MP	7484	0	161.1	77.5	0.0	408	0.0
	Maharashtra	17761	7	392.8	94.1	1.8	623	0.2
	Goa	541	0	10.0	11.3	-1.9	46	0.0
	DD	336	0	7.5	6.8	0.8	65	0.0
	DNH	810	0	18.8	18.9	-0.1	65	0.0
SR	Essar steel	292	0	5.3	5.0	0.4	348	0.0
	Andhra Pradesh	8564	0	179.4	3.3	0.6	555	0.0
	Telangana	7240	0	152.5	52.4	0.3	487	0.0
	Karnataka	10006	0	195.4	57.4	-1.6	487	0.0
	Kerala	3659	0	73.4	60.8	2.5	289	0.0
	Tamil Nadu	15850	0	346.7	160.3	1.1	1203	0.0
	Pondy	457	0	9.4	9.2	0.2	79	0.0
	ER	Bihar	5542	0	106.2	99.4	3.2	350
DVC		3157	0	66.3	-40.6	0.3	300	0.0
Jharkhand		1000	0	22.7	17.6	-0.3	100	0.0
Odisha		3864	0	81.6	25.7	0.7	250	0.0
West Bengal		8796	0	176.1	55.6	5.1	500	0.0
Sikkim		94	0	1.2	1.4	-0.1	20	0.0
NER	Arunachal Pradesh	139	0	2.4	2.5	-0.1	67	0.0
	Assam	1797	81	35.0	30.0	1.4	528	0.7
	Manipur	154	2	2.5	2.4	0.1	27	0.0
	Meghalaya	332	0	5.9	2.4	0.0	201	0.0
	Mizoram	94	1	1.7	1.4	0.2	26	0.0
	Nagaland	137	2	2.5	2.5	-0.2	20	0.0
	Tripura	287	2	5.1	3.7	-0.5	34	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	19.5	-10.4	-24.8
Day peak (MW)	1166.7	-534.8	-1065.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	316.9	-284.7	32.9	-62.0	-3.0	0.1
Actual(MU)	304.3	-289.8	42.1	-61.1	-1.0	-5.7
O/D/U/D(MU)	-12.7	-5.1	9.2	0.9	2.0	-5.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4630	17235	8392	2170	56	32483
State Sector	6110	15934	7380	3270	50	32744
Total	10740	33169	15772	5440	106	65227

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	617	1061	474	440	14	2605
Lignite	18	15	48	0	0	81
Hydro	377	12	33	91	19	532
Nuclear	27	26	55	0	0	108
Gas, Naptha & Diesel	34	39	13	0	29	114
RES (Wind, Solar, Biomass & Others)	88	145	299	2	0	534
Total	1160	1298	921	532	62	3973

Share of RES in total generation (%)	7.55	11.17	32.46	0.36	0.05	13.43
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	42.36	14.15	41.93	17.42	31.41	29.53

H. Diversity Factor

All India Demand Diversity Factor	1.044
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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 :	5-Jul-19
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
								Import=(+ve) /Export =(-ve) for NET (MU)	
<b>Import/Export of ER (With NR)</b>									
1	765kV	GAYA-VARANASI	D/C	78	481	0.0	6.5	-6.5	
2		SASARAM-FATEHPUR	S/C	402	0	5.8	0.0	5.8	
3		GAYA-BALIA	S/C	0	657	0.0	12.4	-12.4	
4	HVDC	ALIPURDUAR-AGRA	-	0	1304	0.0	29.8	-29.8	
5		PUSAULI B/B	S/C	0	346	0.0	8.7	-8.7	
6	400 kV	PUSAULI-VARANASI	S/C	0	292	0.0	6.5	-6.5	
7		PUSAULI -ALLAHABAD	S/C	0	118	0.0	2.0	-2.0	
8		MUZAFFARPUR-GORAKHPUR	D/C	20	512	0.0	6.8	-6.8	
9		PATNA-BALIA	Q/C	0	1099	0.0	20.4	-20.4	
10		BIHARSHARIFF-BALIA	D/C	0	391	0.0	6.2	-6.2	
11		MOTIHARI-GORAKHPUR	D/C	309	0	6.1	0.0	6.1	
12		BIHARSHARIFF-VARANASI	D/C	292	14	3.2	0.0	3.2	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	188	0.0	3.8	-3.8	
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>15.7</b>	<b>103.0</b>	<b>-87.4</b>
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1543	0	18.3	0.0	18.3	
19		NEW RANCHI-DHARAMJAIGARH	D/C	1241	0	21.4	0.0	21.4	
20		JHARSUGUDA-DURG	D/C	275	13	3.4	0.0	3.4	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	481	0	7.1	0.0	7.1	
22		RANCHI-SIPAT	D/C	491	0	9.3	0.0	9.3	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	80	0.0	0.9	-0.9	
24		BUDHIPADAR-KORBA	D/C	221	0	3.7	0.0	3.7	
						<b>ER-WR</b>	<b>63.3</b>	<b>0.9</b>	<b>62.4</b>
<b>Import/Export of ER (With SR)</b>									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1642.0	0.0	20.7	-20.7	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	310.0	0.0	7.2	-7.2	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1788.0	0.0	35.9	-35.9	
28	400 kV	TALCHER-I/C	D/C	285.0	821.0	0.0	5.7	-5.7	
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>63.8</b>	<b>-63.8</b>
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	645	0.0	10.0	-10	
31		ALIPURDUAR-BONGAIGAON	D/C	312	205	1.4	0.0	1	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	104	0.0	1.4	-1	
						<b>ER-NER</b>	<b>1.4</b>	<b>11.4</b>	<b>-10.0</b>
<b>Import/Export of NER (With NR)</b>									
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	503	0.0	12.1	-12.1	
						<b>NER-NR</b>	<b>0.0</b>	<b>12.1</b>	<b>-12.1</b>
<b>Import/Export of WR (With NR)</b>									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	3010	0.0	64.7	-64.7	
35		V'CHAL B/B	D/C	96	490	0.0	5.3	-5.3	
36		APL -MHG	D/C	0	1915	0.0	45.5	-45.5	
37	765 kV	GWALIOR-AGRA	D/C	0	2543	0.0	50.3	-50.3	
38		PHAGI-GWALIOR	D/C	0	1041	0.0	18.7	-18.7	
39		JABALPUR-ORAI	D/C	0	936	0.0	37.7	-37.7	
40		GWALIOR-ORAI	S/C	383	0	7.4	0.0	7.4	
41		SATNA-ORAI	S/C	0	1414	0.0	29.9	-29.9	
42		CHITTORGARH-BANASKANTHA	D/C	348	507	2.1	3.1	1.0	
43		ZERDA-KANKROLI	S/C	144	42	1.7	0.1	1.6	
44	400 kV	ZERDA -BHINMAL	S/C	372	0	5.5	0.0	5.5	
45		V'CHAL -RIHAND	S/C	979	0	22.4	0.0	22.4	
46	220 kV	RAPP-SHUJALPUR	D/C	49	291	0	2	-2	
47		BHANPURA-RANPUR	S/C	9	46	0.0	0.4	-0.4	
48		BHANPURA-MORAK	S/C	0	81	0.0	1.1	-1.1	
49		MEHGAON-AURAIYA	S/C	36	17	0.1	0.3	-0.2	
50	132kV	MALANPUR-AURAIYA	S/C	0	55	0.0	0.8	-0.8	
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						<b>WR-NR</b>	<b>39.2</b>	<b>259.6</b>	<b>-218.5</b>
<b>Import/Export of WR (With SR)</b>									
52	HVDC	BHADRAWATI B/B	-	94	502	0.0	5.1	-5.1	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	1257	1216	5.3	8.5	-3.2	
55		WARDHA-NIZAMABAD	D/C	602	1583	0.0	15.2	-15.2	
56	400 kV	KOLHAPUR-KUDGI	D/C	1149	0	12.8	0.0	12.8	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	66	0.0	1.3	-1.3	
59		XELDEM-AMBEWADI	S/C	0	38	0.7	0.0	0.7	
						<b>WR-SR</b>	<b>18.8</b>	<b>30.1</b>	<b>-11.2</b>
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						19.5	
61		NEPAL						-10.4	
62		BANGLADESH						-24.8	