



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: 20th 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 19.07.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-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 19th July 2019, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting

20-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)	53172	48644	38792	21489	2747	164844
Peak Shortage (MW)	2481	0	0	0	184	2665
Energy Met (MU)	1239	1201	924	486	53	3903
Hydro Gen (MU)	334	40	44	101	30	549
Wind Gen (MU)	14	31	152	-----	-----	197
Solar Gen (MU)*	20.33	21.71	61.26	2.12	0.04	105
Energy Shortage (MU)	18.6	0.0	0.0	0.0	1.1	19.7
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	57445 22:35	52862 10:47	41311 07:27	23067 00:01	2782 20:04	169780 22:20

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	0.035	0.00	0.51	2.80	3.31	74.36	22.33

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	8816	0	192.9	123.8	-1.7	97	0.0
	Haryana	8309	270	171.8	140.3	0.6	390	0.8
	Rajasthan	10966	0	240.0	59.6	2.3	820	0.0
	Delhi	5699	0	108.6	92.1	0.3	177	0.1
	UP	18989	410	407.1	174.1	1.9	868	6.6
	Uttarakhand	1958	0	42.4	16.5	1.3	195	1.3
	HP	1399	0	29.5	-1.9	-0.3	51	0.0
	J&K	1974	494	41.5	21.3	-0.6	376	9.8
	Chandigarh	260	0	5.3	5.6	-0.3	19	0.0
	WR	Chhattisgarh	4158	0	98.7	38.6	-1.3	257
Gujarat		17558	0	390.7	103.8	9.4	1162	0.0
MP		10097	0	218.6	106.4	0.0	973	0.0
Maharashtra		19948	0	449.2	125.4	0.8	902	0.0
Goa		541	0	11.4	10.7	0.1	71	0.0
DD		350	0	7.8	7.1	0.7	55	0.0
DNH		799	0	18.8	19.0	-0.2	51	0.0
Essar steel		320	0	5.6	5.2	0.3	339	0.0
Andhra Pradesh		7647	0	169.0	39.5	2.1	785	0.0
Telangana		8487	0	182.0	107.3	0.8	939	0.0
SR	Karnataka	10244	0	195.4	72.0	2.7	889	0.0
	Kerala	2948	0	61.3	46.1	1.3	246	0.0
	Tamil Nadu	13750	0	308.9	114.7	-1.1	484	0.0
	Pondy	372	0	7.8	8.2	-0.4	49	0.0
	Bihar	5304	0	106.1	101.7	-0.4	100	0.0
ER	DVC	3018	0	67.1	-45.3	0.2	30	0.0
	Jharkhand	1287	0	26.1	17.1	-0.2	180	0.0
	Odisha	4576	0	96.0	34.4	3.4	500	0.0
	West Bengal	9188	0	188.9	88.4	1.1	450	0.0
	Sikkim	100	0	1.5	1.2	0.2	40	0.0
NER	Arunachal Pradesh	126	2	2.1	2.5	-0.3	31	0.0
	Assam	1760	154	33.6	26.8	1.0	120	1.1
	Manipur	191	1	2.6	2.3	0.3	55	0.0
	Meghalaya	317	0	5.6	-0.8	0.0	30	0.0
	Mizoram	89	3	1.6	1.2	0.1	35	0.0
	Nagaland	125	2	2.5	2.4	-0.2	30	0.0
	Tripura	267	6	4.7	4.8	-0.4	49	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	36.0	-5.8	-25.4
Day peak (MW)	1836.0	-379.3	-1116.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	238.5	-242.5	49.4	-30.9	-14.1	0.3
Actual(MU)	226.8	-236.5	61.7	-30.2	-16.5	5.3
O/D/U/D(MU)	-11.6	6.0	12.4	0.7	-2.4	5.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3968	15520	7572	2550	82	29692
State Sector	8485	12575	8170	4460	50	33740
Total	12453	28095	15742	7010	131	63431

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	564	1203	463	450	16	2697
Lignite	23	14	46	0	0	83
Hydro	334	40	44	101	30	549
Nuclear	27	31	60	0	0	118
Gas, Naptha & Diesel	29	102	11	0	29	172
RES (Wind, Solar, Biomass & Others)	49	57	250	2	0	357
Total	1026	1447	874	553	75	3976

Share of RES in total generation (%)	4.73	3.92	28.58	0.39	0.05	8.99
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	39.93	8.83	40.48	18.67	39.77	25.77

H. Diversity Factor

All India Demand Diversity Factor	1.045
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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 : 20-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)	
Import/Export of ER (With NR)									
1	765kV	GAYA-VARANASI	D/C	0	352	0.0	4.2	-4.2	
2		SASARAM-FATEHPUR	S/C	223	38	2.7	0.0	2.7	
3		GAYA-BALIA	S/C	0	369	0.0	6.3	-6.3	
4	HVDC	ALIPURDUAR-AGRA	-	0	1802	0.0	31.3	-31.3	
5		PUSAULI B/B	S/C	0	249	0.0	6.1	-6.1	
6	400 kV	PUSAULI-VARANASI	S/C	0	219	0.0	4.7	-4.7	
7		PUSAULI -ALLAHABAD	S/C	0	84	0.0	1.3	-1.3	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	456	0.0	5.9	-5.9	
9		PATNA-BALIA	Q/C	0	620	0.0	11.3	-11.3	
10		BIHARSHARIFF-BALIA	D/C	0	228	0.0	3.7	-3.7	
11		MOTIHARI-GORAKHPUR	D/C	0	303	0.0	6.1	-6.1	
12	220 kV	BIHARSHARIFF-VARANASI	D/C	106	84	0.5	0.0	0.5	
13		PUSAULI-SAHUPURI	S/C	0	170	0.0	3.3	-3.3	
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	53	0	0.0	0.0	0.0
17	KARMANASA-CHANDAULI		S/C	0	0	0.0	0.0	0.0	
ER-NR						3.7	84.1	-80.4	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMAJGARH	Q/C	845	0	12.1	0.0	12.1	
19		NEW RANCHI-DHARAMAJGARH	D/C	1250	0	22.4	0.0	22.4	
20		JHARSUGUDA-DURG	D/C	190	16	2.8	0.0	2.8	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	1005	0	20.4	0.0	20.4	
22		RANCHI-SIPAT	D/C	416	0	7.6	0.0	7.6	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	40	57	0.0	0.3	-0.3	
24		BUDHIPADAR-KORBA	D/C	137	0	2.0	0.0	2.0	
ER-WR						67.3	0.3	67.0	
Import/Export of ER (With SR)									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1563.0	0.0	21.9	-21.9	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	325.0	0.0	7.5	-7.5	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1977.0	0.0	35.2	-35.2	
28	400 kV	TALCHER-I/C	D/C	677.0	209.0	7.7	0.0	7.7	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	64.7	-64.7	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	19	520	0.0	5.8	-6	
31		ALIPURDUAR-BONGAIGAON	D/C	487	0	7.1	0.0	7	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	20	50	0.0	0.3	0	
ER-NER						7.1	6.2	1.0	
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	802	0.0	17.4	-17.4	
NER-NR						0.0	17.4	-17.4	
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1503	0.0	25.6	-25.6	
35		V'CHAL B/B	D/C	450	0	12.2	0.0	12.2	
36		APL -MHG	D/C	0	981	0.0	24.3	-24.3	
37	765 kV	GWALIOR-AGRA	D/C	0	2371	0.0	43.4	-43.4	
38		PHAGI-GWALIOR	D/C	0	1267	0.0	21.4	-21.4	
39		JABALPUR-ORAI	D/C	0	936	0.0	35.5	-35.5	
40		GWALIOR-ORAI	S/C	537	0	10.0	0.0	10.0	
41		SATNA-ORAI	S/C	0	1303	0.0	27.5	-27.5	
42		CHITTORGARH-BANASKANTHA	D/C	374	374	1.0	1.9	0.8	
43	400 kV	ZERDA-KANKROLI	S/C	143	55	1.3	0.1	1.1	
44		ZERDA -BHINMAL	S/C	156	133	1.3	0.3	1.0	
45		V'CHAL -RIHAND	S/C	965	0	22.2	0.0	22.2	
46	220 kV	RAPP-SHUJALPUR	D/C	0	411	0	2	-2	
47		BHANPURA-RANPUR	S/C	5	72	0.0	0.7	-0.7	
48		BHANPURA-MORAK	S/C	0	110	0.0	1.7	-1.7	
49		MEHGAON-AURAIYA	S/C	86	0	0.8	0.0	0.8	
50		MALANPUR-AURAIYA	S/C	45	25	0.1	0.1	0.0	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						48.8	184.7	-134.2	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	985	0.0	16.0	-16.0	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	670	1037	2.6	4.8	-2.2	
55		WARDHA-NIZAMABAD	D/C	0	2159	0.0	27.6	-27.6	
56	400 kV	KOLHAPUR-KUDGI	D/C	804	0	12.5	0.0	12.5	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	64	0.0	1.3	-1.3	
59		XELDEM-AMBEWADI	S/C	0	37	0.8	0.0	0.8	
WR-SR						15.8	49.6	-33.8	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						36.0	
61		NEPAL						-5.8	
62		BANGLADESH						-25.4	