



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: 31st 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 30.07.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-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 30th July 2019, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting

31-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)	55000	42505	40041	21489	2702	161737
Peak Shortage (MW)	1918	0	0	100	192	2210
Energy Met (MU)	1295	961	877	439	51	3623
Hydro Gen (MU)	334	20	52	124	26	556
Wind Gen (MU)	7	163	163	-----	-----	333
Solar Gen (MU)*	25.52	9.7	47.30	1.98	0.02	85
Energy Shortage (MU)	10.1	0.0	0.0	0.3	1.1	11.5
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	59544 22:27	44032 19:28	38696 21:38	22117 19:56	2677 18:58	162802 20:45

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	0.042	0.00	0.17	11.40	11.57	75.61	12.81

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	11576	0	253.8	138.8	-1.9	81	0.0
	Haryana	8924	0	196.4	160.2	-0.7	114	0.0
	Rajasthan	9451	0	197.2	69.8	-1.1	533	0.0
	Delhi	5644	0	115.6	99.6	-0.1	168	0.0
	UP	20863	0	412.5	199.3	-0.2	633	0.0
	Uttarakhand	1855	0	41.7	14.3	0.7	89	0.0
	HP	1450	0	29.8	-2.6	0.5	149	0.0
	J&K	2116	529	42.3	20.2	2.5	499	10.1
WR	Chandigarh	286	0	5.6	6.1	-0.5	14	0.0
	Chhattisgarh	3655	0	83.5	26.3	-2.4	150	0.0
	Gujarat	12723	0	282.0	41.4	0.5	534	0.0
	MP	8290	0	183.7	75.2	-2.3	824	0.0
	Maharashtra	17151	0	368.4	82.6	-0.5	622	0.0
	Goa	541	0	11.3	10.9	-0.2	52	0.0
	DD	321	0	7.2	7.0	0.2	67	0.0
	DNH	787	0	18.4	18.6	-0.2	31	0.0
SR	Essar steel	359	0	6.1	5.5	0.6	393	0.0
	Andhra Pradesh	7256	0	161.8	19.8	0.4	409	0.0
	Telangana	7633	0	156.5	68.1	0.3	455	0.0
	Karnataka	8291	0	167.1	44.3	-0.2	489	0.0
	Kerala	3537	0	70.3	56.2	3.2	333	0.0
	Tamil Nadu	14272	0	313.9	141.6	1.4	440	0.0
	Pondy	382	0	7.7	7.8	-0.1	55	0.0
	Bihar	5419	0	98.9	94.8	-0.2	80	0.0
ER	DVC	2944	0	63.3	-43.8	-0.3	210	0.0
	Jharkhand	1055	100	22.3	15.6	0.2	170	0.3
	Odisha	4333	0	85.9	37.1	0.9	230	0.0
	West Bengal	8580	0	167.7	65.7	5.0	300	0.0
	Sikkim	78	0	0.8	1.3	-0.5	0	0.0
NER	Arunachal Pradesh	118	6	2.2	2.7	-0.5	41	0.0
	Assam	1729	59	33.1	27.7	0.4	135	1.0
	Manipur	152	7	2.5	2.3	0.2	25	0.0
	Meghalaya	302	8	5.5	-0.1	-0.2	37	0.0
	Mizoram	84	6	1.8	1.0	0.5	9	0.0
	Nagaland	128	4	2.2	2.1	-0.4	40	0.0
	Tripura	276	14	4.2	3.9	-0.5	61	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	42.7	-5.1	-25.5
Day peak (MW)	1884.3	-353.6	-1133.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	318.3	-301.3	47.2	-54.9	-9.3	0.0
Actual(MU)	313.1	-327.6	50.8	-25.8	-10.1	0.4
O/D/U/D(MU)	-5.3	-26.3	3.6	29.1	-0.8	0.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4616	18265	8512	2950	132	34474
State Sector	9720	19644	9750	4720	50	43884
Total	14336	37909	18262	7670	181	78358

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	535	1034	406	363	11	2349
Lignite	20	12	42	0	0	75
Hydro	334	20	52	124	26	556
Nuclear	27	31	60	0	0	118
Gas, Naptha & Diesel	30	39	15	0	29	112
RES (Wind, Solar, Biomass & Others)	49	180	243	2	0	474
Total	996	1315	817	489	66	3684

Share of RES in total generation (%)	4.92	13.68	29.71	0.41	0.03	12.86
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	41.22	17.53	43.42	25.75	38.97	31.16

H. Diversity Factor

All India Demand Diversity Factor	1.026
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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 : 31-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	216	195	0.0	1.4	-1.4	
2		SASARAM-FATEHPUR	S/C	304	0	3.7	0.0	3.7	
3		GAYA-BALIA	S/C	0	380	0.0	5.9	-5.9	
4		ALIPURDUAR-AGRA	-	0	1604	0.0	38.6	-38.6	
5		PUSAULI B/B	S/C	0	397	0.0	9.5	-9.5	
6	400 kV	PUSAULI-VARANASI	S/C	0	308	0.0	6.5	-6.5	
7		PUSAULI -ALLAHABAD	S/C	0	155	0.0	2.8	-2.8	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	563	0.0	6.8	-6.8	
9		PATNA-BALIA	Q/C	0	570	0.0	10.3	-10.3	
10		BIHARSHARIFF-BALIA	D/C	0	258	0.0	4.3	-4.3	
11		MOTHARI-GORAKHPUR	D/C	0	275	0.0	4.4	-4.4	
12	220 kV	BIHARSHARIFF-VARANASI	D/C	216	40	2.5	0.0	2.5	
13		PUSAULI-SAHUPURI	S/C	0	150	0.0	2.6	-2.6	
14		132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15			GARWAH-RIHAND	S/C	30	0	0.5	0.0	0.5
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	
ER-NR						6.7	93.0	-86.3	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	2022	0	35.9	0.0	35.9	
19		NEW RANCHI-DHARAMJAIGARH	D/C	1329	0	21.5	0.0	21.5	
20		JHARSUGUDA-DURG	D/C	417	0	8.0	0.0	8.0	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	589	0	10.6	0.0	10.6	
22		RANCHI-SIPAT	D/C	516	0	10.1	0.0	10.1	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	81	7	0.8	0.0	0.8	
24		BUDHIPADAR-KORBA	D/C	244	0	5.6	0.0	5.6	
ER-WR						92.5	0.0	92.5	
Import/Export of ER (With SR)									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1224.0	0.0	16.9	-16.9	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	428.0	0.0	8.8	-8.8	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1591.0	0.0	27.6	-27.6	
28	400 kV	TALCHER-I/C	D/C	0.0	1046.0	0.0	11.2	-11.2	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	53.2	-53.2	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	685	0.0	12.5	-13	
31		ALIPURDUAR-BONGAIGAON	D/C	162	134	0.4	0.0	0	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	111	0.0	1.9	-2	
ER-NER						0.4	14.4	-14.0	
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	1004	0	0.0	26.3	-26.3	
NER-NR						0.0	26.3	-26.3	
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2513	0.0	58.9	-58.9	
35		V'CHAL B/B	D/C	452	0	9.8	0.0	9.8	
36		APL -MHG	D/C	0	1730	0.0	32.3	-32.3	
37	765 kV	GWALIOR-AGRA	D/C	0	2720	0.0	48.5	-48.5	
38		PHAGI-GWALIOR	D/C	0	940	0.0	18.0	-18.0	
39		JABALPUR-ORAI	D/C	0	1050	0.0	37.9	-37.9	
40		GWALIOR-ORAI	S/C	338	0	6.8	0.0	6.8	
41		SATNA-ORAI	S/C	0	1407	0.0	28.9	-28.9	
42		CHITTORGARH-BANASKANTHA	D/C	0	1244	0.0	13.1	13.1	
43	400 kV	ZERDA-KANKROLI	S/C	0	212	0.0	2.6	-2.6	
44		ZERDA -BHINMAL	S/C	14	271	0.0	3.3	-3.3	
45		V'CHAL -RIHAND	S/C	970	0	22.3	0.0	22.3	
46		RAPP-SHUJALPUR	D/C	0	415	0	3	-3	
47	220 kV	BHANPURA-RANPUR	S/C	0	81	0.0	1.2	-1.2	
48		BHANPURA-MORAK	S/C	0	142	0.0	2.2	-2.2	
49		MEHGAON-AURAIYA	S/C	77	0	0.9	0.0	0.9	
50		MALANPUR-AURAIYA	S/C	36	24	0.2	0.1	0.1	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						40.1	249.6	-183.3	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	385	505	0.0	1.3	-1.3	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	273	1199	0.0	10.7	-10.7	
55		WARDHA-NIZAMABAD	D/C	14	1824	0.0	27.4	-27.4	
56	400 kV	KOLHAPUR-KUDGI	D/C	782	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	62	0.0	1.1	-1.1	
59		XELDEM-AMBEWADI	S/C	0	36	0.6	0.0	0.6	
WR-SR						13.2	40.5	-27.3	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						42.7	
61		NEPAL						-5.1	
62		BANGLADESH						-25.5	