



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: 23rd 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 22.07.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-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 22nd July 2019, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting

23-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)	56382	49840	39735	22119	2619	170695
Peak Shortage (MW)	2186	0	0	0	208	2394
Energy Met (MU)	1343	1156	887	492	50	3928
Hydro Gen (MU)	340	33	49	120	30	573
Wind Gen (MU)	8	32	147	-----	-----	188
Solar Gen (MU)*	26.35	22.77	64.79	2.02	0.03	116
Energy Shortage (MU)	14.8	1.1	0.0	0.0	1.9	17.8
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	60554 22:54	50978 15:40	37196 07:40	23169 00:00	2589 19:28	171005 20:25

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	0.053	0.00	0.72	14.59	15.31	72.25	12.44

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	11231	0	245.9	133.5	-2.2	202	0.0
	Haryana	9349	0	194.3	150.2	0.0	222	0.0
	Rajasthan	11013	0	242.2	74.2	-0.2	497	0.0
	Delhi	5767	0	116.6	100.0	-0.5	196	0.0
	UP	19865	0	422.1	199.9	2.4	1041	3.7
	Uttarakhand	1935	0	42.9	18.9	0.9	148	1.0
	HP	1500	0	30.7	-0.5	3.0	474	0.0
	J&K	2135	534	42.4	19.2	2.6	402	10.1
WR	Chandigarh	324	0	6.3	6.4	-0.2	28	0.0
	Chhattisgarh	4660	0	110.2	45.7	0.6	372	0.0
	Gujarat	16213	0	342.2	81.6	8.1	1121	1.1
	MP	9928	0	219.0	119.5	5.4	948	0.0
	Maharashtra	19663	0	441.2	115.1	-1.1	773	0.0
	Goa	541	0	11.4	10.7	0.1	70	0.0
	DD	338	0	7.5	6.9	0.6	100	0.0
	DNH	820	0	18.9	18.5	0.4	147	0.0
SR	Essar steel	299	0	5.8	6.3	-0.5	227	0.0
	Andhra Pradesh	7650	0	165.3	31.7	-0.8	498	0.0
	Telangana	8493	0	184.1	90.4	-0.2	496	0.0
	Karnataka	8751	0	171.9	59.3	-1.8	490	0.0
	Kerala	2992	0	60.0	41.0	1.4	208	0.0
	Tamil Nadu	14099	0	297.9	117.1	0.5	499	0.0
	Pondy	357	0	7.7	8.0	-0.3	36	0.0
	Bihar	5500	0	104.2	99.9	0.0	40	0.0
ER	DVC	3101	0	66.6	-42.3	-0.6	10	0.0
	Jharkhand	1204	0	27.1	17.8	-0.3	60	0.0
	Odisha	4808	0	98.7	40.2	2.7	400	0.0
	West Bengal	9306	0	194.3	89.1	1.6	300	0.0
	Sikkim	97	0	1.3	1.1	0.2	25	0.0
NER	Arunachal Pradesh	126	2	2.2	2.9	-0.7	5	0.0
	Assam	1645	146	29.5	22.3	1.3	133	1.9
	Manipur	158	3	2.6	2.4	0.2	15	0.0
	Meghalaya	319	0	5.8	-0.6	0.0	40	0.0
	Mizoram	92	2	1.9	1.4	-0.3	12	0.0
	Nagaland	132	4	2.2	2.2	-0.5	31	0.0
	Tripura	281	9	5.6	5.6	0.6	83	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	36.1	-3.4	-26.3
Day peak (MW)	1704.2	-60.8	-1128.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	295.3	-236.0	-12.5	-35.9	-11.0	-0.1
Actual(MU)	297.1	-240.3	5.1	-43.4	-15.3	3.1
O/D/U/D(MU)	1.8	-4.3	17.6	-7.6	-4.3	3.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4428	15100	6002	3050	132	28712
State Sector	8155	13945	7740	4620	50	34510
Total	12583	29045	13742	7670	181	63221

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	603	1193	490	447	13	2747
Lignite	18	10	50	0	0	79
Hydro	340	33	49	120	30	573
Nuclear	27	31	60	0	0	118
Gas, Naptha & Diesel	24	64	11	0	28	127
RES (Wind, Solar, Biomass & Others)	48	59	248	2	0	358
Total	1060	1391	909	570	70	4000

Share of RES in total generation (%)	4.50	4.27	27.32	0.36	0.04	8.94
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	39.15	8.87	39.36	21.48	42.00	26.20

H. Diversity Factor

All India Demand Diversity Factor	1.020
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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 : 23-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	375	0.0	4.5	-4.5	
2		SASARAM-FATEHPUR	S/C	219	106	2.6	0.0	2.6	
3		GAYA-BALIA	S/C	0	371	0.0	6.6	-6.6	
4		ALIPURDUAR-AGRA	-	0	2000	0.0	39.5	-39.5	
5		PUSAULI B/B	S/C	2	249	0.0	5.8	-5.8	
6	400 kV	PUSAULI-VARANASI	S/C	0	212	0.0	4.3	-4.3	
7		PUSAULI -ALLAHABAD	S/C	7	104	0.0	1.3	-1.3	
8		MUZAFFARPUR-GORAKHPUR	D/C	13	563	0.0	8.1	-8.1	
9		PATNA-BALIA	Q/C	0	592	0.0	12.5	-12.5	
10		BIHARSHARIFF-BALIA	D/C	0	254	0.0	4.5	-4.5	
11		MOTIHARI-GORAKHPUR	D/C	0	323	0.0	6.3	-6.3	
12	220 kV	BIHARSHARIFF-VARANASI	D/C	67	103	0.6	0.0	0.6	
13		PUSAULI-SAHUPURI	S/C	0	174	0.0	3.4	-3.4	
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	
ER-NR						3.8	96.8	-93.0	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMAJGARH	Q/C	1201	0	14.0	0.0	14.0	
19		NEW RANCHI-DHARAMAJGARH	D/C	1413	0	26.5	0.0	26.5	
20		JHARSUGUDA-DURG	D/C	327	1	4.6	0.0	4.6	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	94	311	0.0	1.3	-1.3	
22		RANCHI-SIPAT	D/C	450	0	7.1	0.0	7.1	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	2	0.0	0.0	0.0	
24		BUDHIPADAR-KORBA	D/C	79	0	1.3	0.0	1.3	
ER-WR						53.5	1.3	52.2	
Import/Export of ER (With SR)									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1060.0	0.0	12.2	-12.2	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	428.0	0.0	8.7	-8.7	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	984.0	0.0	18.3	-18.3	
28	400 kV	TALCHER-I/C	D/C	1276.0	0.0	21.8	0.0	21.8	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	39.1	-39.1	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	694	0.0	10.6	-11	
31		ALIPURDUAR-BONGAIGAON	D/C	495	76	4.6	0.0	5	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	6	95	0.0	1.1	-1	
ER-NER						4.6	11.6	-7.0	
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	1004	0.0	23.9	-23.9	
NER-NR						0.0	23.9	-23.9	
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2009	0.0	38.3	-38.3	
35		V'CHAL B/B	D/C	52	50	1.3	0.0	1.2	
36		APL -MHG	D/C	0	1454	0.0	33.4	-33.4	
37	765 kV	GWALIOR-AGRA	D/C	0	2578	0.0	46.7	-46.7	
38		PHAGI-GWALIOR	D/C	0	1241	0.0	22.8	-22.8	
39		JABALPUR-ORAI	D/C	0	1090	0.0	40.3	-40.3	
40		GWALIOR-ORAI	S/C	493	0	10.1	0.0	10.1	
41		SATNA-ORAI	S/C	0	1435	0.0	29.4	-29.4	
42		CHITTORGARH-BANASKANTHA	D/C	2	627	4.3	0.0	4.3	
43	400 kV	ZERDA-KANKROLI	S/C	60	110	0.4	0.6	-0.3	
44		ZERDA -BHINMAL	S/C	30	237	0.0	1.6	-1.6	
45		V'CHAL -RIHAND	S/C	968	0	22.5	0.0	22.5	
46		RAPP-SHUJALPUR	D/C	0	382	0	3	-3	
47	220 kV	BHANPURA-RANPUR	S/C	0	72	0.0	0.9	-0.9	
48		BHANPURA-MORAK	S/C	0	129	0.0	2.0	-2.0	
49		MEHGAON-AURAIYA	S/C	74	0	0.9	0.0	0.9	
50		MALANPUR-AURAIYA	S/C	35	21	0.1	0.1	0.0	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						39.5	218.8	-179.4	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	189	512	0.2	5.5	-5.4	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	1201	605	0.0	9.6	-9.6	
55		WARDHA-NIZAMABAD	D/C	195	1425	0.0	12.7	-12.7	
56	400 kV	KOLHAPUR-KUDGI	D/C	1234	0	21.7	0.0	21.7	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	60	0.0	1.1	-1.1	
59		XELDEM-AMBEWADI	S/C	0	34	0.6	0.0	0.6	
WR-SR						22.5	28.9	-6.4	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						36.1	
61		NEPAL						-3.4	
62		BANGLADESH						-26.3	