



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: 18th 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 17.07.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th 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

18-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)	50223	49926	41446	21600	2652	165847
Peak Shortage (MW)	1733	0	0	0	189	1922
Energy Met (MU)	1128	1196	972	466	48	3810
Hydro Gen (MU)	309	25	54	118	31	537
Wind Gen (MU)	42	113	126	-----	-----	281
Solar Gen (MU)*	21.16	21	73.05	2.06	-----	117
Energy Shortage (MU)	10.4	0.0	0.0	0.0	1.3	11.7
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	53903 22:42	52751 15:01	42763 10:23	22744 23:07	2698 20:04	171730 22:35

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	0.074	0.30	2.37	18.23	20.90	67.35	11.75

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	7308	0	147.9	115.5	-2.7	53	0.0
	Haryana	7532	0	147.1	126.4	-2.2	190	0.0
	Rajasthan	11632	0	261.6	70.8	1.0	641	0.0
	Delhi	4826	0	91.6	85.8	-0.7	138	0.0
	UP	18149	1060	363.8	156.5	1.0	750	0.0
	Uttarakhand	1811	0	39.1	14.6	0.3	176	0.1
	HP	1413	0	29.1	-2.9	0.1	58	0.1
	J&K	2172	543	43.0	19.7	1.8	318	10.3
WR	Chandigarh	235	0	4.7	4.9	-0.3	36	0.0
	Chhattisgarh	4551	0	105.8	47.9	0.1	294	0.0
	Gujarat	16458	0	372.6	82.7	4.8	1363	0.0
	MP	9634	0	216.6	109.6	0.0	567	0.0
	Maharashtra	20417	0	457.9	123.3	0.5	1468	0.0
	Goa	541	0	11.4	11.1	-0.3	46	0.0
	DD	342	0	7.7	7.1	0.6	112	0.0
	DNH	797	0	18.8	19.1	-0.3	138	0.0
SR	Essar steel	306	0	5.3	5.6	-0.3	324	0.0
	Andhra Pradesh	8716	0	181.9	28.5	5.1	1161	0.0
	Telangana	8739	0	185.7	81.6	0.9	490	0.0
	Karnataka	10496	0	202.6	69.5	1.1	620	0.0
	Kerala	3459	0	69.2	57.7	2.3	297	0.0
	Tamil Nadu	14178	0	324.5	142.0	0.0	588	0.0
	Pondy	413	0	8.4	8.6	-0.2	41	0.0
ER	Bihar	5233	0	97.7	95.2	-1.4	380	0.0
	DVC	3031	0	65.9	-34.7	-2.1	345	0.0
	Jharkhand	1222	0	25.6	17.5	-1.3	180	0.0
	Odisha	4019	0	91.6	36.0	-0.6	412	0.0
	West Bengal	9112	0	183.8	83.8	4.1	465	0.0
	Sikkim	82	0	1.0	1.2	-0.1	20	0.0
NER	Arunachal Pradesh	116	2	2.4	2.9	-0.5	7	0.0
	Assam	1652	148	28.4	22.3	0.7	146	1.2
	Manipur	168	3	2.5	2.4	0.1	18	0.0
	Meghalaya	315	0	5.7	-0.9	0.3	47	0.0
	Mizoram	91	2	1.8	1.3	0.4	47	0.0
	Nagaland	127	3	2.3	2.4	-0.5	31	0.0
	Tripura	285	9	5.3	4.4	0.3	47	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	36.6	-3.6	-24.7
Day peak (MW)	1891.5	-280.6	-1116.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	213.3	-217.3	47.4	-24.9	-18.8	-0.4
Actual(MU)	191.0	-221.7	74.2	-29.3	-19.1	-4.9
O/D/U/D(MU)	-22.3	-4.4	26.8	-4.3	-0.3	-4.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4919	16576	8172	2940	82	32689
State Sector	11470	13949	6910	4460	50	36839
Total	16389	30525	15082	7400	131	69527

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	447	1171	506	413	14	2549
Lignite	21	10	41	0	0	72
Hydro	309	25	54	118	31	537
Nuclear	27	31	60	0	0	118
Gas, Naptha & Diesel	16	50	12	0	29	107
RES (Wind, Solar, Biomass & Others)	79	140	232	2	0	452
Total	899	1426	905	533	74	3836

Share of RES in total generation (%)	8.74	9.80	25.62	0.39	0.04	11.79
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	46.14	13.72	38.21	22.59	42.19	28.87

H. Diversity Factor

All India Demand Diversity Factor	1.018
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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 : 18-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	199	208	0.3	0.0	0.3
2		SASARAM-FATEHPUR	S/C	260	0	3.8	0.0	3.8
3		GAYA-BALIA	S/C	0	362	0.0	4.4	-4.4
4	HVDC	ALIPURDUAR-AGRA	-	0	2001	0.0	39.5	-39.5
5		PUSAULI B/B	S/C	0	248	0.0	6.0	-6.0
6	400 kV	PUSAULI-VARANASI	S/C	0	206	0.0	4.4	-4.4
7		PUSAULI -ALLAHABAD	S/C	0	87	0.0	1.4	-1.4
8		MUZAFFARPUR-GORAKHPUR	D/C	153	485	0.0	6.3	-6.3
9		PATNA-BALIA	Q/C	33	287	0.0	4.4	-4.4
10		BIHARSHARIFF-BALIA	D/C	22	212	0.0	3.4	-3.4
11		MOTIHARI-GORAKHPUR	D/C	0	180	0.0	2.3	-2.3
12		BIHARSHARIFF-VARANASI	D/C	211	12	2.2	0.0	2.2
13		220 kV	PUSAULI-SAHUPURI	S/C	0	207	0.0	3.9
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						6.8	75.9	-69.1
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1654	0	26.3	0.0	26.3
19		NEW RANCHI-DHARAMJAIGARH	D/C	1269	0	20.5	0.0	20.5
20		JHARSUGUDA-DURG	D/C	259	0	3.5	0.0	3.5
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	1126	148	12.8	0.0	12.8
22		RANCHI-SIPAT	D/C	441	0	7.0	0.0	7.0
23	220 kV	BUDHIPADAR-RAIGARH	S/C	32	120	0.0	1.0	-1.0
24		BUDHIPADAR-KORBA	D/C	167	0	2.4	0.0	2.4
ER-WR						72.4	1.0	71.4
Import/Export of ER (With SR)								
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1634.0	0.0	22.0	-22.0
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	680.0	0.0	9.6	-9.6
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1991.0	0.0	44.3	-44.3
28	400 kV	TALCHER-I/C	D/C	807.0	311.0	0.0	1.6	-1.6
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	75.9	-75.9
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	690	0.0	9.1	-9
31		ALIPURDUAR-BONGAIGAON	D/C	505	0	7.3	0.0	7
32	220 kV	ALIPURDUAR-SALAKATI	D/C	7	96	0.0	0.5	0
ER-NER						7.3	9.5	-2.2
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	1004	0.0	23.3	-23.3
NER-NR						0.0	23.3	-23.3
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	501	0.0	12.1	-12.1
35		V'CHAL B/B	D/C	452	0	10.4	0.0	10.4
36		APL -MHG	D/C	0	1170	0.0	29.1	-29.1
37	765 kV	GWALIOR-AGRA	D/C	0	2176	0.0	33.0	-33.0
38		PHAGI-GWALIOR	D/C	0	1038	0.0	17.1	-17.1
39		JABALPUR-ORAI	D/C	0	866	0.0	29.1	-29.1
40		GWALIOR-ORAI	S/C	418	0	8.1	0.0	8.1
41		SATNA-ORAI	S/C	0	1286	0.0	25.2	-25.2
42		CHITTORGARH-BANASKANTHA	D/C	418	598	0.0	2.3	2.3
43		ZERDA-KANKROLI	S/C	197	65	1.8	0.2	1.6
44		400 kV	ZERDA -BHINMAL	S/C	381	35	4.3	0.0
45	V'CHAL -RIHAND		S/C	965	0	22.5	0.0	22.5
46	220 kV	RAPP-SHUJALPUR	D/C	100	304	0	1	-1
47		BHANPURA-RANPUR	S/C	33	70	0.1	0.4	-0.3
48		BHANPURA-MORAK	S/C	0	125	0.0	2.0	-2.0
49		MEHGAON-AURAIYA	S/C	100	3	0.9	0.0	0.9
50		MALANPUR-AURAIYA	S/C	63	27	0.3	0.1	0.2
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						48.3	151.5	-98.6
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	1002	0.0	14.7	-14.7
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	481	1298	0.0	9.3	-9.3
55		WARDHA-NIZAMABAD	D/C	0	2220	0.0	31.2	-31.2
56	400 kV	KOLHAPUR-KUDGI	D/C	788	46	9.9	0.0	9.9
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	0	83	0.0	1.5	-1.5
59		XELDEM-AMBEWADI	S/C	0	48	0.9	0.0	0.9
WR-SR						10.7	56.7	-46.0
TRANSNATIONAL EXCHANGE								
60		BHUTAN						36.6
61		NEPAL						-3.6
62		BANGLADESH						-24.7