



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: 16th 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 15.07.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th July 2019, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting

16-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)	48725	49049	40667	20988	2397	161826
Peak Shortage (MW)	416	0	0	0	270	686
Energy Met (MU)	1180	1144	923	473	42	3763
Hydro Gen (MU)	342	17	40	113	31	542
Wind Gen (MU)	69	187	166	-----	-----	422
Solar Gen (MU)*	21.10	19.6	75.62	2.12	0.02	118
Energy Shortage (MU)	15.0	0.0	0.0	0.0	2.7	17.7
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	53888 00:16	51375 15:50	41293 19:28	22664 22:37	2418 19:57	166028 19:52

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	0.047	0.00	0.00	2.67	2.67	61.82	35.51

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	7593	0	166.0	119.4	-3.1	48	0.0
	Haryana	8149	0	175.3	136.2	-1.6	342	0.0
	Rajasthan	11917	0	256.5	67.8	-0.1	414	0.0
	Delhi	5965	0	118.5	100.1	-1.9	121	0.0
	UP	18136	0	353.6	154.9	-1.2	661	5.5
	Uttarakhand	1827	0	37.8	13.2	0.1	160	0.0
	HP	1384	0	28.3	-3.0	-0.5	175	0.0
	J&K	2084	521	39.9	18.4	0.0	155	9.5
	Chandigarh	222	0	4.4	5.3	-0.9	8	0.0
	WR	Chhattisgarh	4441	0	104.7	37.3	-0.8	267
Gujarat		16090	0	362.2	71.2	1.6	655	0.0
MP		9267	0	202.0	86.1	0.0	435	0.0
Maharashtra		19267	0	432.0	114.0	0.3	520	0.0
Goa		541	0	11.3	11.0	-0.3	81	0.0
DD		332	0	7.4	7.0	0.4	37	0.0
DNH		796	0	18.7	18.8	-0.1	75	0.0
Essar steel		343	0	5.8	5.7	0.1	310	0.0
Andhra Pradesh		8348	0	172.3	17.1	0.7	824	0.0
Telangana		8105	0	174.7	73.0	0.1	614	0.0
SR	Karnataka	10179	0	194.8	50.4	1.6	645	0.0
	Kerala	3667	0	70.0	59.2	2.5	453	0.0
	Tamil Nadu	14156	0	303.6	123.4	0.2	1135	0.0
	Pondy	365	0	7.6	7.8	-0.2	50	0.0
	Bihar	4894	0	89.3	87.8	0.0	50	0.0
ER	DVC	3106	0	67.7	-33.7	0.4	180	0.0
	Jharkhand	1216	0	26.4	17.1	-0.1	97	0.0
	Odisha	4971	0	107.6	43.4	4.1	390	0.0
	West Bengal	9116	0	181.7	77.7	4.7	400	0.0
	Sikkim	59	0	0.7	1.0	-0.4	5	0.0
NER	Arunachal Pradesh	129	3	2.4	2.7	-0.3	25	0.0
	Assam	1423	250	24.5	17.5	0.8	131	2.7
	Manipur	164	2	2.5	2.3	0.2	18	0.0
	Meghalaya	305	0	5.1	-1.3	-0.4	43	0.0
	Mizoram	95	1	1.7	1.3	0.2	5	0.0
	Nagaland	134	1	2.1	2.1	-0.1	32	0.0
	Tripura	218	5	3.9	3.1	-0.2	43	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	43.2	-2.3	-25.2
Day peak (MW)	1891.8	-112.0	-1077.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	235.0	-228.5	34.3	-23.9	-16.4	0.6
Actual(MU)	199.6	-228.7	56.1	-7.6	-17.2	2.2
O/D/U/D(MU)	-35.5	-0.2	21.9	16.3	-0.8	1.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3789	17421	8142	2975	306	32633
State Sector	10810	14380	7560	4780	50	37580
Total	14599	31801	15702	7755	356	70212

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	470	1075	451	388	5	2389
Lignite	18	14	35	0	0	66
Hydro	342	17	40	113	31	542
Nuclear	27	30	54	0	0	112
Gas, Naptha & Diesel	29	41	12	0	29	111
RES (Wind, Solar, Biomass & Others)	107	215	273	2	0	598
Total	994	1392	865	503	64	3818

Share of RES in total generation (%)	10.79	15.44	31.59	0.43	0.03	15.66
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	47.94	18.80	42.49	22.86	47.59	32.77

H. Diversity Factor

All India Demand Diversity Factor	1.034
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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 : 16-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	136	0.9	0.0	0.9	
2		SASARAM-FATEHPUR	S/C	257	15	2.9	0.0	2.9	
3		GAYA-BALIA	S/C	0	231	0.0	3.5	-3.5	
4	HVDC	ALIPURDUAR-AGRA	-	0	1754	0.0	41.6	-41.6	
5		PUSAULI B/B	S/C	0	98	0.0	2.4	-2.4	
6	400 kV	PUSAULI-VARANASI	S/C	0	133	0.0	2.3	-2.3	
7		PUSAULI -ALLAHABAD	S/C	25	33	0.0	0.1	-0.1	
8		MUZAFFARPUR-GORAKHPUR	D/C	180	424	0.0	3.3	-3.3	
9		PATNA-BALIA	Q/C	0	510	0.0	5.6	-5.6	
10		BIHARSHARIFF-BALIA	D/C	34	173	0.0	1.9	-1.9	
11		MOTIHARI-GORAKHPUR	D/C	0	253	0.0	4.0	-4.0	
12	220 kV	BIHARSHARIFF-VARANASI	D/C	189	51	2.2	0.0	2.2	
13		PUSAULI-SAHUPURI	S/C	0	208	0.0	3.7	-3.7	
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						6.6	68.5	-61.9	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	2042	0	40.0	0.0	40.0	
19		NEW RANCHI-DHARAMJAIGARH	D/C	1324	0	21.8	0.0	21.8	
20		JHARSUGUDA-DURG	D/C	397	0	6.2	0.0	6.2	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	580	0	8.0	0.0	8.0	
22		RANCHI-SIPAT	D/C	510	0	9.9	0.0	9.9	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	112	0.0	1.7	-1.7	
24		BUDHIPADAR-KORBA	D/C	233	0	4.3	0.0	4.3	
ER-WR						90.2	1.7	88.4	
Import/Export of ER (With SR)									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1614.0	0.0	25.6	-25.6	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	317.0	0.0	7.4	-7.4	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1783.0	0.0	33.9	-33.9	
28	400 kV	TALCHER-I/C	D/C	262.0	926.0	0.0	2.6	-2.6	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	66.9	-66.9	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	523	0.0	6.4	-6	
31		ALIPURDUAR-BONGAIGAON	D/C	446	0	8.2	0.0	8	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	11	72	0.0	0.4	0	
ER-NER						8.2	6.8	1.4	
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	803	0.0	18.5	-18.5	
NER-NR						0.0	18.5	-18.5	
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1005	0.0	23.5	-23.5	
35		V'CHAL B/B	D/C	455	0	12.2	0.0	12.2	
36		APL -MHG	D/C	0	1169	0.0	29.1	-29.1	
37	765 kV	GWALIOR-AGRA	D/C	0	2215	0.0	35.5	-35.5	
38		PHAGI-GWALIOR	D/C	0	953	0.0	14.8	-14.8	
39		JABALPUR-ORAI	D/C	0	839	0.0	27.5	-27.5	
40		GWALIOR-ORAI	S/C	336	0	6.6	0.0	6.6	
41		SATNA-ORAI	S/C	0	1299	0.0	26.0	-26.0	
42		CHITTORGARH-BANASKANTHA	D/C	0	718	0.0	9.4	9.4	
43	400 kV	ZERDA-KANKROLI	S/C	197	35	1.3	0.0	1.3	
44		ZERDA -BHINMAL	S/C	300	0	4.9	0.0	4.9	
45		V'CHAL -RIHAND	S/C	959	0	22.1	0.0	22.1	
46		RAPP-SHUJALPUR	D/C	81	310	0	2	-2	
47	220 kV	BHANPURA-RANPUR	S/C	22	60	0.1	0.4	-0.4	
48		BHANPURA-MORAK	S/C	0	194	0.0	2.9	-2.9	
49		MEHGAON-AURAIYA	S/C	85	0	0.9	0.0	0.9	
50		MALANPUR-AURAIYA	S/C	48	25	0.2	0.1	0.1	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						48.2	171.7	-104.7	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	94	505	9.1	3.7	5.4	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	785	1132	0.0	6.6	-6.6	
55		WARDHA-NIZAMABAD	D/C	0	2108	0.0	30.2	-30.2	
56	400 kV	KOLHAPUR-KUDGI	D/C	976	0	10.9	0.0	10.9	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	82	0.0	1.6	-1.6	
59		XELDEM-AMBEWADI	S/C	0	47	0.9	0.0	0.9	
WR-SR						20.9	42.0	-21.2	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						43.2	
61		NEPAL						-2.3	
62		BANGLADESH						-25.2	