



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: 29th 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 28.07.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28th July 2019, is available at the NLDC website.

धन्यवाद,

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)	49838	42268	35774	19390	2621	149891
Peak Shortage (MW)	476	0	0	0	226	702
Energy Met (MU)	1093	993	827	415	50	3378
Hydro Gen (MU)	336	17	41	114	28	536
Wind Gen (MU)	12	184	162	-----	-----	358
Solar Gen (MU)*	15.20	9.02	39.55	2.03	0.04	66
Energy Shortage (MU)	8.9	0.0	0.0	0.0	1.4	10.2
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	53123 22:20	44541 09:50	32798 09:33	20839 21:11	2537 19:59	152565 20:20

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	0.034	0.00	0.00	1.27	1.27	67.85	30.88

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	9891	0	210.9	139.0	-1.7	59	0.0
	Haryana	7297	0	153.9	124.0	-0.5	213	0.0
	Rajasthan	7463	0	159.3	51.2	-8.0	289	0.0
	Delhi	5048	0	98.9	83.1	-0.7	132	0.0
	UP	19412	0	364.1	165.0	0.2	643	0.0
	Uttarakhand	1762	0	37.4	10.1	0.3	129	0.0
	HP	1265	0	26.3	-3.4	-2.2	12	0.0
	J&K	1961	490	37.3	17.1	1.4	271	8.9
	Chandigarh	261	0	4.9	5.9	-1.0	0	0.0
WR	Chhattisgarh	3923	0	93.7	30.4	-1.3	219	0.0
	Gujarat	14107	0	314.9	86.9	-0.4	692	0.0
	MP	7907	0	175.8	70.2	-3.0	368	0.0
	Maharashtra	16420	0	364.8	74.0	1.1	598	0.0
	Goa	541	0	11.3	10.0	0.7	56	0.0
	DD	301	0	7.0	6.6	0.5	29	0.0
	DNH	792	0	18.7	18.8	-0.1	111	0.0
	Essar steel	373	0	7.0	6.5	0.4	311	0.0
	SR	Andhra Pradesh	6897	0	151.0	20.3	0.3	479
Telangana		7551	0	161.1	78.2	1.1	692	0.0
Karnataka		8439	0	160.8	37.0	0.3	712	0.0
Kerala		3178	4	62.2	49.6	2.2	270	0.0
Tamil Nadu		12738	0	284.4	112.0	-0.2	518	0.0
Pondy		345	-1	7.4	7.6	-0.2	46	0.0
ER	Bihar	5367	0	91.4	88.3	-1.4	150	0.0
	DVC	2839	0	60.8	-31.6	-0.7	200	0.0
	Jharkhand	1000	0	21.8	14.1	-1.6	100	0.0
	Odisha	4283	0	89.0	37.6	2.7	400	0.0
	West Bengal	7790	0	151.3	57.5	0.7	300	0.0
	Sikkim	57	0	0.5	1.0	-0.5	10	0.0
NER	Arunachal Pradesh	131	2	2.3	2.4	-0.1	36	0.0
	Assam	1631	168	30.9	25.2	0.2	135	1.1
	Manipur	176	1	2.6	2.5	0.1	18	0.0
	Meghalaya	310	0	5.5	1.2	-0.2	111	0.0
	Mizoram	89	1	1.6	1.2	0.1	16	0.0
	Nagaland	128	2	2.3	2.0	0.1	1	0.0
	Tripura	269	2	4.8	4.5	-0.1	40	0.2

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	37.5	-4.0	-23.8
Day peak (MW)	1905.9	-233.0	-1046.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	243.8	-223.2	33.4	-42.1	-11.8	0.1
Actual(MU)	226.2	-243.8	48.7	-21.1	-10.7	-0.7
O/D/U/D(MU)	-17.6	-20.7	15.3	21.0	1.2	-0.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5316	18105	9462	3010	82	35974
State Sector	11280	17299	9070	4400	50	42099
Total	16596	35404	18532	7410	131	78073

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	420	938	384	337	10	2089
Lignite	13	16	43	0	0	73
Hydro	336	17	41	114	28	536
Nuclear	27	31	60	0	0	119
Gas, Naptha & Diesel	29	38	16	0	29	111
RES (Wind, Solar, Biomass & Others)	64	201	243	2	0	511
Total	890	1241	787	453	67	3438

Share of RES in total generation (%)	7.17	16.22	30.91	0.45	0.06	14.85
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	48.03	20.08	43.76	25.65	41.68	33.89

H. Diversity Factor

All India Demand Diversity Factor	1.008
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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 :	29-Jul-19
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
								Import=(+ve) /Export =(-ve) for NET (MU)	
Import/Export of ER (With NR)									
1	765kV	GAYA-VARANASI	D/C	217	181	0.0	0.7	-0.7	
2		SASARAM-FATEHPUR	S/C	217	31	2.2	0.0	2.2	
3		GAYA-BALIA	S/C	0	351	0.0	4.9	-4.9	
4	HVDC	ALIPURDUAR-AGRA	-	0	1602	0.0	40.3	-40.3	
5		PUSAULI B/B	S/C	0	123	0.0	3.1	-3.1	
6	400 kV	PUSAULI-VARANASI	S/C	0	158	0.0	3.0	-3.0	
7		PUSAULI -ALLAHABAD	S/C	26	34	0.0	0.0	0.0	
8		MUZAFFARPUR-GORAKHPUR	D/C	13	552	0.0	7.2	-7.2	
9		PATNA-BALIA	Q/C	0	531	0.0	7.8	-7.8	
10		BIHARSHARIFF-BALIA	D/C	0	228	0.0	4.0	-4.0	
11		MOTIHARI-GORAKHPUR	D/C	0	245	0.0	3.2	-3.2	
12		BIHARSHARIFF-VARANASI	D/C	208	69	1.7	0.0	1.7	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	138	0.0	2.5	-2.5	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	30	0	0.3	0.0	0.3	
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	4.2	76.7	-72.5
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1897	0	38.2	0.0	38.2	
19		NEW RANCHI-DHARAMJAIGARH	D/C	1415	0	23.0	0.0	23.0	
20		JHARSUGUDA-DURG	D/C	431	0	7.5	0.0	7.5	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	387	0	4.8	0.0	4.8	
22		RANCHI-SIPAT	D/C	497	0	8.6	0.0	8.6	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	18	41	0.0	0.3	-0.3	
24		BUDHIPADAR-KORBA	D/C	251	0	5.0	0.0	5.0	
						ER-WR	87.1	0.3	86.8
Import/Export of ER (With SR)									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1366.0	0.0	16.5	-16.5	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	430.0	0.0	10.0	-10.0	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1188.0	0.0	24.9	-24.9	
28	400 kV	TALCHER-I/C	D/C	731.0	716.0	0.0	3.7	-3.7	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
						ER-SR	0.0	51.4	-51.4
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	680	0.0	11.6	-12	
31		ALIPURDUAR-BONGAIGAON	D/C	365	0	4.3	0.0	4	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	104	0.0	1.5	-2	
						ER-NER	4.3	13.1	-8.8
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	903	0.0	21.8	-21.8	
						NER-NR	0.0	21.8	-21.8
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1001	0.0	28.2	-28.2	
35		V'CHAL B/B	D/C	451	52	2.9	0.0	2.9	
36		APL -MHG	D/C	0	1168	0.0	29.1	-29.1	
37	765 kV	GWALIOR-AGRA	D/C	0	2492	0.0	35.5	-35.5	
38		PHAGI-GWALIOR	D/C	0	1140	0.0	16.1	-16.1	
39		JABALPUR-ORAI	D/C	0	989	0.0	30.0	-30.0	
40		GWALIOR-ORAI	S/C	380	0	6.3	0.0	6.3	
41		SATNA-ORAI	S/C	0	1358	0.0	24.3	-24.3	
42		CHITTORGARH-BANASKANTHA	D/C	227	826	0.0	3.8	3.8	
43		ZERDA-KANKROLI	S/C	163	146	1.5	0.5	1.0	
44	400 kV	ZERDA -BHINMAL	S/C	261	222	1.6	0.9	0.7	
45		V'CHAL -RIHAND	S/C	958	0	19.8	0.0	19.8	
46	220 kV	RAPP-SHUJALPUR	D/C	17	380	0	2	-2	
47		BHANPURA-RANPUR	S/C	31	79	0.1	0.6	-0.5	
48		BHANPURA-MORAK	S/C	0	112	0.0	1.7	-1.7	
49		MEHGAON-AURAIYA	S/C	71	0	0.9	0.0	0.9	
50		MALANPUR-AURAIYA	S/C	33	25	0.2	0.1	0.1	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	33.1	172.8	-132.0
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	211	0.0	4.9	-4.9	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	615	1212	3.3	5.8	-2.5	
55		WARDHA-NIZAMABAD	D/C	0	1829	0.0	23.3	-23.3	
56	400 kV	KOLHAPUR-KUDGI	D/C	870	0	12.9	0.0	12.9	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	58	0.0	1.1	-1.1	
59		XELDEM-AMBEWADI	S/C	0	33	0.6	0.0	0.6	
						WR-SR	16.9	35.0	-18.1
TRANSNATIONAL EXCHANGE									
60		BHUTAN						37.5	
61		NEPAL						-4.0	
62		BANGLADESH						-23.8	