



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: 21st 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 20.07.2019.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-जुलाई-2019 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें 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 20th July 2019, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting

21-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)	53529	49386	39760	21595	2795	167065
Peak Shortage (MW)	1383	0	0	0	196	1579
Energy Met (MU)	1277	1177	878	487	52	3871
Hydro Gen (MU)	340	32	42	117	29	560
Wind Gen (MU)	8	22	147	-----	-----	177
Solar Gen (MU)*	21.44	19.97	60.43	2.10	0.04	104
Energy Shortage (MU)	17.5	0.0	0.0	0.0	1.3	18.7
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	57117 22:21	51352 14:35	39679 19:45	23359 23:30	2741 19:57	169195 21:28

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	0.040	0.20	0.43	4.54	5.16	70.20	24.64

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	9931	0	206.0	127.1	-2.1	50	0.0
	Haryana	8248	0	177.1	141.7	-0.7	321	1.9
	Rajasthan	11053	0	244.3	66.3	2.2	621	0.0
	Delhi	5508	0	111.1	95.0	-0.3	170	0.0
	UP	19005	1420	415.0	190.8	0.9	907	5.2
	Uttarakhand	2081	0	44.6	19.0	0.6	149	0.1
	HP	1460	0	30.3	-1.5	0.6	193	0.0
	J&K	2144	536	43.1	20.1	2.6	364	10.2
WR	Chandigarh	263	0	5.5	6.0	-0.5	10	0.0
	Chhattisgarh	4596	0	101.8	38.4	-0.5	311	0.0
	Gujarat	17577	0	387.4	112.7	5.3	518	0.0
	MP	9629	0	213.6	106.7	0.0	941	0.0
	Maharashtra	19185	0	430.9	117.9	-1.2	577	0.0
	Goa	541	0	11.4	10.7	0.2	113	0.0
	DD	341	0	7.7	7.1	0.7	55	0.0
	DNH	810	0	18.9	18.6	0.3	116	0.0
SR	Essar steel	289	0	5.4	5.5	-0.1	262	0.0
	Andhra Pradesh	7396	0	165.5	18.2	0.6	448	0.0
	Telangana	7904	0	165.9	80.9	0.6	626	0.0
	Karnataka	9561	0	186.6	66.6	0.9	564	0.0
	Kerala	3004	0	60.5	42.0	1.9	300	0.0
	Tamil Nadu	13907	0	291.4	119.1	0.2	698	0.0
	Pondy	373	0	7.9	8.4	-0.5	40	0.0
	Bihar	5391	0	105.8	102.5	-1.4	500	0.0
ER	DVC	2980	0	67.6	-43.0	-0.1	150	0.0
	Jharkhand	1183	0	26.9	18.1	-0.5	100	0.0
	Odisha	4613	0	95.5	35.7	5.5	550	0.0
	West Bengal	9450	0	190.0	90.5	2.0	350	0.0
	Sikkim	78	0	1.2	1.1	0.1	18	0.0
NER	Arunachal Pradesh	140	1	2.2	3.1	-0.9	20	0.0
	Assam	1748	156	33.0	26.6	0.6	100	1.1
	Manipur	180	2	2.5	2.4	0.1	32	0.0
	Meghalaya	326	0	5.7	-1.2	0.0	43	0.0
	Mizoram	93	1	1.5	1.0	0.2	17	0.0
	Nagaland	128	2	2.3	2.1	0.0	19	0.0
	Tripura	297	11	5.0	4.7	-0.2	40	0.1

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	34.9	-2.0	-25.9
Day peak (MW)	1703.2	-223.0	-1136.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	259.7	-215.8	7.7	-40.7	-11.2	-0.2
Actual(MU)	274.7	-217.6	21.1	-64.7	-14.1	-0.5
O/D/U/D(MU)	15.0	-1.8	13.4	-24.0	-2.9	-0.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4589	16505	7572	2550	47	31262
State Sector	7255	13539	8380	4460	50	33684
Total	11844	30044	15952	7010	96	64946

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	563	1193	477	446	15	2693
Lignite	22	14	44	0	0	79
Hydro	340	32	42	117	29	560
Nuclear	27	31	60	0	0	119
Gas, Naptha & Diesel	26	82	11	0	29	147
RES (Wind, Solar, Biomass & Others)	46	45	248	2	0	341
Total	1025	1396	881	564	72	3939

Share of RES in total generation (%)	4.46	3.22	28.13	0.38	0.06	8.65
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	40.33	7.73	39.76	21.05	40.22	25.89

H. Diversity Factor

All India Demand Diversity Factor	1.030
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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 : 21-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	347	0.0	5.9	-5.9	
2		SASARAM-FATEHPUR	S/C	212	0	2.5	0.0	2.5	
3		GAYA-BALIA	S/C	0	374	0.0	7.6	-7.6	
4		ALIPURDUAR-AGRA	-	0	1801	0.0	41.0	-41.0	
5		PUSAULI B/B	S/C	0	249	0.0	6.3	-6.3	
6	400 kV	PUSAULI-VARANASI	S/C	0	212	0.0	5.0	-5.0	
7		PUSAULI -ALLAHABAD	S/C	0	85	0.0	1.3	-1.3	
8		MUZAFFARPUR-GORAKHPUR	D/C	5	447	0.0	7.8	-7.8	
9		PATNA-BALIA	Q/C	0	632	0.0	13.0	-13.0	
10		BIHARSHARIFF-BALIA	D/C	0	244	0.0	4.5	-4.5	
11		MOTIHARI-GORAKHPUR	D/C	0	331	0.0	6.7	-6.7	
12	220 kV	BIHARSHARIFF-VARANASI	D/C	86	103	0.0	0.1	-0.1	
13		PUSAULI-SAHUPURI	S/C	0	176	0.0	3.3	-3.3	
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						3.1	102.4	-99.4	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1225	178	5.9	0.0	5.9	
19		NEW RANCHI-DHARAMJAIGARH	D/C	1408	0	26.6	0.0	26.6	
20		JHARSUGUDA-DURG	D/C	311	20	2.5	0.0	2.5	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	937	69	16.0	0.0	16.0	
22		RANCHI-SIPAT	D/C	465	0	7.9	0.0	7.9	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	29	32	0.0	0.0	0.0	
24		BUDHIPADAR-KORBA	D/C	138	0	2.1	0.0	2.1	
ER-WR						61.1	0.0	61.0	
Import/Export of ER (With SR)									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1414.0	0.0	15.8	-15.8	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	327.0	0.0	7.5	-7.5	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1285.0	0.0	22.2	-22.2	
28	400 kV	TALCHER-I/C	D/C	1067.0	0.0	18.9	0.0	18.9	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	45.5	-45.5	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	758	0.0	11.5	-11	
31		ALIPURDUAR-BONGAIGAON	D/C	480	103	5.5	0.0	6	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	97	0.0	0.9	-1	
ER-NER						5.5	12.4	-6.9	
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	1003	0	0.0	23.5	-23.5	
NER-NR						0.0	23.5	-23.5	
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1503	0.0	27.3	-27.3	
35		V'CHAL B/B	D/C	449	0	7.3	0.0	7.3	
36		APL -MHG	D/C	0	1171	0.0	28.6	-28.6	
37	765 kV	GWALIOR-AGRA	D/C	0	2505	0.0	46.6	-46.6	
38		PHAGI-GWALIOR	D/C	0	1341	0.0	23.3	-23.3	
39		JABALPUR-ORAI	D/C	0	1032	0.0	40.4	-40.4	
40		GWALIOR-ORAI	S/C	531	0	10.7	0.0	10.7	
41		SATNA-ORAI	S/C	0	1356	0.0	28.6	-28.6	
42		CHITTORGARH-BANASKANTHA	D/C	329	497	2.7	2.2	0.5	
43	400 kV	ZERDA-KANKROLI	S/C	146	65	1.6	0.2	1.4	
44		ZERDA -BHINMAL	S/C	151	168	1.2	0.9	0.3	
45		V'CHAL -RIHAND	S/C	965	0	22.2	0.0	22.2	
46	220 kV	RAPP-SHUJALPUR	D/C	0	425	0	3	-3	
47		BHANPURA-RANPUR	S/C	10	77	0.0	0.9	-0.9	
48		BHANPURA-MORAK	S/C	0	112	0.0	1.9	-1.9	
49		MEHGAON-AURAIYA	S/C	79	0	0.8	0.0	0.8	
50		MALANPUR-AURAIYA	S/C	36	29	0.1	0.2	-0.1	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						46.6	203.8	-157.1	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	192	806	0.0	0.0	0.0	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	986	882	7.4	2.7	4.6	
55		WARDHA-NIZAMABAD	D/C	193	1975	0.0	18.8	-18.8	
56	400 kV	KOLHAPUR-KUDGI	D/C	1049	0	17.4	0.0	17.4	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	59	0.0	1.2	-1.2	
59		XELDEM-AMBEWADI	S/C	0	34	0.8	0.0	0.8	
WR-SR						25.5	22.7	2.8	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						34.9	
61		NEPAL						-2.0	
62		BANGLADESH						-25.9	