

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

POWER SYSTEM OPERATION CORPORATION LIMITED पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम) B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016 बी-9, कृतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 22nd Sep 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
- 2. 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
- 3. 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
- 4. मुख्य महाप्रबंधक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग 793006 Chief General Manager, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 5. 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 21.09.2019.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-सितंबर-2019 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ की वेबसाइट पर उप्लब्ध 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 21st Sep 2019, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Date of Reporting Report for previous day 22-Sep-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)	54594	45517	38700	21696	2864	163371
Peak Shortage (MW)	2265	0	70	55	139	2529
Energy Met (MU)	1269	1022	867	460	55	3674
Hydro Gen (MU)	292	110	156	135	21	714
Wind Gen (MU)	7	24	54			86
Solar Gen (MU)*	29.98	18.45	76.31	2.07	0.01	127
Energy Shortage (MU)	10.3	0.0	0.6	0.2	1.0	12.0
Maximum Demand Met during the day	56618	46542	39343	22102	2978	165684
(MW) & time (from NLDC SCADA)	20:29	19:10	18:52	20:52	23:01	19:16

B. Frequency Profile (%)
Region
All India FVI <49.7 49.7-49.8 49.8-49.9 <49.9 49.9-50.05 > 50.05 0.042

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
	Punjab	10163	0	227.9	129.0	-0.6	80	0.0
	Haryana	9191	0	196.3	143.2	-1.0	177	0.0
	Rajasthan	10729	0	237.8	78.8	-2.5	170	0.0
	Delhi	5244	0	108.1	91.2	-0.8	197	0.0
NR	UP	18337	0	378.5	177.6	-1.7	572	0.0
	Uttarakhand	1963	0	41.0	14.7	0.4	157	0.0
	HP	1458	0	31.0	6.5	0.5	112	0.0
	J&K	2018	505	43.0	21.7	-1.7	326	10.3
	Chandigarh	245	0	5.2	5.8	-0.6	1	0.0
	Chhattisgarh	4360	0	101.4	46.3	3.1	560	0.0
	Gujarat	14085	0	314.9	93.2	3.6	610	0.0
	MP	7915	0	172.9	75.4	-3.1	405	0.0
WR	Maharashtra	18218	0	389.6	152.4	-0.9	602	0.0
WK	Goa	541	0	11.8	11.2	0.0	35	0.0
	DD	322	0	7.4	7.0	0.3	35	0.0
	DNH	792	0	18.4	18.5	-0.1	52	0.0
	Essar steel	5808	0	5.8	6.1	-0.3	257	0.0
	Andhra Pradesh	7311	0	159.3	42.6	0.2	725	0.1
	Telangana	7959	0	167.0	26.3	-1.5	578	0.1
SR	Karnataka	9289	0	180.1	45.9	-1.1	514	0.1
3N	Kerala	3472	0	70.3	47.4	1.4	184	0.3
	Tamil Nadu	13250	0	282.9	130.9	1.1	649	0.1
	Pondy	364	0	7.5	7.7	-0.2	33	0.0
	Bihar	5242	0	98.8	99.3	-1.8	400	0.0
	DVC	2968	0	65.3	-20.8	0.0	200	0.0
ER	Jharkhand	1211	0	25.7	19.1	0.1	210	0.2
EN	Odisha	4542	0	93.3	19.1	7.5	473	0.0
	West Bengal	8606	0	176.2	70.1	-1.1	510	0.0
	Sikkim	93	0	1.1	1.4	-0.3	40	0.0
	Arunachal Pradesh	118	1	2.1	2.1	0.0	50	0.0
	Assam	1853	80	36.2	30.3	0.8	121	1.0
	Manipur	154	1	2.5	2.3	0.2	35	0.0
NER	Meghalaya	352	0	5.8	1.8	0.1	104	0.0
	Mizoram	85	2	1.6	0.7	0.8	27	0.0
	Nagaland	138	1	2,2	2.4	-0.4	68	0.0
	Tripura	295	2	5.1	5.2	-0.1	41	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	45.3	-4.3	-25.8
Day peak (MW)	1893.5	-314.0	-1125.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	295.6	-220.9	2.2	-73.5	0.8	4.1
Actual(MU)	294.8	-215.3	-2.0	-78.0	1.1	0.5
O/D/U/D(MU)	-0.8	5.6	-4.2	-4.5	0.4	-3.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3495	16085	7722	1550	56	28907
State Sector	9240	19839	8710	4680	11	42480
Total	12735	35923	16432	6230	67	71387

G. Sourcewise generation (MU)

NR	WR	SR	ER	NER	All India
569	991	433	430	12	2435
22	12	45	0	0	79
292	110	156	135	21	714
27	26	60	0	0	113
40	69	16	0	28	153
50	48	163	2	0	263
1000	1255	874	568	60	3757
	569 22 292 27 40 50	569 991 22 12 292 110 27 26 40 69 50 48	569 991 433 22 12 45 292 110 156 27 26 60 40 69 16 50 48 163	569 991 433 430 22 12 45 0 292 110 156 135 27 26 60 0 40 69 16 0 50 48 163 2	569 991 433 430 12 22 12 45 0 0 292 110 156 135 21 27 26 60 0 0 40 69 16 0 28 50 48 163 2 0

Share of RES in total generation (%)	4.98	3.85	18.63	0.37	0.02	7.00
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	36,95	14.63	43.39	24.21	34.52	29.03

H. Diversity Factor All India Demand Diversity Factor

All India Demand Diversity Factor 1.011

Diversity factor = Sum of regional maximum demands / All India maximum demand

 $[\]textbf{*\underline{Source}:} \ RLDCs \ for \ solar \ connected \ to \ ISTS; \ SLDCs \ for \ embedded \ solar. \ Limited \ visibility \ of \ embedded \ solar \ data.$

		<u>IN</u>	FER-REGI	ONAL EXCH	ANGES	Date of 1	Reporting :	22-Sep-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)
	xport of	ER (With NR)	1 1					
2	765kV	GAYA-VARANASI SASARAM-FATEHPUR	D/C S/C	110	472 154	0.0	7.7 0.4	-7.7 -0.4
3	705KV	GAYA-BALIA	S/C	0	366	0.0	6.5	-6.5
4	HVDC	ALIPURDUAR-AGRA	-	0	1201	0.0	28.7	-28.7
5	пурс	PUSAULI B/B	S/C	0	196	0.0	4.7	-4.7
6		PUSAULI-VARANASI	S/C	0	170	0.0	3.3	-3.3
7		PUSAULI -ALLAHABAD	S/C	0	90	0.0	1.3	-1.3
9	400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	D/C O/C	0	890 905	0.0	14.1 18.7	-14.1 -18.7
10	400 K	BIHARSHARIFF-BALIA	D/C	0	272	0.0	4.2	-4.2
11		MOTIHARI-GORAKHPUR	D/C	0	11	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	66	171	0.0	0.9	-0.9
13	220 kV	PUSAULI-SAHUPURI	S/C	0	180	0.0	3.1	-3.1
14		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.4	0.0	0.4
16	10211	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
4.00		ED (WAL WD)			ER-NR	0.4	93.5	-93.1
	xport of	ER (With WR)	1				1	
18	7(5) \$7	JHARSUGUDA-DHARAMJAIGARH	Q/C	935	0	13.7	0.0	13.7
19	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	859	0	12.0	0.0	12.0
20		JHARSUGUDA-DURG	D/C O/C	201 177	6 216	2.5 0.6	0.0	2.5 0.6
22	400 kV	JHARSUGUDA-RAIGARH RANCHI-SIPAT	Q/C D/C	288	0	4.3	0.0	4.3
23		BUDHIPADAR-RAIGARH	S/C	0	121	0.0	2.1	-2.1
24	220 kV	BUDHIPADAR-KORBA	D/C	63	38	0.6	0.0	0.6
					ER-WR	33.8	2.1	31.7
mport/E	xport of	ER (With SR)					U	•
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1472.0	0.0	20.5	-20.5
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	348.0	0.0	7.3	0.0	7.3
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	690.0	0.0	16.9	-16.9
28	400 kV	TALCHER-I/C	D/C	387.0	0.0	6.9	0.0	6.9
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
Import/E	'vnort of	ER (With NER)			ER-SR	7.3	37.3	-30.0
30 30	xport or	BINAGURI-BONGAIGAON	D/C	0	560	0.0	9.5	-9
31	400 kV	ALIPURDUAR-BONGAIGAON	D/C	108	276	0.0	2.7	-3
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	132	0.0	2.0	-2
			-		ER-NER	0.0	14.1	-14.1
[mport/E	export of	NER (With NR)					•	•
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	603	0.0	14.6	-14.6
					NER-NR	0.0	14.6	-14.6
	export of	WR (With NR)			1			1
34	*******	CHAMPA-KURUKSHETRA	D/C	0	2010	0.0	34.8	-34.8
35	HVDC	V'CHAL B/B	D/C	231	1725	6.1	0.0	6.1
36 37		APL -MHG GWALIOR-AGRA	D/C D/C	0	1735 2180	0.0	36.4 41.0	-36.4 -41.0
38	1	PHAGI-GWALIOR	D/C D/C	0	1344	0.0	26.9	-41.0
39		JABALPUR-ORAI	D/C D/C	0	836	0.0	33.1	-26.9
40	765 kV	GWALIOR-ORAI	S/C	367	0	6.5	0.0	6.5
41		SATNA-ORAI	S/C	0	1422	0.0	29.5	-29.5
42	1	CHITTORGARH-BANASKANTHA	D/C	88	979	0.0	14.2	-14.2
43		ZERDA-KANKROLI	S/C	115	150	0.3	1.4	-1.1
44	400	ZERDA -BHINMAL	S/C	77	273	0.0	4.1	-4.0
45	400 kV	V'CHAL -RIHAND	S/C	979	0	22.5	0.0	22.5
46		RAPP-SHUJALPUR	D/C	0	407	0	3	-3
47		BHANPURA-RANPUR	S/C	13	89	0.0	1.0	-1.0
48	220 kV	BHANPURA-MORAK	S/C	0	117	0.0	1.9	-1.9
49		MEHGAON-AURAIYA	S/C	77	0	0.9	0.0	0.9
50	1001	MALANPUR-AURAIYA	S/C	43	32	0.2	0.1	0.1
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
mport/E	xport of	WR (With SR)			WR-NR	36.5	227.5	-191.0
52 52	HVDC	BHADRAWATI B/B	- 1	192	0	4.8	0.0	4.8
53	LINK	BARSUR-L.SILERU		0	0	0.0	0.0	0.0
54		SOLAPUR-RAICHUR	D/C	775	862	5.4	3.6	1.8
55	765 kV	WARDHA-NIZAMABAD	D/C	0	1434	0.0	15.2	-15.2
56	400 kV	KOLHAPUR-KUDGI	D/C	855	0	16.6	0.0	16.6
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58	220 kV	PONDA-AMBEWADI	S/C	0	70	0.0	1.3	-1.3
59		XELDEM-AMBEWADI	S/C	0	40	0.7	0.0	0.7
					WR-SR	27.5	20.1	7.4
		Т	RANSNATI	ONAL EXCHA	NGE			
60		BHUTAN	RANSNATI	ONAL EXCHA	NGE			45.3
60 61 62			RANSNATI	ONAL EXCHA	ANGE			45.: -4.: