



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: 14th Nov 2019

To,

1. 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. कार्यकारी निदेशक, ऊ. पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह , लापलंग, शिलोंग - 793006
Executive Director, 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 13.11.2019.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-नवम्बर-2019 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 13th Nov 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 14-Nov-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 1900 hrs; from RLDCs)	42403	46477	39351	18055	2377	148663
Peak Shortage (MW)	829	0	0	0	61	890
Energy Met (MU)	866	1062	901	343	42	3213
Hydro Gen (MU)	135	52	92	55	11	346
Wind Gen (MU)	12	20	49	-----	-----	81
Solar Gen (MU)*	11.87	18.71	83.51	2.08	0.04	116
Energy Shortage (MU)	9.6	0.0	0.0	0.0	0.6	10.2
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	42929 18:16	48387 11:21	41204 18:35	17934 17:59	2499 17:34	151563 18:20

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	0.028	0.00	0.05	2.77	2.81	74.64	22.55

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	5159	0	102.6	45.7	-2.1	-12	0.0
	Haryana	5951	0	113.3	106.1	0.8	196	0.0
	Rajasthan	11229	0	215.3	67.9	-0.6	314	0.0
	Delhi	3265	0	62.0	46.3	-1.6	153	0.0
	UP	14298	0	268.7	118.1	1.1	850	0.3
	Uttarakhand	1716	0	33.7	18.8	0.4	160	0.0
	HP	1547	0	27.9	18.4	0.4	189	0.0
	J&K	2116	529	39.3	33.2	-1.4	201	9.3
	Chandigarh	194	0	3.5	3.3	0.2	40	0.0
WR	Chhattisgarh	3330	0	70.8	21.9	-1.0	251	0.0
	Gujarat	14622	0	314.5	85.1	3.5	375	0.0
	MP	10877	0	218.5	145.8	-1.2	594	0.0
	Maharashtra	19052	0	414.3	127.0	-1.8	555	0.0
	Goa	541	0	12.4	11.4	0.4	63	0.0
	DD	328	0	7.3	6.7	0.6	55	0.0
	DNH	776	0	18.1	18.2	-0.1	30	0.0
	Essar steel	258	0	5.8	5.7	0.1	246	0.0
	Andhra Pradesh	8426	0	173.3	76.3	0.5	537	0.0
SR	Telangana	8046	0	176.6	64.2	1.1	413	0.0
	Karnataka	9052	0	177.3	32.7	-1.0	465	0.0
	Kerala	3725	0	70.8	52.6	1.4	211	0.0
	Tamil Nadu	14157	0	295.1	141.0	-1.0	654	0.0
	Pondy	371	0	7.6	8.2	-0.6	27	0.0
	Bihar	4118	0	69.1	70.2	-2.0	230	0.0
ER	DVC	3021	0	62.4	-39.9	0.2	300	0.0
	Jharkhand	1134	0	23.9	16.3	-1.3	110	0.0
	Odisha	3714	0	70.4	5.1	0.2	250	0.0
	West Bengal	6373	0	115.8	39.3	1.2	270	0.0
	Sikkim	100	0	1.5	1.5	-0.1	15	0.0
	NER	Arunachal Pradesh	108	1	2.2	1.6	0.3	22
Assam		1450	30	23.7	18.9	-0.3	100	0.5
Manipur		145	1	2.4	2.3	0.1	36	0.0
Meghalaya		339	0	6.0	3.0	0.2	20	0.0
Mizoram		98	1	1.8	0.8	0.4	14	0.0
Nagaland		125	2	2.1	2.0	-0.2	48	0.0
Tripura		231	1	4.0	2.7	-0.2	19	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	12.6	-0.5	-20.0
Day peak (MW)	650.7	-190.5	-1064.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	199.9	-187.4	82.5	-93.6	-1.1	0.4
Actual(MU)	200.6	-190.7	80.7	-93.7	0.1	-3.1
O/D/U/D(MU)	0.6	-3.2	-1.8	-0.1	1.1	-3.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5723	17403	7432	2080	563	33200
State Sector	13956	19311	8200	5080	11	46558
Total	19679	36714	15632	7160	575	79759

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	441	1076	444	399	11	2372
Lignite	17	16	51	0	0	83
Hydro	135	52	92	55	11	346
Nuclear	28	25	55	0	0	108
Gas, Naptha & Diesel	30	48	16	0	24	118
RES (Wind, Solar, Biomass & Others)	39	44	164	2	0	249
Total	689	1262	821	457	47	3276

Share of RES in total generation (%)	5.59	3.49	19.95	0.46	0.09	7.59
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	29.33	9.62	37.79	12.57	24.64	21.45

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.009
Based on State Max Demands	1.056

Diversity factor = Sum of regional or state-wise 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 :	14-Nov-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	0	761	0.0	13.1	-13.1	
2		SASARAM-FATEHPUR	S/C	0	448	0.0	7.3	-7.3	
3		GAYA-BALIA	S/C	0	402	0.0	7.8	-7.8	
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5		PUSAULI B/B	S/C	0	198	0.0	4.9	-4.9	
6	400 kV	PUSAULI-VARANASI	S/C	0	145	0.0	2.9	-2.9	
7		PUSAULI -ALLAHABAD	S/C	0	109	0.0	1.9	-1.9	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	984	0.0	16.2	-16.2	
9		PATNA-BALIA	Q/C	0	1059	0.0	19.5	-19.5	
10		BIHARSHARIFF-BALIA	D/C	0	316	0.0	5.7	-5.7	
11		MOTIHARI-GORAKHPUR	D/C	0	6	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	0	264	0.0	3.3	-3.3	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	79	0.0	1.1	-1.1	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	30	0	0.4	0.0	0.4	
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	0.4	83.6	-83.2
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	918	0	17.9	0.0	17.9	
19		NEW RANCHI-DHARAMJAIGARH	D/C	454	276	2.7	0.0	2.7	
20		JHARSUGUDA-DURG	D/C	93	161	0.0	0.3	-0.3	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	225	173	1.0	0.0	1.0	
22		RANCHI-SIPAT	D/C	111	18	1.4	0.0	1.4	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	81	0.0	1.2	-1.2	
24		BUDHIPADAR-KORBA	D/C	146	0	2.1	0.0	2.1	
						ER-WR	25.0	1.5	23.5
Import/Export of ER (With SR)									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1867.0	0.0	30.4	-30.4	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	679.0	0.0	12.6	-12.6	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1979.0	0.0	33.9	-33.9	
28	400 kV	TALCHER-I/C	D/C	143.0	978.0	0.0	8.7	-8.7	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
						ER-SR	0.0	76.9	-76.9
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	308	0	4.5	0.0	5	
31		ALIPURDUAR-BONGAIGAON	D/C	321	0	4.2	0.0	4	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	57	16	0.6	0.0	1	
						ER-NER	9.3	0.0	9.3
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	373	0	9.2	0.0	9.2	
						NER-NR	9.2	0.0	9.2
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	984	0.0	21.2	-21.2	
35		V'CHAL B/B	D/C	451	0	12.1	0.0	12.1	
36		APL -MHG	D/C	0	1922	0.0	30.7	-30.7	
37	765 kV	GWALIOR-AGRA	D/C	0	2259	0.0	42.3	-42.3	
38		PHAGI-GWALIOR	D/C	0	1448	0.0	24.3	-24.3	
39		JABALPUR-ORAI	D/C	0	843	0.0	28.7	-28.7	
40		GWALIOR-ORAI	S/C	716	0	12.8	0.0	12.8	
41		SATNA-ORAI	S/C	0	1337	0.0	28.0	-28.0	
42		CHITTORGARH-BANASKANTHA	D/C	59	633	0.0	5.4	-5.4	
43		ZERDA-KANKROLI	S/C	87	91	0.8	0.3	0.5	
44	400 kV	ZERDA -BHINMAL	S/C	126	209	0.2	1.4	-1.3	
45		V'CHAL -RIHAND	S/C	984	0	22.5	0.0	22.5	
46		RAPP-SHUJALPUR	D/C	31	241	0	2	-2	
47	220 kV	BHANPURA-RANPUR	S/C	16	40	0.0	0.4	-0.4	
48		BHANPURA-MORAK	S/C	24	68	0.1	0.4	-0.4	
49		MEHGAON-AURAIYA	S/C	103	0	1.4	0.0	1.4	
50		MALANPUR-AURAIYA	S/C	49	7	0.3	0.0	0.3	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	50.1	185.0	-134.8
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	1016	0.0	16.9	-16.9	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	1134	1291	0.0	4.3	-4.3	
55		WARDHA-NIZAMABAD	D/C	145	1734	0.0	22.4	-22.4	
56	400 kV	KOLHAPUR-KUDGI	D/C	1037	0	13.9	0.0	13.9	
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58	220 kV	PONDA-AMBEWADI	S/C	3	69	0.0	1.1	-1.1	
59		XELDEM-AMBEWADI	S/C	1	77	0.9	0.0	0.9	
						WR-SR	14.8	44.8	-30.0
TRANSNATIONAL EXCHANGE									
60		BHUTAN						12.6	
61		NEPAL						-0.5	
62		BANGLADESH						-20.0	