



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 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 28.11.2019.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28th 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 29-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)	40821	48252	37475	18293	2328	147169
Peak Shortage (MW)	509	0	0	0	40	549
Energy Met (MU)	813	1146	875	344	41	3219
Hydro Gen (MU)	141	41	87	37	9	316
Wind Gen (MU)	16	70	57	-----	-----	143
Solar Gen (MU)*	25.49	19.7	63.43	1.92	0.05	111
Energy Shortage (MU)	9.0	0.0	0.0	0.0	0.5	9.6
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	41362 18:29	52674 10:38	40848 18:32	18445 17:48	2447 18:21	151818 18:25

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	0.030	0.00	0.00	0.41	0.41	69.79	29.80

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	5053	0	99.4	47.2	-0.5	144	0.0
	Haryana	5534	0	100.3	91.7	-0.6	405	0.0
	Rajasthan	11445	0	213.0	65.4	-1.9	426	0.0
	Delhi	3384	0	62.4	52.4	-1.2	124	0.0
	UP	12448	0	238.2	102.9	-0.5	504	0.0
	Uttarakhand	1548	0	30.2	18.9	-0.7	126	0.0
	HP	1493	7	28.2	21.4	-1.5	0	0.0
	J&K	2036	509	37.9	34.2	-3.8	201	9.0
	Chandigarh	201	0	3.5	3.4	0.0	20	0.0
WR	Chhattisgarh	3389	0	71.4	18.3	-1.4	460	0.0
	Gujarat	15753	0	334.7	80.3	-2.4	472	0.0
	MP	13096	0	252.8	149.7	-3.0	419	0.0
	Maharashtra	21191	0	443.7	138.4	-1.9	403	0.0
	Goa	594	0	12.5	12.1	-0.2	59	0.0
	DD	326	0	7.4	6.7	0.7	51	0.0
	DNH	805	0	17.7	17.8	-0.1	70	0.0
	Essar steel	346	0	5.7	5.6	0.1	295	0.0
	SR	Andhra Pradesh	7840	0	168.6	77.9	0.2	356
Telangana		8267	0	169.0	68.9	2.1	325	0.0
Karnataka		10190	0	190.8	45.4	0.7	438	0.0
Kerala		3689	0	73.8	54.4	1.9	206	0.0
Tamil Nadu		13178	0	265.8	158.7	-0.5	529	0.0
Pondy		365	0	7.1	7.5	-0.4	36	0.0
ER	Bihar	4039	0	69.3	67.8	0.6	50	0.0
	DVC	3032	0	61.3	-30.7	-1.6	400	0.0
	Jharkhand	1300	0	24.1	17.7	-1.5	31	0.0
	Odisha	3971	0	74.5	5.9	2.0	300	0.0
	West Bengal	6588	0	113.0	32.9	1.7	140	0.0
Sikkim	100	0	1.6	1.5	0.0	20	0.0	
NER	Arunachal Pradesh	115	1	2.1	2.1	-0.2	23	0.0
	Assam	1408	25	23.1	18.1	0.2	81	0.5
	Manipur	160	2	2.6	2.6	0.0	29	0.0
	Meghalaya	319	0	5.5	2.7	0.2	21	0.0
	Mizoram	99	1	1.8	0.6	0.8	9	0.0
	Nagaland	117	2	2.2	2.0	-0.1	2	0.0
	Tripura	220	1	3.6	1.9	-0.1	24	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	6.8	-2.8	-14.4
Day peak (MW)	488.8	-292.0	-922.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	191.8	-189.4	93.1	-93.2	-1.7	0.6
Actual(MU)	165.3	-189.1	109.3	-90.5	-0.1	-5.0
O/D/U/D(MU)	-26.5	0.3	16.3	2.7	1.6	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5924	17506	6162	1990	584	32167
State Sector	13681	14695	10770	5670	11	44827
Total	19605	32201	16932	7660	596	76994

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	399	1111	412	413	11	2345
Lignite	20	12	40	0	0	73
Hydro	141	41	87	37	9	316
Nuclear	28	28	60	0	0	116
Gas, Naptha & Diesel	15	50	15	0	24	104
RES (Wind, Solar, Biomass & Others)	68	106	162	2	0	338
Total	672	1348	775	452	45	3292

Share of RES in total generation (%)	10.16	7.85	20.87	0.43	0.11	10.27
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	35.42	12.99	39.78	8.58	21.10	23.38

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.078

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 : 29-Nov-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	853	0.0	11.7	-11.7
2		SASARAM-FATEHPUR	S/C	0	425	0.0	5.6	-5.6
3		GAYA-BALIA	S/C	0	346	0.0	5.9	-5.9
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	196	0.0	4.9	-4.9
6	400 kV	PUSAULI-VARANASI	S/C	0	138	0.0	2.7	-2.7
7		PUSAULI -ALLAHABAD	S/C	0	136	0.0	2.1	-2.1
8		MUZAFFARPUR-GORAKHPUR	D/C	0	917	0.0	13.0	-13.0
9		PATNA-BALIA	Q/C	0	814	0.0	13.7	-13.7
10		BIHARSHARIFF-BALIA	D/C	0	320	0.0	4.8	-4.8
11		MOTIHARI-GORAKHPUR	D/C	0	4	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	0	377	0.0	4.0	-4.0
13	220 kV	PUSAULI-SAHUPURI	S/C	1	0	0.0	0.0	0.0
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	68.4	-68.0
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1269	0	16.7	0.0	16.7
19		NEW RANCHI-DHARAMJAIGARH	D/C	371	308	1.0	0.0	1.0
20		JHARSUGUDA-DURG	D/C	51	357	0.0	3.0	-3.0
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	227	200	0.1	0.0	0.1
22		RANCHI-SIPAT	D/C	145	101	0.9	0.0	0.9
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	109	0.0	1.6	-1.6
24		BUDHIPADAR-KORBA	D/C	125	0	1.6	0.0	1.6
ER-WR						20.3	4.6	15.7
Import/Export of ER (With SR)								
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1859.0	0.0	34.6	-34.6
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	531.0	0.0	12.4	-12.4
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2465.0	0.0	44.1	-44.1
28	400 kV	TALCHER-I/C	D/C	589.0	986.0	0.0	7.5	-7.5
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	91.1	-91.1
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	297	62	4.8	0.0	5
31		ALIPURDUAR-BONGAIGAON	D/C	319	0	5.6	0.0	6
32	220 kV	ALIPURDUAR-SALAKATI	D/C	59	24	0.8	0.0	1
ER-NER						11.2	0.0	11.2
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	470	0	11.4	0.0	11.4
NER-NR						11.4	0.0	11.4
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	481	0.0	13.1	-13.1
35		V'CHAL B/B	D/C	452	0	8.4	0.0	8.4
36		APL -MHG	D/C	0	1079	0.0	23.2	-23.2
37	765 kV	GWALIOR-AGRA	D/C	0	2043	0.0	37.4	-37.4
38		PHAGI-GWALIOR	D/C	0	1269	0.0	16.5	-16.5
39		JABALPUR-ORAI	D/C	635	697	0.0	24.0	-24.0
40		GWALIOR-ORAI	S/C	564	0	9.8	0.0	9.8
41		SATNA-ORAI	S/C	0	1245	0.0	27.1	-27.1
42		CHITTORGARH-BANASKANTHA	D/C	0	879	0.0	11.2	-11.2
43		ZERDA-KANKROLI	S/C	65	157	0.3	0.8	-0.5
44	400 kV	ZERDA -BHINMAL	S/C	112	322	0.2	2.4	-2.1
45		V'CHAL -RIHAND	S/C	967	0	22.3	0.0	22.3
46		RAPP-SHUJALPUR	D/C	179	155	1	0	1
47	220 kV	BHANPURA-RANPUR	S/C	23	53	0.1	0.3	-0.3
48		BHANPURA-MORAK	S/C	40	114	0.1	1.0	-0.9
49		MEHGAON-AURAIYA	S/C	104	3	1.3	0.0	1.3
50		MALANPUR-AURAIYA	S/C	50	21	0.2	0.0	0.2
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						43.5	157.1	-113.6
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	860	0.0	17.1	-17.1
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	368	1621	0.3	18.2	-17.9
55		WARDHA-NIZAMABAD	D/C	100	2228	0.0	35.4	-35.4
56	400 kV	KOLHAPUR-KUDGI	D/C	790	0	12.2	0.0	12.2
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	3	76	0.0	0.8	-0.8
59		XELDEM-AMBEWADI	S/C	1	85	0.9	0.0	0.9
WR-SR						13.4	71.5	-58.1
TRANSNATIONAL EXCHANGE								
60		BHUTAN						6.8
61		NEPAL						-2.8
62		BANGLADESH						-14.4