



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: 30th 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., डोंगतेह, 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 29.11.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-नवम्बर-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 29th 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 30-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)	42431	48284	37410	18552	2348	149025
Peak Shortage (MW)	520	0	0	0	28	548
Energy Met (MU)	836	1147	878	344	41	3246
Hydro Gen (MU)	137	47	92	40	9	325
Wind Gen (MU)	30	61	48	-----	-----	139
Solar Gen (MU)*	27.51	19.89	64.29	2.43	0.05	114
Energy Shortage (MU)	12.1	0.0	0.0	0.0	0.4	12.5
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	43048 18:54	52763 10:34	40614 07:40	18632 18:31	2449 17:31	152109 18:28

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	0.028	0.00	0.00	3.11	3.11	77.40	19.49

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	5198	0	102.8	44.0	-0.1	162	0.0
	Haryana	5780	0	109.9	98.5	0.7	209	0.0
	Rajasthan	11148	0	212.3	51.1	-1.7	678	0.0
	Delhi	3508	0	63.5	52.8	-0.5	136	0.0
	UP	13394	0	236.2	94.8	0.6	879	1.6
	Uttarakhand	1804	0	34.2	21.5	0.9	218	0.0
	HP	1599	0	29.2	21.1	0.0	113	0.0
	J&K	2283	571	44.3	37.5	-0.8	201	10.5
	Chandigarh	211	0	3.5	3.3	0.2	46	0.0
WR	Chhattisgarh	3420	0	71.9	19.9	-0.8	379	0.0
	Gujarat	15805	0	336.7	78.1	-1.5	514	0.0
	MP	13003	0	250.3	151.0	-4.4	419	0.0
	Maharashtra	21176	0	443.7	139.5	-2.3	451	0.0
	Goa	541	0	12.9	12.4	0.0	24	0.0
	DD	332	0	7.4	6.8	0.6	54	0.0
	DNH	783	0	18.4	18.4	0.0	35	0.0
	Essar steel	333	0	5.9	5.7	0.2	295	0.0
	SR	Andhra Pradesh	7880	0	167.7	79.5	-0.9	454
Telangana		8339	0	168.6	71.9	1.5	480	0.0
Karnataka		10520	0	195.3	47.9	0.8	821	0.0
Kerala		3627	0	74.2	55.1	1.5	209	0.0
Tamil Nadu		12919	0	264.7	158.5	0.5	562	0.0
Pondy		368	0	7.3	7.6	-0.2	28	0.0
ER	Bihar	4066	0	69.0	68.4	-0.6	230	0.0
	DVC	2964	0	60.2	-28.9	-1.5	210	0.0
	Jharkhand	1251	0	24.3	17.2	-1.1	31	0.0
	Odisha	4089	0	74.9	9.6	1.4	320	0.0
	West Bengal	6474	0	114.1	32.2	2.9	270	0.0
Sikkim	100	0	1.5	1.5	0.0	20	0.0	
NER	Arunachal Pradesh	116	1	2.1	2.0	0.0	66	0.0
	Assam	1380	30	22.9	18.2	-0.2	122	0.4
	Manipur	165	1	2.4	2.6	-0.2	34	0.0
	Meghalaya	332	0	5.5	2.7	0.3	33	0.0
	Mizoram	101	2	1.8	0.6	0.8	12	0.0
	Nagaland	118	1	2.2	2.0	-0.1	3	0.0
	Tripura	223	1	3.9	1.9	0.0	12	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	7.8	-3.2	-7.1
Day peak (MW)	654.0	-307.6	-548.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	198.2	-191.0	91.2	-96.7	-1.7	0.0
Actual(MU)	171.4	-187.4	109.0	-95.3	-0.4	-2.6
O/D/U/D(MU)	-26.8	3.6	17.8	1.4	1.3	-2.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6313	18136	6162	1990	563	33165
State Sector	13330	15172	10820	6270	11	45603
Total	19643	33308	16982	8260	575	78767

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	401	1112	414	408	12	2347
Lignite	20	13	41	0	0	73
Hydro	137	47	92	40	9	325
Nuclear	29	28	60	0	0	117
Gas, Naptha & Diesel	15	54	16	0	25	110
RES (Wind, Solar, Biomass & Others)	83	98	154	2	0	337
Total	684	1352	777	450	45	3309

Share of RES in total generation (%)	12.14	7.23	19.83	0.55	0.11	10.19
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	36.33	12.77	39.43	9.43	20.20	23.55

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.087

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 : 30-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	928	0.0	12.8	-12.8
2		SASARAM-FATEHPUR	S/C	0	501	0.0	5.7	-5.7
3		GAYA-BALIA	S/C	0	370	0.0	5.7	-5.7
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	3	198	0.0	4.1	-4.1
6	400 kV	PUSAULI-VARANASI	S/C	39	147	0.0	2.2	-2.2
7		PUSAULI -ALLAHABAD	S/C	0	138	0.0	2.1	-2.1
8		MUZAFFARPUR-GORAKHPUR	D/C	0	995	0.0	14.4	-14.4
9		PATNA-BALIA	Q/C	0	852	0.0	14.6	-14.6
10		BIHARSHARIFF-BALIA	D/C	0	348	0.0	5.3	-5.3
11		MOTIHARI-GORAKHPUR	D/C	0	4	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	0	392	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	70.9	-70.5
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1003486	0	15.4	0.0	15.4
19		NEW RANCHI-DHARAMJAIGARH	D/C	333	524	0.0	1.1	-1.1
20		JHARSUGUDA-DURG	D/C	0	284	0.0	3.4	-3.4
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	225	244	0.1	0.0	0.1
22		RANCHI-SIPAT	D/C	150	153	0.4	0.0	0.4
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	111	0.0	1.7	-1.7
24		BUDHIPADAR-KORBA	D/C	129	2	1.4	0.0	1.4
ER-WR						17.3	6.2	11.1
Import/Export of ER (With SR)								
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1846.0	0.0	33.5	-33.5
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	1981.0	0.0	41.6	-41.6
28	400 kV	TALCHER-I/C	D/C	458.0	983.0	0.0	5.6	-5.6
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	87.4	-87.4
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	335	23	5.3	0.0	5
31		ALIPURDUAR-BONGAIGAON	D/C	369	0	5.6	0.0	6
32	220 kV	ALIPURDUAR-SALAKATI	D/C	66	16	0.9	0.0	1
ER-NER						11.7	0.0	11.7
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	470	0	11.6	0.0	11.6
NER-NR						11.6	0.0	11.6
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	469	0.0	12.1	-12.1
35		V'CHAL B/B	D/C	243	0	6.0	0.0	6.0
36		APL -MHG	D/C	0	1460	0.0	29.7	-29.7
37	765 kV	GWALIOR-AGRA	D/C	0	2022	0.0	34.4	-34.4
38		PHAGI-GWALIOR	D/C	0	1623	0.0	22.1	-22.1
39		JABALPUR-ORAI	D/C	674	758	0.0	25.2	-25.2
40		GWALIOR-ORAI	S/C	576	0	9.6	0.0	9.6
41		SATNA-ORAI	S/C	0	1264	0.0	26.3	-26.3
42		CHITTORGARH-BANASKANTHA	D/C	0	1006	0.0	9.2	-9.2
43		ZERDA-KANKROLI	S/C	99	163	0.1	0.0	0.1
44	400 kV	ZERDA -BHINMAL	S/C	158	293	0.2	0.0	0.2
45		V'CHAL -RIHAND	S/C	986	0	22.5	0.0	22.5
46	220 kV	RAPP-SHUJALPUR	D/C	272	146	2	0	2
47		BHANPURA-RANPUR	S/C	31	56	1.5	0.0	1.5
48		BHANPURA-MORAK	S/C	49	108	0.2	1.0	-0.8
49		MEHGAON-AURAIYA	S/C	67	1	0.4	0.0	0.4
50	132kV	MALANPUR-AURAIYA	S/C	51	26	0.3	0.1	0.2
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						43.1	160.1	-117.0
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	809	0.0	16.7	-16.7
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	282	1780	0.0	18.5	-18.5
55		WARDHA-NIZAMABAD	D/C	0	2287	0.0	34.5	-34.5
56	400 kV	KOLHAPUR-KUDGI	D/C	752	0	10.4	0.0	10.4
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	0	73	0.0	1.4	-1.4
59		XELDEM-AMBEWADI	S/C	0	82	1.6	0.0	1.6
WR-SR						12.0	71.1	-59.1
TRANSNATIONAL EXCHANGE								
60		BHUTAN						7.8
61		NEPAL						-3.2
62		BANGLADESH						-7.1