



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: 17th 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 16.11.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16th 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 17-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)	41898	47510	39189	18073	2374	149044
Peak Shortage (MW)	486	0	0	0	16	502
Energy Met (MU)	851	1069	886	338	42	3187
Hydro Gen (MU)	138	27	96	51	11	323
Wind Gen (MU)	18	33	24	-----	-----	75
Solar Gen (MU)*	20.51	19.67	73.03	1.82	0.04	115
Energy Shortage (MU)	9.9	0.0	0.0	0.0	0.3	10.2
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	42978 18:25	48045 17:48	41907 18:40	18239 18:40	2507 17:22	153017 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	0.038	0.00	0.21	6.23	6.44	69.33	24.24

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	5172	0	101.3	48.9	-1.2	442	0.0
	Haryana	5755	0	110.5	100.5	-0.5	191	0.0
	Rajasthan	10464	0	200.5	54.9	-1.5	480	0.0
	Delhi	3230	0	60.4	45.6	-1.0	109	0.0
	UP	14126	0	272.1	128.6	-2.1	350	0.0
	Uttarakhand	1696	0	33.3	19.0	-0.6	115	0.0
	HP	1519	0	27.6	19.8	-0.7	72	0.0
	J&K	2060	515	41.8	34.9	-0.6	201	9.9
	Chandigarh	184	0	3.3	3.3	0.0	14	0.0
WR	Chhattisgarh	3382	0	70.8	25.3	-0.6	204	0.0
	Gujarat	14833	0	313.7	89.3	-1.6	521	0.0
	MP	11460	0	224.7	152.2	-2.1	419	0.0
	Maharashtra	19207	0	416.2	132.7	-3.0	449	0.0
	Goa	541	0	12.9	12.2	0.1	35	0.0
	DD	319	0	7.2	6.8	0.4	36	0.0
	DNH	781	0	18.2	18.1	0.1	47	0.0
	Essar steel	328	0	5.5	5.7	-0.1	295	0.0
	Andhra Pradesh	7671	0	168.3	81.8	0.2	310	0.0
SR	Telangana	9046	0	192.5	79.0	0.4	466	0.0
	Karnataka	9059	0	172.0	39.8	0.3	575	0.0
	Kerala	3614	0	72.1	56.5	1.1	177	0.0
	Tamil Nadu	13277	0	273.6	150.5	0.9	535	0.0
	Pondy	365	0	7.4	7.6	-0.2	41	0.0
	Bihar	4215	0	71.2	67.4	-1.2	50	0.0
ER	DVC	2968	0	59.8	-36.7	0.0	100	0.0
	Jharkhand	1080	0	23.8	17.2	-1.2	31	0.0
	Odisha	3629	0	66.7	2.8	0.6	60	0.0
	West Bengal	6541	0	115.7	37.7	2.4	150	0.0
	Sikkim	100	0	1.4	1.4	-0.1	10	0.0
	NER	Arunachal Pradesh	110	1	2.1	1.5	0.3	36
Assam		1447	10	24.1	18.9	-0.1	113	0.3
Manipur		161	2	2.5	2.4	0.1	28	0.0
Meghalaya		335	0	5.8	2.9	0.2	43	0.0
Mizoram		97	1	1.9	0.4	0.9	23	0.0
Nagaland		126	2	2.2	2.0	0.0	21	0.0
Tripura		228	3	3.8	2.5	-0.5	36	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	11.3	-0.5	-15.6
Day peak (MW)	584.4	-216.9	-975.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	199.4	-196.1	103.5	-106.2	-0.7	-0.1
Actual(MU)	184.3	-196.1	114.6	-111.6	0.4	-8.4
O/D/U/D(MU)	-15.1	0.0	11.1	-5.4	1.1	-8.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4371	17336	8342	2080	584	32713
State Sector	12911	18665	10030	5370	11	46987
Total	17282	36001	18372	7450	596	79700

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	418	1091	431	428	11	2380
Lignite	19	13	52	0	0	84
Hydro	138	27	96	51	11	323
Nuclear	28	28	55	0	0	111
Gas, Naptha & Diesel	28	57	16	0	24	124
RES (Wind, Solar, Biomass & Others)	59	64	127	2	0	252
Total	691	1279	777	480	46	3274

Share of RES in total generation (%)	8.55	5.01	16.37	0.39	0.09	7.70
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	32.66	9.28	35.77	10.93	23.57	20.95

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.004
Based on State Max Demands	1.040

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 : 17-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	979	0.0	13.5	-13.5
2		SASARAM-FATEHPUR	S/C	0	496	0.0	6.9	-6.9
3		GAYA-BALIA	S/C	0	431	0.0	7.9	-7.9
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	198	0.0	4.8	-4.8
6	400 kV	PUSAULI-VARANASI	S/C	0	148	0.0	2.8	-2.8
7		PUSAULI -ALLAHABAD	S/C	0	122	0.0	1.8	-1.8
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1122	0.0	17.2	-17.2
9		PATNA-BALIA	Q/C	0	1149	0.0	23.1	-23.1
10		BIHARSHARIFF-BALIA	D/C	0	395	0.0	6.9	-6.9
11		MOTIHARI-GORAKHPUR	D/C	0	6	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	0	396	0.0	4.4	-4.4
13	220 kV	PUSAULI-SAHUPURI	S/C	0	84	0.0	1.2	-1.2
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.3	0.0	0.3
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						0.3	90.5	-90.2
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1107	0	20.9	0.0	20.9
19		NEW RANCHI-DHARAMJAIGARH	D/C	354	485	0.4	0.0	0.4
20		JHARSUGUDA-DURG	D/C	50	203	0.0	1.7	-1.7
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	117	288	0.0	1.2	-1.2
22		RANCHI-SIPAT	D/C	140	150	0.5	0.0	0.5
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	79	0.0	1.0	-1.0
24		BUDHIPADAR-KORBA	D/C	96	0	1.3	0.0	1.3
ER-WR						23.1	3.8	19.3
Import/Export of ER (With SR)								
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2079.0	0.0	38.7	-38.7
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	692.0	0.0	13.4	-13.4
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2460.0	0.0	44.0	-44.0
28	400 kV	TALCHER-I/C	D/C	401.0	673.0	0.0	2.1	-2.1
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	96.1	-96.1
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	247	4	4.3	0.0	4
31		ALIPURDUAR-BONGAIGAON	D/C	257	0	4.2	0.0	4
32	220 kV	ALIPURDUAR-SALAKATI	D/C	48	19	0.6	0.0	1
ER-NER						9.0	0.0	9.0
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	371	0	9.1	0.0	9.1
NER-NR						9.1	0.0	9.1
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	481	0.0	11.8	-11.8
35		V'CHAL B/B	D/C	452	0	12.1	0.0	12.1
36		APL -MHG	D/C	0	1549	0.0	30.6	-30.6
37	765 kV	GWALIOR-AGRA	D/C	0	1869	0.0	35.4	-35.4
38		PHAGI-GWALIOR	D/C	0	1265	0.0	21.1	-21.1
39		JABALPUR-ORAI	D/C	629	731	0.0	26.0	-26.0
40		GWALIOR-ORAI	S/C	561	0	9.7	0.0	9.7
41		SATNA-ORAI	S/C	0	1264	0.0	27.3	-27.3
42		CHITTORGARH-BANASKANTHA	D/C	44	815	0.0	7.5	-7.5
43		ZERDA-KANKROLI	S/C	126	108	1.0	0.3	0.7
44	400 kV	ZERDA -BHINMAL	S/C	208	92	1.5	0.2	1.3
45		V'CHAL -RIHAND	S/C	986	0	22.2	0.0	22.2
46		RAPP-SHUJALPUR	D/C	182	72	1	0	1
47	220 kV	BHANPURA-RANPUR	S/C	26	37	0.1	0.2	-0.1
48		BHANPURA-MORAK	S/C	41	63	0.2	0.3	-0.2
49		MEHGAON-AURAIYA	S/C	112	0	1.5	0.0	1.5
50		MALANPUR-AURAIYA	S/C	56	14	0.4	0.0	0.4
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						49.2	160.8	-111.6
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	1006	0.0	14.0	-14.0
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	568	1875	1.1	20.4	-19.4
55		WARDHA-NIZAMABAD	D/C	0	2454	0.0	36.5	-36.5
56	400 kV	KOLHAPUR-KUDGI	D/C	920	0	9.7	0.0	9.7
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	0	72	0.0	1.3	-1.3
59		XELDEM-AMBEWADI	S/C	0	80	1.5	0.0	1.5
WR-SR						12.3	72.2	-60.0
TRANSNATIONAL EXCHANGE								
60		BHUTAN						11.3
61		NEPAL						-0.5
62		BANGLADESH						-15.6