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, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 30th Nov 2020

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., डोंगतिएह, 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 29.11.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-नवंबर-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 29th November 2020, 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-2020**

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	42848	48545	34587	16526	2354	144860
Peak Shortage (MW)	200	0	0	0	46	246
Energy Met (MU)	880	1177	755	336	42	3191
Hydro Gen (MU)	108	28	75	43	13	268
Wind Gen (MU)	4	77	43	-	-	124
Solar Gen (MU)*	36.94	29.27	52.04	4.40	0.13	123
Energy Shortage (MU)	0.86	0.00	0.00	0.00	0.54	1.40
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46332	56075	36829	17145	2413	153093
Time Of Maximum Demand Met (From NLDC SCADA)	10:08	10:29	09:40	17:51	17:22	09:43

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	0.033	0.00	0.17	6.24	6.41	79.80	13.78

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	5688	0	108.6	67.8	-1.1	127	0.60
	Haryana	5895	0	118.1	105.2	2.1	334	0.00
	Rajasthan	12672	0	232.7	78.8	0.0	348	0.00
	Delhi	3470	0	58.1	40.5	1.3	234	0.00
	UP	13717	0	246.0	89.4	0.4	391	0.16
	Uttarakhand	1823	0	34.9	25.1	2.0	285	0.10
	HP	1509	0	27.9	20.9	-0.4	89	0.00
	J&K(UT) & Ladakh(UT)	2496	0	51.1	45.3	0.6	281	0.00
	Chandigarh	174	0	3.0	3.0	0.0	17	0.00
WR	Chhattisgarh	3311	0	73.9	20.6	0.3	195	0.00
	Gujarat	15468	0	327.9	74.4	1.6	535	0.00
	MP	14227	0	275.7	166.7	-2.1	566	0.00
	Maharashtra	21562	0	447.9	141.1	-1.7	701	0.00
	Goa	432	0	9.1	8.7	0.1	36	0.00
	DD	300	0	6.9	6.7	0.2	31	0.00
	DNH	778	0	18.1	17.6	0.5	72	0.00
	AMNSIL	764	0	17.4	2.7	0.2	30	0.00
SR	Andhra Pradesh	6607	0	130.8	60.0	0.1	488	0.00
	Telangana	6760	0	135.5	47.0	0.7	506	0.00
	Karnataka	9318	0	174.9	68.2	-0.3	877	0.00
	Kerala	3345	0	66.1	53.3	0.2	234	0.00
	Tamil Nadu	11401	0	241.3	154.7	-1.8	328	0.00
	Puducherry	323	0	6.8	7.0	-0.2	41	0.00
ER	Bihar	4309	0	75.2	73.1	1.0	321	0.00
	DVC	2935	0	62.6	-44.1	-1.0	308	0.00
	Jharkhand	1382	0	24.8	18.5	-1.8	124	0.00
	Odisha	3601	0	67.9	1.7	-0.8	278	0.00
	West Bengal	5788	0	104.5	18.5	-0.1	557	0.00
	Sikkim	90	0	1.4	1.7	-0.2	32	0.00
NER	Arunachal Pradesh	121	1	2.0	2.2	-0.2	21	0.01
	Assam	1361	6	24.1	19.7	1.3	97	0.50
	Manipur	214	2	2.7	3.1	-0.4	26	0.01
	Meghalaya	354	3	6.0	3.4	0.1	29	0.00
	Mizoram	103	2	1.7	1.3	0.1	19	0.01
	Nagaland	136	1	2.1	1.9	0.0	17	0.01
	Tripura	213	1	3.4	2.7	-0.3	14	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	10.6	-4.3	-11.6
Day Peak (MW)	524.0	-382.4	-516.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	268.3	-272.3	117.0	-111.4	-1.6	0.0
Actual(MU)	256.6	-252.9	115.3	-122.6	-0.2	-3.8
O/D/U/D(MU)	-11.7	19.4	-1.7	-11.2	1.4	-3.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6870	15335	10602	3100	659	36565
State Sector	16636	16894	14007	4772	11	52319
Total	23506	32228	24609	7872	670	88885

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	396	1232	346	425	6	2406
Lignite	22	11	23	0	0	57
Hydro	108	28	75	43	13	268
Nuclear	28	33	62	0	0	123
Gas, Naptha & Diesel	22	38	14	0	28	101
RES (Wind, Solar, Biomass & Others)	61	107	128	4	0	302
Total	638	1450	650	473	47	3257
Share of RES in total generation (%)	9.64	7.40	19.76	0.94	0.28	9.26
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.01	11.62	40.97	10.07	28.44	21.29

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
Based on State Max Demands	1.062

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

***Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.**

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 30-Nov-2020

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.2	-7.2
3	765 kV	GAYA-VARANASI	2	0	1155	0.0	12.3	-12.3
4	765 kV	SASARAM-FATEHPUR	1	18	442	0.0	3.9	-3.9
5	765 kV	GAYA-BALIA	1	0	547	0.0	7.8	-7.8
6	400 kV	PUSAULI-VARANASI	1	0	229	0.0	4.6	-4.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	147	0.0	2.5	-2.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1091	0.0	12.4	-12.4
9	400 kV	PATNA-BALIA	4	0	1225	0.0	16.2	-16.2
10	400 kV	BIHARSHARIFF-BALIA	2	0	565	0.0	7.3	-7.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	411	0.0	5.5	-5.5
12	400 kV	BIHARSHARIFF-VARANASI	2	59	283	0.0	1.8	-1.8
13	220 kV	PUSAULI-SAHUPURI	1	69	52	0.0	0.0	0.0
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	81.5	-81.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	553	853	0.0	0.1	-0.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	606	124	6.4	0.0	6.4
3	765 kV	JHARSUGUDA-DURG	2	0	282	0.0	3.4	-3.4
4	400 kV	JHARSUGUDA-RAIGARH	4	220	250	0.0	0.9	-0.9
5	400 kV	RANCHI-SIPAT	2	199	80	1.8	0.0	1.8
6	220 kV	BUDHIPADAR-RAIGARH	1	43	69	0.0	0.3	-0.3
7	220 kV	BUDHIPADAR-KORBA	2	133	23	1.3	0.0	1.3
					ER-WR	9.4	4.7	4.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	531	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1987	0.0	40.4	-40.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2485	0.0	43.2	-43.2
4	400 kV	TALCHER-I/C	2	0	896	0.0	10.2	-10.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	96.1	-96.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	272	0	4.7	0.0	4.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	404	0	6.7	0.0	6.7
3	220 kV	ALIPURDUAR-SALAKATI	2	62	0	1.0	0.0	1.0
					ER-NER	12.4	0.0	12.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	470	0	0.0	10.8	-10.8
					NER-NR	0.0	10.8	-10.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1502	0.0	30.4	-30.4
2	HVDC	VINDHYACHAL B/B	-	194	0	4.6	0.0	4.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1738	0.0	40.4	-40.4
4	765 kV	GWALIOR-AGRA	2	0	2853	0.0	49.7	-49.7
5	765 kV	PHAGI-GWALIOR	2	0	1761	0.0	24.7	-24.7
6	765 kV	JABALPUR-ORAI	2	0	1086	0.0	35.7	-35.7
7	765 kV	GWALIOR-ORAI	1	711	0	11.3	0.0	11.3
8	765 kV	SATNA-ORAI	1	0	1424	0.0	28.4	-28.4
9	765 kV	CHITORGARH-BANASKANTHA	2	0	943	0.0	12.9	-12.9
10	400 kV	ZERDA-KANKROLI	1	31	155	0.0	1.3	-1.3
11	400 kV	ZERDA -BHINMAL	1	0	415	0.0	5.0	-5.0
12	400 kV	VINDHYACHAL -RIHAND	1	974	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	66	436	0.1	3.8	-3.7
14	220 kV	BHANPURA-RANPUR	1	0	144	0.0	2.2	-2.2
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	0.9	-0.9
16	220 kV	MEHGAON-AURAIYA	1	101	0	0.0	0.1	-0.1
17	220 kV	MALANPUR-AURAIYA	1	65	23	0.7	0.0	0.7
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	39.3	235.6	-196.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	515	0.0	9.1	-9.1
2	HVDC	RAIGARH-PUGALUR	2	0	151	0.0	3.2	-3.2
3	765 kV	SOLAPUR-RAICHUR	2	323	2051	0.0	21.5	-21.5
4	765 kV	WARDHA-NIZAMABAD	2	0	1873	0.0	25.2	-25.2
5	400 kV	KOLHAPUR-KUDGI	2	487	0	6.2	0.0	6.2
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	1	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	43	0.8	0.0	0.8
					WR-SR	7.0	59.0	-51.9

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	164	0	158	3.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	254	0	231	5.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	77	0	50	1.2
	NER	132KV-GEYLEGPHU - SALAKATI	15	1	5	0.1
	NER	132kV Motanga-Rangia	14	1	-7	-0.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-52	0	-44	-1.1
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-151	33	-66	-1.6
	ER	132KV-BIHAR - NEPAL	-179	-1	-71	-1.7
	ER	BHERAMARA HVDC(BANGLADESH)	-412	-394	-397	-9.5
BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	52	0	-42	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	52	0	-42	-1.0