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: 28th November 2022

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 27.11.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-नवंबर-2022 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 27th November 2022, 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:** **28-Nov-2022**

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)	44976	54164	37182	19120	2432	157874
Peak Shortage (MW)	0	0	0	455	0	455
Energy Met (MU)	1034	1354	895	389	44	3716
Hydro Gen (MU)	132	26	72	37	14	281
Wind Gen (MU)	5	17	14	-	-	36
Solar Gen (MU)*	104.37	52.78	92.90	5.08	0.89	256
Energy Shortage (MU)	0.03	0.00	0.00	3.50	0.00	3.53
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52659	65126	44401	19633	2552	180848
Time Of Maximum Demand Met (From NLDC SCADA)	10:42	10:43	11:56	17:46	17:19	10:41

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	0.032	0.00	0.43	5.37	5.80	80.05	14.15

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	6739	0	128.7	41.5	-0.7	106	0.00
	Haryana	6376	0	122.2	61.2	-1.1	118	0.00
	Rajasthan	15790	0	301.4	107.4	0.4	379	0.00
	Delhi	3608	0	61.0	54.3	-1.4	118	0.00
	UP	14871	0	296.0	69.7	-0.4	285	0.00
	Uttarakhand	1876	0	34.4	22.7	0.3	103	0.00
	HP	1773	0	31.7	21.3	0.1	79	0.00
	J&K(UT) & Ladakh(UT)	2614	0	55.9	50.4	0.2	235	0.03
	Chandigarh	177	0	3.0	3.2	-0.2	7	0.00
WR	Chhattisgarh	3905	0	86.2	36.4	0.0	431	0.00
	Gujarat	18644	0	380.1	251.9	-0.9	800	0.00
	MP	15919	0	305.6	189.8	-2.3	553	0.00
	Maharashtra	25266	0	526.7	161.8	0.8	602	0.00
	Goa	588	0	11.1	11.7	-0.6	69	0.00
	DNHDDPDCL	1126	0	26.2	26.1	0.1	63	0.00
	AMNSIL	817	0	17.6	11.3	0.1	222	0.00
SR	Andhra Pradesh	9024	0	181.4	71.2	0.7	473	0.00
	Telangana	8846	0	163.5	44.9	0.7	547	0.00
	Karnataka	10775	0	192.7	65.0	0.7	578	0.00
	Kerala	3340	0	69.9	56.3	0.4	231	0.00
	Tamil Nadu	12965	0	279.3	178.9	-0.1	421	0.00
	Puducherry	360	0	8.4	7.8	-0.1	34	0.00
ER	Bihar	4378	0	78.4	66.8	-0.1	180	0.07
	DVC	3230	0	66.6	-41.2	-1.2	262	0.00
	Jharkhand	1535	0	26.9	19.1	-0.8	183	3.43
	Odisha	5425	0	104.3	36.8	-2.1	328	0.00
	West Bengal	5910	0	111.4	-16.0	-1.1	379	0.00
	Sikkim	94	0	1.4	1.1	0.3	47	0.00
NER	Arunachal Pradesh	130	0	2.1	2.0	-0.1	12	0.00
	Assam	1411	0	24.7	17.4	0.2	94	0.00
	Manipur	201	0	2.9	3.0	-0.1	14	0.00
	Meghalaya	356	0	6.9	5.3	0.2	33	0.00
	Mizoram	116	0	1.8	1.5	-0.2	15	0.00
	Nagaland	149	0	2.0	2.0	-0.2	36	0.00
	Tripura	223	0	3.8	2.5	-0.2	15	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.6	2.5	-21.7
Day Peak (MW)	272.5	242.0	-1035.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	139.8	-22.8	78.9	-191.3	-4.7	0.0
Actual(MU)	125.6	-21.9	93.8	-196.5	-5.3	-4.3
O/D/U/D(MU)	-14.2	0.9	14.9	-5.2	-0.6	-4.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7717	11506	7228	2680	584	29714	47
State Sector	8045	15389	7980	2620	142	34175	53
Total	15762	26895	15208	5300	725	63889	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	659	1247	492	562	10	2970	77
Lignite	28	15	49	0	0	92	2
Hydro	133	26	72	37	14	282	7
Nuclear	26	36	65	0	0	127	3
Gas, Naptha & Diesel	11	5	5	0	31	53	1
RES (Wind, Solar, Biomass & Others)	128	71	153	5	1	357	9
Total	985	1400	836	605	55	3880	100

Share of RES in total generation (%)	12.99	5.05	18.26	0.84	1.61	9.20
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.14	9.49	34.61	7.00	26.69	19.74

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
Based on State Max Demands	1.043

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: 28-Nov-2022

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	346	0.0	8.4	-8.4
3	765 kV	GAYA-VARANASI	2	0	726	0.0	11.0	-11.0
4	765 kV	SASARAM-FATEHPUR	1	0	528	0.0	8.9	-8.9
5	765 kV	GAYA-BALIA	1	0	564	0.0	12.1	-12.1
6	400 kV	PUSAULI-VARANASI	1	0	223	0.0	4.6	-4.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	192	0.0	3.7	-3.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	794	0.0	12.1	-12.1
9	400 kV	PATNA-BALIA	2	0	809	0.0	14.7	-14.7
10	400 kV	NAUBATPUR-BALIA	2	0	748	0.0	12.2	-12.2
11	400 kV	BIHARSHARIFF-BALIA	2	0	569	0.0	9.5	-9.5
12	400 kV	MOTIHARI-GORAKHPUR	2	0	522	0.0	8.9	-8.9
13	400 kV	BIHARSHARIFF-VARANASI	2	0	366	0.0	5.8	-5.8
14	220 kV	SAHUPURI-KARAMNASA	1	1	122	0.0	1.1	-1.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	20	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	113.1	-112.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	391	906	0.0	10.5	-10.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	81	981	0.0	9.7	-9.7
3	765 kV	JHARSUGUDA-DURG	2	0	507	0.0	9.7	-9.7
4	400 kV	JHARSUGUDA-RAIGARH	4	25	350	0.0	3.5	-3.5
5	400 kV	RANCHI-SIPAT	2	52	278	0.0	2.1	-2.1
6	220 kV	BUDHIPADAR-RAIGARH	1	1	0	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	109	37	0.9	0.0	0.9
					ER-WR	0.9	36.4	-35.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	758	0.0	11.7	-11.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1653	0.0	30.5	-30.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2350	0.0	40.6	-40.6
4	400 kV	TALCHER-I/C	2	1272	280	2.5	0.0	2.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	82.8	-82.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	1	244	0.0	3.1	-3.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	74	312	0.0	3.5	-3.5
3	220 kV	ALIPURDUAR-SALAKATI	2	7	30	0.0	0.3	-0.3
					ER-NER	0.0	6.9	-6.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	12.1	-12.1
					NER-NR	0.0	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1022	0.0	23.4	-23.4
2	HVDC	VINDHYACHAL B/B	-	443	0	10.2	0.0	10.2
3	HVDC	MUNDRA-MOHINDERGARH	2	1468	0	34.5	0.0	34.5
4	765 kV	GWALIOR-AGRA	2	213	938	0.2	10.8	-10.5
5	765 kV	GWALIOR-PHAGI	2	0	2031	0.0	35.6	-35.6
6	765 kV	JABALPUR-ORAI	2	0	578	0.0	20.4	-20.4
7	765 kV	GWALIOR-ORAI	1	943	0	17.0	0.0	17.0
8	765 kV	SATNA-ORAI	1	0	834	0.0	17.1	-17.1
9	765 kV	BANASKANTHA-CHITORGARH	2	2080	0	35.3	0.0	35.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	2011	0.0	33.2	-33.2
11	400 kV	ZERDA-KANKROLI	1	308	0	4.8	0.0	4.8
12	400 kV	ZERDA -BHINMAL	1	469	37	4.7	0.0	4.7
13	400 kV	VINDHYACHAL -RIHAND	1	978	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	335	285	1.8	1.9	-0.1
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.5	-1.5
17	220 kV	MEHGAON-AURAIYA	1	117	0	0.9	0.0	0.9
18	220 kV	MALANPUR-AURAIYA	1	89	0	1.6	0.0	1.6
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	132.6	144.0	-11.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	297	0	7.2	0.0	7.2
2	HVDC	RAIGARH-PUGALUR	2	0	3005	0.0	62.8	-62.8
3	765 kV	SOLAPUR-RAICHUR	2	1661	916	10.4	4.6	5.8
4	765 kV	WARDHA-NIZAMABAD	2	0	1872	0.0	21.8	-21.8
5	400 kV	KOLHAPUR-KUDGI	2	1448	0	23.5	0.0	23.5
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	1	111	2.1	0.0	2.1
					WR-SR	43.3	89.2	-45.9

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	64	38	53	1.26
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	240	0	228	5.49
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.17
	NER	132kV GELEPHU-SALAKATI	5	0	0	0.01
	NER	132kV MOTANGA-RANGIA	-6	0	-1	-0.02
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.00
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	242	0	105	2.52
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-915	-578	-804	-19.29
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-120	0	-99	-2.38