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: 27th 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 26.11.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-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 26th 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:** **27-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)	47764	56580	42003	19777	2651	168775
Peak Shortage (MW)	0	0	0	576	0	576
Energy Met (MU)	1065	1386	957	402	47	3857
Hydro Gen (MU)	130	45	90	37	15	316
Wind Gen (MU)	3	40	18	-	-	61
Solar Gen (MU)*	106.93	52.34	100.70	4.96	0.89	266
Energy Shortage (MU)	0.49	0.00	0.00	3.79	0.00	4.28
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53493	66570	47002	20336	2755	185963
Time Of Maximum Demand Met (From NLDC SCADA)	10:19	10:55	09:52	18:00	17:32	10:19

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	0.025	0.00	0.01	2.81	2.82	81.85	15.32

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	7084	0	136.3	45.8	-1.2	134	0.00
	Haryana	6965	0	134.7	74.7	-0.2	164	0.00
	Rajasthan	15786	0	301.3	109.8	1.5	285	0.00
	Delhi	3525	0	63.1	56.4	-1.1	196	0.00
	UP	15810	0	300.4	72.1	0.0	660	0.00
	Uttarakhand	2018	0	37.2	25.5	0.3	132	0.23
	HP	1898	0	33.6	22.7	0.0	86	0.01
	J&K(UT) & Ladakh(UT)	2544	0	55.7	50.0	-0.2	130	0.25
	Chandigarh	190	0	3.3	3.2	0.1	18	0.00
WR	Chhattisgarh	3992	0	85.7	35.1	-0.6	441	0.00
	Gujarat	19447	0	395.0	237.2	-3.4	574	0.00
	MP	15531	0	308.3	189.1	-1.0	468	0.00
	Maharashtra	25860	0	539.7	157.6	-4.6	648	0.00
	Goa	652	0	12.2	12.7	-1.1	78	0.00
	DNHDDPDCL	1189	0	27.3	27.2	0.1	57	0.00
	AMNSIL	825	0	17.7	10.2	0.4	315	0.00
SR	Andhra Pradesh	8790	0	184.2	75.1	0.6	601	0.00
	Telangana	9357	0	170.8	45.0	0.2	420	0.00
	Karnataka	11233	0	204.4	69.3	-1.0	449	0.00
	Kerala	3855	0	76.9	57.4	0.9	253	0.00
	Tamil Nadu	15070	0	312.0	200.6	0.9	480	0.00
	Puducherry	399	0	8.9	8.6	-0.4	27	0.00
ER	Bihar	4395	0	78.6	66.4	0.4	130	0.00
	DVC	3346	0	69.8	-42.9	0.1	372	0.00
	Jharkhand	1484	0	27.6	17.9	0.5	253	3.79
	Odisha	5380	0	103.9	33.0	-1.2	469	0.00
	West Bengal	6525	0	120.2	-5.0	-0.6	219	0.00
	Sikkim	108	0	1.7	1.3	0.4	64	0.00
NER	Arunachal Pradesh	131	0	2.2	2.3	-0.3	32	0.00
	Assam	1543	0	26.4	19.3	0.3	136	0.00
	Manipur	213	0	2.9	2.9	0.0	20	0.00
	Meghalaya	388	0	7.0	5.2	0.2	38	0.00
	Mizoram	127	0	1.9	1.7	-0.2	17	0.00
	Nagaland	162	0	2.2	1.9	0.0	38	0.00
	Tripura	230	0	4.4	2.4	0.0	18	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.2	3.9	-19.8
Day Peak (MW)	241.1	-243.0	-1037.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	162.2	-60.0	94.7	-194.0	-2.9	0.0
Actual(MU)	148.8	-68.0	109.0	-192.2	-2.9	-5.3
O/D/U/D(MU)	-13.4	-8.0	14.3	1.7	0.0	-5.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7717	12306	7018	2680	584	30304	47
State Sector	8530	14888	7980	2870	142	34409	53
Total	16247	27194	14998	5550	725	64713	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	664	1293	508	564	10	3039	76
Lignite	26	13	50	0	0	89	2
Hydro	131	45	90	37	15	317	8
Nuclear	26	35	65	0	0	127	3
Gas, Naptha & Diesel	13	7	5	0	30	55	1
RES (Wind, Solar, Biomass & Others)	129	94	166	5	1	394	10
Total	989	1487	884	606	55	4021	100

Share of RES in total generation (%)	13.04	6.30	18.73	0.82	1.60	9.80
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.99	11.67	36.26	6.87	27.82	20.83

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.054

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: 27-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	8.2	-8.2
3	765 kV	GAYA-VARANASI	2	0	621	0.0	9.4	-9.4
4	765 kV	SASARAM-FATEHPUR	1	0	493	0.0	8.7	-8.7
5	765 kV	GAYA-BALIA	1	0	632	0.0	11.6	-11.6
6	400 kV	PUSAULI-VARANASI	1	0	229	0.0	4.4	-4.4
7	400 kV	PUSAULI -ALLAHABAD	1	0	214	0.0	3.6	-3.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	721	0.0	11.1	-11.1
9	400 kV	PATNA-BALIA	2	0	750	0.0	15.3	-15.3
10	400 kV	NAUBATPUR-BALIA	2	0	741	0.0	13.0	-13.0
11	400 kV	BIHARSHARIFF-BALIA	2	0	524	0.0	10.1	-10.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	472	0.0	8.6	-8.6
13	400 kV	BIHARSHARIFF-VARANASI	2	0	357	0.0	5.7	-5.7
14	220 kV	SAHUPURI-KARAMNASA	1	0	109	0.0	1.5	-1.5
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	26	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	111.1	-110.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	615	642	1.0	0.0	1.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	182	740	0.0	5.4	-5.4
3	765 kV	JHARSUGUDA-DURG	2	0	443	0.0	7.5	-7.5
4	400 kV	JHARSUGUDA-RAIGARH	4	105	360	0.0	2.8	-2.8
5	400 kV	RANCHI-SIPAT	2	83	215	0.0	1.6	-1.6
6	220 kV	BUDHIPADAR-RAIGARH	1	18	85	0.0	0.3	-0.3
7	220 kV	BUDHIPADAR-KORBA	2	131	33	1.1	0.0	1.1
					ER-WR	2.1	17.6	-15.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	332	0.0	7.4	-7.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1649	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2822	0.0	50.8	-50.8
4	400 kV	TALCHER-I/C	2	0	354	0.0	6.9	-6.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	97.8	-97.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	279	0.0	4.0	-4.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	365	0.0	4.7	-4.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	36	0.0	0.4	-0.4
					ER-NER	0.0	9.1	-9.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	12.0	-12.0
					NER-NR	0.0	12.0	-12.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	6	1524	0.0	33.8	-33.8
2	HVDC	VINDHYACHAL B/B	-	444	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	1444	0	27.5	0.0	27.5
4	765 kV	GWALIOR-AGRA	2	163	1181	0.1	13.0	-12.9
5	765 kV	GWALIOR-PHAGI	2	0	1992	0.0	34.5	-34.5
6	765 kV	JABALPUR-ORAI	2	0	719	0.0	21.9	-21.9
7	765 kV	GWALIOR-ORAI	1	954	0	16.6	0.0	16.6
8	765 kV	SATNA-ORAI	1	0	868	0.0	17.8	-17.8
9	765 kV	BANASKANTHA-CHITORGARH	2	2159	0	32.2	0.0	32.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2264	0.0	35.9	-35.9
11	400 kV	ZERDA-KANKROLI	1	340	0	4.4	0.0	4.4
12	400 kV	ZERDA -BHINMAL	1	477	140	3.5	0.0	3.5
13	400 kV	VINDHYACHAL -RIHAND	1	971	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	413	405	1.8	2.1	-0.3
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6
17	220 kV	MEHGAON-AURAIYA	1	122	0	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	95	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	122.7	160.5	-37.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	300	0	7.2	0.0	7.2
2	HVDC	RAIGARH-PUGALUR	2	0	3000	0.0	27.0	-27.0
3	765 kV	SOLAPUR-RAICHUR	2	833	2076	2.5	14.5	-12.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2665	0.0	33.4	-33.4
5	400 kV	KOLHAPUR-KUDGI	2	1099	0	17.1	0.0	17.1
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	0	122	2.3	0.0	2.3
					WR-SR	29.1	74.9	-45.8

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)	43	0	8	0.18
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	237	0	215	5.17
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.08
	NER	132kV GELEPHU-SALAKATI	-5	0	-1	-0.02
	NER	132kV MOTANGA-RANGIA	-5	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	-243	-86	163	3.91
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-915	-578	-729	-17.51
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-122	0	-98	-2.34