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: 13th 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 12.11.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12th 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:** **13-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)	46687	55660	39354	19170	2605	163476
Peak Shortage (MW)	0	0	0	493	0	493
Energy Met (MU)	1023	1362	868	413	48	3715
Hydro Gen (MU)	142	31	98	63	17	350
Wind Gen (MU)	3	73	55	-	-	131
Solar Gen (MU)*	98.80	47.46	69.79	5.26	0.79	222
Energy Shortage (MU)	2.49	0.00	0.00	2.19	0.00	4.68
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50279	63701	41651	19884	2778	173766
Time Of Maximum Demand Met (From NLDC SCADA)	10:23	10:34	09:14	17:57	17:28	10:23

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	0.030	0.00	0.35	2.85	3.19	72.99	23.82

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	6495	0	123.3	35.6	-0.7	99	0.00
	Haryana	6005	0	124.5	64.1	-1.4	128	0.00
	Rajasthan	14790	0	289.4	113.8	3.0	392	1.41
	Delhi	3469	0	65.0	58.5	-1.3	103	0.00
	UP	15816	0	298.0	71.4	-0.2	474	0.31
	Uttarakhand	1899	0	35.7	23.9	-0.1	147	0.10
	HP	1572	0	28.3	15.8	-0.3	51	0.00
	J&K(UT) & Ladakh(UT)	2688	120	56.0	48.7	0.4	105	0.67
	Chandigarh	180	0	3.2	3.3	-0.1	24	0.00
WR	Chhattisgarh	3920	0	86.4	35.1	-0.5	117	0.00
	Gujarat	19674	0	402.1	237.7	1.2	753	0.00
	MP	14539	0	297.3	188.5	-3.3	529	0.00
	Maharashtra	24480	0	521.6	161.9	3.8	833	0.00
	Goa	633	0	12.0	12.4	-1.0	35	0.00
	DNHDDPDCL	1177	0	27.0	27.0	0.0	0	0.00
	AMNSIL	740	0	16.0	10.0	-0.3	230	0.00
SR	Andhra Pradesh	8164	0	174.2	62.0	0.8	687	0.00
	Telangana	8827	0	164.6	41.4	0.6	946	0.00
	Karnataka	10478	0	189.4	64.3	-0.6	945	0.00
	Kerala	3616	0	72.6	50.7	0.5	167	0.00
	Tamil Nadu	13056	0	258.3	150.4	0.2	505	0.00
	Puducherry	348	0	9.3	7.5	1.1	58	0.00
ER	Bihar	4631	0	81.1	71.8	0.7	299	0.03
	DVC	3313	0	71.0	-36.0	0.5	343	0.00
	Jharkhand	1574	0	27.8	19.5	0.4	353	2.16
	Odisha	4770	0	103.1	26.1	0.9	628	0.00
	West Bengal	6677	0	128.9	-1.1	-0.5	486	0.00
	Sikkim	96	0	1.6	1.4	0.2	40	0.00
NER	Arunachal Pradesh	119	0	2.0	1.7	0.0	38	0.00
	Assam	1631	0	28.5	20.5	0.9	115	0.00
	Manipur	211	0	2.7	2.8	0.0	19	0.00
	Meghalaya	363	0	6.7	4.6	0.1	35	0.00
	Mizoram	128	0	1.8	1.4	-0.2	18	0.00
	Nagaland	134	0	2.3	1.8	0.1	36	0.00
	Tripura	234	0	3.9	2.7	-0.1	34	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.0	7.7	-23.1
Day Peak (MW)	472.0	344.0	-1035.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	150.1	-32.9	67.1	-182.0	-2.2	0.0
Actual(MU)	121.3	-26.3	81.5	-178.3	-3.1	-4.9
O/D/U/D(MU)	-28.8	6.6	14.5	3.7	-0.9	-4.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7247	13786	8658	3050	969	33709	47
State Sector	9395	16540	9733	2860	152	38679	53
Total	16642	30325	18391	5910	1120	72388	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	645	1210	455	544	7	2862	74
Lignite	29	15	42	0	0	86	2
Hydro	143	31	98	63	17	351	9
Nuclear	26	35	70	0	0	131	3
Gas, Naptha & Diesel	12	3	6	0	31	51	1
RES (Wind, Solar, Biomass & Others)	113	121	162	5	1	402	10
Total	968	1415	832	612	56	3883	100

Share of RES in total generation (%)	11.67	8.55	19.46	0.86	1.41	10.35
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.11	13.19	39.57	11.16	32.38	22.77

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.073

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: 13-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	345	0.0	8.1	-8.1
3	765 kV	GAYA-VARANASI	2	0	877	0.0	12.9	-12.9
4	765 kV	SASARAM-FATEHPUR	1	0	543	0.0	9.9	-9.9
5	765 kV	GAYA-BALIA	1	0	508	0.0	9.4	-9.4
6	400 kV	PUSAULI-VARANASI	1	0	201	0.0	4.3	-4.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	212	0.0	3.9	-3.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	805	0.0	12.7	-12.7
9	400 kV	PATNA-BALIA	2	0	661	0.0	12.2	-12.2
10	400 kV	NAUBATPUR-BALIA	2	0	713	0.0	12.3	-12.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	451	0.0	7.4	-7.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	508	0.0	8.7	-8.7
13	400 kV	BIHARSHARIFF-VARANASI	2	0	409	0.0	6.0	-6.0
14	220 kV	SAHUPURI-KARAMNASA	1	0	121	0.0	1.6	-1.6
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	32	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	109.5	-109.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1256	0	18.8	0.0	18.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	375	538	0.0	1.5	-1.5
3	765 kV	JHARSUGUDA-DURG	2	0	375	0.0	5.6	-5.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	477	0.0	5.4	-5.4
5	400 kV	RANCHI-SIPAT	2	182	206	0.1	0.0	0.1
6	220 kV	BUDHIPADAR-RAIGARH	1	21	97	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	140	16	1.7	0.0	1.7
					ER-WR	20.7	13.4	7.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	550	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	45.7	-45.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2550	0.0	45.4	-45.4
4	400 kV	TALCHER-I/C	2	0	690	0.0	13.0	-13.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	103.6	-103.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	365	0.0	5.3	-5.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	515	0.0	7.4	-7.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	41	0.0	0.5	-0.5
					ER-NER	0.0	13.2	-13.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	702	0.0	16.8	-16.8
					NER-NR	0.0	16.8	-16.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2	0.0	0.0	0.0
2	HVDC	VINDHYACHAL B/B	-	438	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	1440	0	0.0	25.5	-25.5
4	765 kV	GWALIOR-AGRA	2	0	1450	0.0	19.8	-19.8
5	765 kV	GWALIOR-PHAGI	2	0	2167	0.0	38.9	-38.9
6	765 kV	JABALPUR-ORAI	2	0	710	0.0	27.7	-27.7
7	765 kV	GWALIOR-ORAI	1	1036	0	20.1	0.0	20.1
8	765 kV	SATNA-ORAI	1	0	864	0.0	17.7	-17.7
9	765 kV	BANASKANTHA-CHITORGARH	2	2242	0	30.6	0.0	30.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	1524	0.0	22.5	-22.5
11	400 kV	ZERDA-KANKROLI	1	355	11	4.5	0.0	4.5
12	400 kV	ZERDA -BHINMAL	1	518	180	4.5	0.0	4.5
13	400 kV	VINDHYACHAL -RIHAND	1	959	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	282	340	0.0	1.3	-1.3
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
17	220 kV	MEHGAON-AURAIYA	1	127	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	96	0	1.9	0.0	1.9
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	97.0	155.4	-58.4
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	605	0.0	14.7	-14.7
3	765 kV	SOLAPUR-RAICHUR	2	964	1208	0.0	1.6	-1.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2079	0.0	26.6	-26.6
5	400 kV	KOLHAPUR-KUDGI	2	1254	0	21.8	0.0	21.8
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	104	2.2	0.0	2.2
					WR-SR	31.2	42.8	-11.6

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)	92	0	69	1.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	375	287	302	7.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	15	0	-17	-0.4
	NER	132kV GELEPHU-SALAKATI	-8	-1	-4	-0.1
	NER	132kV MOTANGA-RANGIA	-28	-8	-16	-0.4
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	344	242	320	7.7
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-923	-732	-859	-20.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-112	0	-103	-2.5