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: 1st December 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 30.11.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-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 30th 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:** **01-Dec-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)	48697	56170	41815	19304	2606	168592
Peak Shortage (MW)	0	0	0	528	0	528
Energy Met (MU)	1076	1381	965	396	47	3866
Hydro Gen (MU)	133	42	90	36	14	314
Wind Gen (MU)	15	86	32	-	-	133
Solar Gen (MU)*	100.00	49.49	110.81	4.96	0.83	266
Energy Shortage (MU)	4.40	0.00	0.00	3.97	0.00	8.37
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54195	66267	48021	20007	2750	187382
Time Of Maximum Demand Met (From NLDC SCADA)	10:11	10:59	11:46	17:57	17:14	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	0.031	0.00	0.32	3.90	4.22	80.72	15.06

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	7271	0	139.4	45.9	-1.8	64	0.00
	Haryana	7470	0	137.3	80.5	0.0	210	0.85
	Rajasthan	15282	372	300.6	111.2	2.0	406	3.36
	Delhi	3751	0	66.5	60.6	-1.7	131	0.00
	UP	15862	0	300.2	78.7	-1.3	523	0.04
	Uttarakhand	2051	0	37.7	25.8	0.5	195	0.15
	HP	1965	0	34.2	23.8	0.2	96	0.00
	J&K(UT) & Ladakh(UT)	2557	0	56.4	50.7	-0.3	123	0.00
	Chandigarh	207	0	3.4	3.5	-0.1	14	0.00
WR	Chhattisgarh	4043	0	87.4	31.4	-0.4	140	0.00
	Gujarat	19037	0	392.2	223.3	-4.0	760	0.00
	MP	16085	0	311.7	190.1	-2.8	862	0.00
	Maharashtra	25394	0	535.3	166.5	-2.7	1067	0.00
	Goa	635	0	11.9	12.8	-1.5	27	0.00
	DNHDDPDCL	1182	0	27.2	27.3	-0.1	44	0.00
	AMNSIL	770	0	15.6	8.9	0.2	243	0.00
SR	Andhra Pradesh	9504	0	188.1	74.6	0.3	750	0.00
	Telangana	9953	0	173.4	44.6	-0.1	606	0.00
	Karnataka	11790	0	212.4	70.7	-1.1	499	0.00
	Kerala	3865	0	76.8	53.6	0.5	248	0.00
	Tamil Nadu	14522	0	306.0	184.2	1.3	908	0.00
	Puducherry	391	0	8.6	8.1	-0.2	49	0.00
ER	Bihar	4464	0	79.7	66.9	1.0	192	0.00
	DVC	3378	0	70.3	-42.7	-0.4	234	0.00
	Jharkhand	1498	127	27.6	18.7	-0.3	362	3.97
	Odisha	4779	0	94.7	29.5	-1.3	335	0.00
	West Bengal	6697	0	121.6	6.0	-0.5	369	0.00
	Sikkim	118	0	1.8	1.5	0.3	71	0.00
NER	Arunachal Pradesh	142	0	2.3	2.1	0.0	40	0.00
	Assam	1543	0	26.7	19.1	0.6	173	0.00
	Manipur	202	0	2.8	2.9	-0.1	23	0.00
	Meghalaya	372	0	7.1	5.3	0.2	36	0.00
	Mizoram	132	0	1.9	1.6	-0.2	17	0.00
	Nagaland	165	0	2.2	2.0	0.1	26	0.00
	Tripura	254	0	4.4	3.4	0.1	24	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.6	2.1	-23.0
Day Peak (MW)	483.9	216.0	-1048.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	164.9	-97.3	104.2	-169.4	-2.4	0.0
Actual(MU)	151.2	-103.9	116.6	-166.8	-3.0	-5.9
O/D/U/D(MU)	-13.7	-6.6	12.3	2.7	-0.6	-5.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7217	11406	9018	3570	559	31769	50
State Sector	8050	14587	7310	2160	142	32248	50
Total	15267	25992	16328	5730	700	64017	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	663	1300	515	542	11	3030	75
Lignite	33	11	37	0	0	81	2
Hydro	134	42	90	36	14	315	8
Nuclear	26	36	50	0	0	112	3
Gas, Naptha & Diesel	11	5	4	0	30	51	1
RES (Wind, Solar, Biomass & Others)	133	137	196	5	1	471	12
Total	1000	1530	892	582	55	4059	100

Share of RES in total generation (%)	13.29	8.92	21.93	0.85	1.50	11.60
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.28	14.02	37.65	6.95	26.48	22.12

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.053

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: 01-Dec-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	186	570	0.0	6.6	-6.6
4	765 kV	SASARAM-FATEHPUR	1	0	28	0.0	0.2	-0.2
5	765 kV	GAYA-BALIA	1	0	593	0.0	11.5	-11.5
6	400 kV	PUSAULI-VARANASI	1	0	231	0.0	4.8	-4.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	180	0.0	3.4	-3.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	713	0.0	8.8	-8.8
9	400 kV	PATNA-BALIA	2	0	673	0.0	12.0	-12.0
10	400 kV	NAUBATPUR-BALIA	2	0	608	0.0	9.6	-9.6
11	400 kV	BIHARSHARIFF-BALIA	2	0	532	0.0	8.3	-8.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	442	0.0	6.4	-6.4
13	400 kV	BIHARSHARIFF-VARANASI	2	31	350	0.0	4.2	-4.2
14	220 kV	SAHUPURI-KARAMNASA	1	0	124	0.0	1.6	-1.6
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	14	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.6	85.7	-85.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	698	431	0.0	0.4	-0.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	444	528	0.6	0.0	0.6
3	765 kV	JHARSUGUDA-DURG	2	0	483	0.0	7.9	-7.9
4	400 kV	JHARSUGUDA-RAIGARH	4	75	401	0.0	4.1	-4.1
5	400 kV	RANCHI-SIPAT	2	132	203	0.0	0.7	-0.7
6	220 kV	BUDHIPADAR-RAIGARH	1	27	109	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	144	46	1.2	0.0	1.2
					ER-WR	1.8	14.1	-12.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	537	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1986	0.0	37.7	-37.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2933	0.0	50.6	-50.6
4	400 kV	TALCHER-I/C	2	215	655	0.0	5.1	-5.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	100.6	-100.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	256	0.0	4.0	-4.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	187	315	0.0	4.9	-4.9
3	220 kV	ALIPURDUAR-SALAKATI	2	5	43	0.0	0.6	-0.6
					ER-NER	0.0	9.5	-9.5
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	2551	0.0	42.5	-42.5
2	HVDC	VINDHYACHAL B/B	-	227	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	1445	0	28.9	0.0	28.9
4	765 kV	GWALIOR-AGRA	2	144	1081	0.2	13.0	-12.8
5	765 kV	GWALIOR-PHAGI	2	0	1923	0.0	31.1	-31.1
6	765 kV	JABALPUR-ORAI	2	0	742	0.0	21.4	-21.4
7	765 kV	GWALIOR-ORAI	1	930	0	15.0	0.0	15.0
8	765 kV	SATNA-ORAI	1	0	889	0.0	17.4	-17.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1639	112	19.1	0.0	19.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2309	0.0	40.5	-40.5
11	400 kV	ZERDA-KANKROLI	1	256	47	2.9	0.0	2.9
12	400 kV	ZERDA -BHINMAL	1	408	214	3.1	0.0	3.1
13	400 kV	VINDHYACHAL -RIHAND	1	967	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUJALPUR	2	367	298	1.8	1.6	0.2
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	147	0	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	115	0	2.7	0.0	2.7
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	102.9	169.1	-66.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	987	0	17.5	0.0	17.5
2	HVDC	RAIGARH-PUGALUR	2	0	1502	0.0	30.2	-30.2
3	765 kV	SOLAPUR-RAICHUR	2	199	2063	0.1	18.3	-18.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2697	0.0	38.6	-38.6
5	400 kV	KOLHAPUR-KUDGI	2	1123	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	119	2.3	0.0	2.3
					WR-SR	36.9	87.1	-50.2

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)	78	0	2	0.05
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	415	218	230	5.53
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.99
	NER	132kV GELEPHU-SALAKATI	5	0	1	0.02
	NER	132kV MOTANGA-RANGIA	13	0	2	0.04
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-21	0	0	-0.01
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	237	0	88	2.12
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-910	-673	-843	-20.24
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-138	0	-113	-2.72