National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 11th 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 10.12.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10- दिसंबर -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 10th December 2022, is available at the NLDC website.

धन्यवाद,

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day **Date of Reporting:** **11-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)	50447	55810	38044	19183	2617	166101
Peak Shortage (MW)	15	0	0	489	0	504
Energy Met (MU)	1092	1361	835	393	47	3727
Hydro Gen (MU)	129	34	71	30	12	276
Wind Gen (MU)	18	79	123	-	-	220
Solar Gen (MU)*	101.13	50.58	43.08	1.35	0.81	197
Energy Shortage (MU)	0.60	0.00	0.00	4.82	0.00	5.42
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54772	65657	42742	19811	2730	181828
Time Of Maximum Demand Met (From NLDC SCADA)	09:40	10:22	09:32	17:51	17:36	09:50

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	0.167	1.08	5.00	15.36	21.43	44.05	34.52

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	7605	0	144.1	47.6	-1.1	97	0.00
	Haryana	7486	0	141.1	70.9	0.0	285	0.00
	Rajasthan	15478	0	301.3	104.2	-1.8	156	0.49
	Delhi	3779	0	64.5	58.0	-1.1	124	0.00
	UP	16621	0	307.4	80.1	0.2	347	0.00
	Uttarakhand	2117	0	38.8	28.1	0.4	168	0.11
	HP	1902	0	34.3	25.6	-0.4	53	0.00
	J&K(UT) & Ladakh(UT)	2781	0	57.1	55.2	-2.7	228	0.00
	Chandigarh	210	0	3.5	3.5	0.0	40	0.00
WR	Chhattisgarh	4205	0	90.6	35.8	0.5	210	0.00
	Gujarat	18493	0	381.1	230.1	-5.8	459	0.00
	MP	16338	0	311.1	184.0	-3.7	479	0.00
	Maharashtra	25413	0	521.6	154.8	-0.6	748	0.00
	Goa	622	0	12.3	11.4	0.3	97	0.00
	DNHDDPDCL	1186	0	27.0	27.1	-0.1	55	0.00
	AMNSIL	807	0	17.7	10.5	0.6	267	0.00
SR	Andhra Pradesh	7327	0	149.5	39.9	-1.6	632	0.00
	Telangana	10399	0	178.1	67.1	1.3	1048	0.00
	Karnataka	11483	0	193.6	73.9	2.0	579	0.00
	Kerala	3474	0	71.0	54.5	0.1	192	0.00
	Tamil Nadu	12684	0	236.3	107.2	-4.0	820	0.00
	Puducherry	352	0	6.3	6.7	-1.1	61	0.00
ER	Bihar	4524	0	80.2	67.0	1.4	210	0.00
	DVC	3379	0	71.1	-43.8	0.2	232	0.00
	Jharkhand	1408	0	27.3	18.7	-0.2	226	4.82
	Odisha	4589	0	93.1	32.4	-3.8	253	0.00
	West Bengal	6723	0	119.3	-1.6	-1.2	276	0.00
	Sikkim	107	0	1.7	1.7	0.0	13	0.00
NER	Arunachal Pradesh	140	0	2.4	2.0	0.2	51	0.00
	Assam	1529	0	26.1	19.7	-0.5	85	0.00
	Manipur	224	0	3.2	3.2	0.0	24	0.00
	Meghalaya	384	0	7.1	5.5	0.1	50	0.00
	Mizoram	136	0	1.9	1.8	-0.3	8	0.00
	Nagaland	140	0	2.3	2.1	0.0	19	0.00
	Tripura	258	0	3.6	1.4	0.0	36	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	2.7	0.8	-19.4
Day Peak (MW)	230.0	158.0	-1020.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	173.6	-49.1	50.5	-174.6	-0.4	0.0
Actual(MU)	163.9	-44.4	42.4	-166.8	-0.1	-5.0
O/D/U/D(MU)	-9.7	4.7	-8.1	7.8	0.3	-5.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7594	13786	7718	2910	1244	33251	50
State Sector	6870	15022	8930	2035	98	32955	50
Total	14464	28808	16648	4945	1342	66206	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	672	1231	442	559	8	2912	75
Lignite	25	13	34	0	0	72	2
Hydro	130	34	71	30	12	277	7
Nuclear	26	20	65	0	0	111	3
Gas, Naptha & Diesel	12	5	5	0	30	52	1
RES (Wind, Solar, Biomass & Others)	142	131	190	1	1	465	12
Total	1007	1434	808	590	50	3890	100

Share of RES in total generation (%)	14.11	9.11	23.57	0.22	1.61	11.96
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.59	12.87	40.45	5.35	25.18	21.95

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.069

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: 11-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	30	861	0.0	11.2	-11.2
4	765 kV	SASARAM-FATEHPUR	1	0	533	0.0	7.6	-7.6
5	765 kV	GAYA-BALIA	1	0	556	0.0	10.7	-10.7
6	400 kV	PUSAULI-VARANASI	1	0	207	0.0	4.2	-4.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	201	0.0	4.0	-4.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	839	0.0	10.4	-10.4
9	400 kV	PATNA-BALIA	2	0	618	0.0	10.2	-10.2
10	400 kV	NAUBATPUR-BALIA	2	0	664	0.0	10.9	-10.9
11	400 kV	BIHARSHARIFF-BALIA	2	0	393	0.0	4.6	-4.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	568	0.0	8.8	-8.8
13	400 kV	BIHARSHARIFF-VARANASI	2	0	394	0.0	4.8	-4.8
14	220 kV	SAHUPURI-KARAMNASA	1	0	117	0.0	0.0	0.0
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	35	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	95.4	-95.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	530	855	0.0	3.1	-3.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	708	583	1.9	0.0	1.9
3	765 kV	JHARSUGUDA-DURG	2	0	547	0.0	9.1	-9.1
4	400 kV	JHARSUGUDA-RAIGARH	4	93	479	0.0	5.3	-5.3
5	400 kV	RANCHI-SIPAT	2	189	271	0.0	1.7	-1.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	142	1.8	0.0	1.8
7	220 kV	BUDHIPADAR-KORBA	2	117	64	0.0	0.8	-0.8
					ER-WR	3.7	20.0	-16.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	563	0.0	9.9	-9.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1648	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2764	0.0	44.4	-44.4
4	400 kV	TALCHER-I/C	2	249	666	2.1	0.0	2.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	93.9	-93.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	346	0.0	5.0	-5.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	425	0.0	5.6	-5.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	48	0.0	0.6	-0.6
					ER-NER	0.0	11.2	-11.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	12.2	-12.2
					NER-NR	0.0	12.2	-12.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1023	0.0	15.5	-15.5
2	HVDC	VINDHYACHAL B/B	-	45	0	1.2	0.0	1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	1193	0.0	16.3	-16.3
5	765 kV	GWALIOR-PHAGI	2	0	2187	0.0	34.9	-34.9
6	765 kV	JABALPUR-ORAI	2	0	834	0.0	26.3	-26.3
7	765 kV	GWALIOR-ORAI	1	1061	0	16.4	0.0	16.4
8	765 kV	SATNA-ORAI	1	0	958	0.0	18.4	-18.4
9	765 kV	BANASKANTHA-CHITORGARH	2	2341	0	32.1	0.0	32.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	2444	0.0	37.7	-37.7
11	400 kV	ZERDA-KANKROLI	1	354	0	4.6	0.0	4.6
12	400 kV	ZERDA -BHINMAL	1	541	18	5.4	0.0	5.4
13	400 kV	VINDHYACHAL -RIHAND	1	969	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	387	386	1.7	3.3	-1.6
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	119	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	86	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	86.1	153.9	-67.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	987	0	23.8	0.0	23.8
2	HVDC	RAIGARH-PUGALUR	2	957	1498	0.0	7.2	-7.2
3	765 kV	SOLAPUR-RAICHUR	2	1416	1078	7.0	6.3	0.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2427	0.0	32.8	-32.8
5	400 kV	KOLHAPUR-KUDGI	2	1147	0	20.5	0.0	20.5
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	0	110	2.2	0.0	2.2
					WR-SR	53.6	46.3	7.2

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)	0	0	0	-0.47
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	181	123	161	3.87
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.55
	NER	132kV GELEPHU-SALAKATI	5	-4	0	0.00
	NER	132kV MOTANGA-RANGIA	-19	1	-8	-0.18
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-0.31
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	181	0	48	1.14
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-917	-485	-727	-17.45
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-103	0	-83	-1.98