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: 17th 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 16.12.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16- 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 16th 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:** 17-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)	49575	57735	41616	19697	2579	171202
Peak Shortage (MW)	3129	0	0	486	0	3615
Energy Met (MU)	1103	1417	935	401	46	3902
Hydro Gen (MU)	128	47	87	32	11	304
Wind Gen (MU)	1	42	39	-	-	81
Solar Gen (MU)*	109.72	45.84	122.32	5.04	0.56	283
Energy Shortage (MU)	27.35	0.00	0.00	3.84	0.00	31.19
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56667	67939	46551	20548	2596	188893
Time Of Maximum Demand Met (From NLDC SCADA)	10:14	11:10	07:45	17:46	17:29	11:56

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	0.171	3.54	9.05	13.69	26.28	48.89	24.82

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	7097	0	134.8	38.8	-1.8	62	0.00
	Haryana	7984	0	145.5	88.9	-1.1	164	2.08
	Rajasthan	15911	0	301.1	122.5	0.6	245	20.27
	Delhi	4084	0	71.2	62.7	-0.3	187	0.00
	UP	17154	0	314.0	73.7	1.3	545	3.22
	Uttarakhand	2160	0	40.6	27.7	0.6	270	0.53
	HP	1941	0	32.8	25.0	-0.4	185	1.10
	J&K(UT) & Ladakh(UT)	2683	0	59.2	55.8	-1.7	241	0.15
	Chandigarh	233	0	3.7	3.6	0.1	41	0.00
WR	Chhattisgarh	4561	0	99.4	53.1	0.2	228	0.00
	Gujarat	19153	0	400.6	261.6	2.9	1136	0.00
	MP	15784	0	305.6	190.7	-2.2	527	0.00
	Maharashtra	26077	0	552.6	170.1	1.9	760	0.00
	Goa	592	0	13.0	12.1	0.3	68	0.00
	DNHDDPDCL	1209	0	27.7	27.9	-0.2	73	0.00
	AMNSIL	771	0	17.7	10.9	0.2	266	0.00
SR	Andhra Pradesh	8002	0	173.5	60.2	1.1	254	0.00
	Telangana	11917	0	203.8	79.6	-0.4	574	0.00
	Karnataka	9772	0	185.0	49.9	-2.2	508	0.00
	Kerala	3686	0	71.0	49.4	-0.1	125	0.00
	Tamil Nadu	14275	0	293.3	150.6	0.5	715	0.00
	Puducherry	386	0	8.5	7.7	0.2	95	0.00
ER	Bihar	4648	154	83.9	70.9	0.0	192	0.60
	DVC	3499	0	70.4	-33.6	0.0	316	0.00
	Jharkhand	1524	307	27.7	19.0	0.0	235	3.24
	Odisha	4823	0	93.1	30.9	-2.0	100	0.00
	West Bengal	6760	0	124.5	0.5	-2.4	229	0.00
	Sikkim	123	0	1.9	1.9	0.0	24	0.00
NER	Arunachal Pradesh	155	0	2.3	2.4	-0.3	34	0.00
	Assam	1477	0	25.6	20.1	-0.8	90	0.00
	Manipur	241	0	3.3	3.3	0.0	27	0.00
	Meghalaya	378	0	7.0	5.6	0.1	40	0.00
	Mizoram	139	0	1.9	1.9	-0.3	16	0.00
	Nagaland	141	0	2.4	2.3	0.0	13	0.00
	Tripura	225	0	3.8	3.9	-0.2	14	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	1.7	-2.8	-18.9
Day Peak (MW)	187.3	-215.0	-987.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	148.3	-34.5	56.8	-171.1	0.5	0.0
Actual(MU)	140.2	-64.8	102.3	-177.0	-0.5	0.2
O/D/U/D(MU)	-8.2	-30.3	45.5	-5.9	-1.0	0.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5989	13971	7218	2630	859	30666	46
State Sector	8975	16054	7425	2852	199	35504	54
Total	14964	30024	14643	5482	1058	66170	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	721	1300	544	578	9	3152	77
Lignite	21	12	26	0	0	59	1
Hydro	129	47	87	32	11	305	7
Nuclear	26	26	58	0	0	110	3
Gas, Naptha & Diesel	16	6	5	0	30	58	1
RES (Wind, Solar, Biomass & Others)	135	89	180	5	1	411	10
Total	1048	1481	900	615	51	4095	100

Share of RES in total generation (%)	12.92	6.03	20.02	0.82	1.10	10.03
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.68	10.97	36.09	6.01	22.87	20.17

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.056

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: 17-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	8.3	-8.3
3	765 kV	GAYA-VARANASI	2	0	695	0.0	11.2	-11.2
4	765 kV	SASARAM-FATEHPUR	1	0	482	0.0	9.4	-9.4
5	765 kV	GAYA-BALIA	1	0	637	0.0	12.2	-12.2
6	400 kV	PUSAULI-VARANASI	1	0	249	0.0	4.8	-4.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	178	0.0	3.4	-3.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	748	0.0	13.4	-13.4
9	400 kV	PATNA-BALIA	2	0	606	0.0	10.0	-10.0
10	400 kV	NAUBATPUR-BALIA	2	0	786	0.0	15.1	-15.1
11	400 kV	BIHARSHARIFF-BALIA	2	0	434	0.0	8.6	-8.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	525	0.0	10.0	-10.0
13	400 kV	BIHARSHARIFF-VARANASI	2	0	283	0.0	4.9	-4.9
14	220 kV	SAHUPURI-KARAMNASA	1	0	113	0.0	1.4	-1.4
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	46	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	112.7	-112.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	681	291	3.4	0.0	3.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	435	504	0.0	0.0	0.0
3	765 kV	JHARSUGUDA-DURG	2	0	635	0.0	10.4	-10.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	652	0.0	10.4	-10.4
5	400 kV	RANCHI-SIPAT	2	31	300	0.0	2.1	-2.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	150	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	37	149	0.0	1.4	-1.4
					ER-WR	3.4	26.5	-23.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	242	549	0.0	4.6	-4.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1984	0.0	40.9	-40.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	3510	0.0	60.8	-60.8
4	400 kV	TALCHER-I/C	2	694	254	3.2	0.0	3.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	106.2	-106.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	256	0	4.1	0.0	4.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	437	0	7.5	0.0	7.5
3	220 kV	ALIPURDUAR-SALAKATI	2	40	0	0.7	0.0	0.7
					ER-NER	12.3	0.0	12.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	472	0	11.7	0.0	11.7
					NER-NR	11.7	0.0	11.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1518	0.0	30.8	-30.8
2	HVDC	VINDHYACHAL B/B	-	272	101	2.9	1.4	1.4
3	HVDC	MUNDRA-MOHINDERGARH	2	1444	0	0.0	25.2	-25.2
4	765 kV	GWALIOR-AGRA	2	202	1143	0.3	13.6	-13.3
5	765 kV	GWALIOR-PHAGI	2	0	2051	0.0	38.0	-38.0
6	765 kV	JABALPUR-ORAI	2	0	875	0.0	24.5	-24.5
7	765 kV	GWALIOR-ORAI	1	1000	0	18.4	0.0	18.4
8	765 kV	SATNA-ORAI	1	0	949	0.0	17.8	-17.8
9	765 kV	BANASKANTHA-CHITORGARH	2	2459	0	32.9	0.0	32.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2103	0.0	33.0	-33.0
11	400 kV	ZERDA-KANKROLI	1	389	0	4.5	0.0	4.5
12	400 kV	ZERDA -BHINMAL	1	541	172	3.8	0.0	3.8
13	400 kV	VINDHYACHAL -RIHAND	1	956	0	22.6	0.0	22.6
14	400 kV	RAPP-SHUJALPUR	2	362	443	1.5	2.9	-1.4
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7
17	220 kV	MEHGAON-AURAIYA	1	172	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	132	0	2.0	0.0	2.0
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	90.2	188.9	-98.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	990	0	20.0	0.0	20.0
2	HVDC	RAIGARH-PUGALUR	2	2874	602	24.8	0.0	24.8
3	765 kV	SOLAPUR-RAICHUR	2	1045	1634	2.2	13.4	-11.2
4	765 kV	WARDHA-NIZAMABAD	2	0	3350	0.0	46.9	-46.9
5	400 kV	KOLHAPUR-KUDGI	2	1381	0	21.7	0.0	21.7
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	104	1.6	0.0	1.6
					WR-SR	70.3	60.3	9.9

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)	0	0	0	-0.82
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	219	0	135	3.23
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.80
	NER	132kV GELEPHU-SALAKATI	1	0	0	0.01
	NER	132kV MOTANGA-RANGIA	13	0	4	0.09
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-67	0	-50	-1.21
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-148	138	-66	-1.58
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-889	-624	-704	-16.90
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-98	0	-83	-1.98