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: 12th 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 11.12.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11- 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 11th 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: 12-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)	47466	52825	34731	17964	2443	155429
Peak Shortage (MW)	50	0	0	418	0	468
Energy Met (MU)	1057	1338	781	389	44	3609
Hydro Gen (MU)	129	29	52	29	11	251
Wind Gen (MU)	43	89	81	-	-	212
Solar Gen (MU)*	101.33	46.11	50.22	2.19	0.78	201
Energy Shortage (MU)	0.94	0.05	0.00	3.32	0.00	4.31
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53183	65912	39006	19546	2526	175742
Time Of Maximum Demand Met (From NLDC SCADA)	11:49	10:45	09:26	18:00	18:02	11:16

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	0.132	2.55	1.91	6.75	11.20	55.06	33.73

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	7309	0	139.1	48.0	-2.2	96	0.00
	Haryana	6760	0	127.5	65.3	-0.6	78	0.00
	Rajasthan	15556	0	300.8	85.7	-1.9	198	0.00
	Delhi	3809	0	62.8	55.8	-1.3	125	0.00
	UP	15998	0	301.1	82.3	-1.7	344	0.00
	Uttarakhand	1936	0	35.8	24.4	-0.4	127	0.04
	HP	1712	0	30.7	22.1	-0.4	129	0.80
	J&K(UT) & Ladakh(UT)	2712	50	56.5	53.7	-2.1	34	0.10
	Chandigarh	196	0	3.2	3.6	-0.4	36	0.00
WR	Chhattisgarh	4201	0	91.9	36.4	-0.1	241	0.00
	Gujarat	18059	0	368.5	213.8	-2.6	681	0.00
	MP	16368	0	308.4	185.5	-3.9	476	0.00
	Maharashtra	25509	0	513.4	168.1	-1.1	510	0.00
	Goa	558	0	12.4	11.3	0.5	85	0.05
	DNHDDPDCL	1120	0	26.1	26.1	0.0	75	0.00
	AMNSIL	791	0	17.4	10.8	0.1	313	0.00
SR	Andhra Pradesh	7214	0	147.4	41.3	-1.0	482	0.00
	Telangana	9752	0	170.8	66.9	-1.3	393	0.00
	Karnataka	8405	0	152.3	51.6	-4.4	635	0.00
	Kerala	3152	0	64.0	50.8	-0.2	141	0.00
	Tamil Nadu	11346	0	239.5	131.3	-4.8	648	0.00
	Puducherry	307	0	7.0	6.5	-0.2	46	0.00
ER	Bihar	4538	0	81.7	68.8	0.7	122	0.00
	DVC	3311	0	69.1	-39.7	-1.1	207	0.00
	Jharkhand	1423	0	28.4	20.0	-0.5	338	3.32
	Odisha	4694	0	95.3	33.0	-2.8	287	0.00
	West Bengal	6283	0	113.4	-2.0	-2.0	222	0.00
	Sikkim	98	0	1.4	1.5	0.0	11	0.00
NER	Arunachal Pradesh	133	0	2.3	2.1	0.0	73	0.00
	Assam	1402	0	24.1	17.9	-1.1	52	0.00
	Manipur	215	0	3.1	3.1	-0.1	21	0.00
	Meghalaya	350	0	6.8	5.4	0.0	34	0.00
	Mizoram	113	0	1.9	1.7	-0.2	7	0.00
	Nagaland	132	0	2.2	2.0	0.0	21	0.00
	Tripura	216	0	3.6	1.5	0.1	73	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	2.2	0.1	-22.5
Day Peak (MW)	191.5	107.0	-1034.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	140.6	-45.6	53.9	-151.1	2.2	0.0
Actual(MU)	123.9	-31.2	45.5	-146.8	1.8	-6.8
O/D/U/D(MU)	-16.6	14.3	-8.4	4.4	-0.4	-6.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7169	13786	8928	2910	1109	33901	51
State Sector	6870	15022	8090	2185	199	32366	49
Total	14039	28808	17018	5095	1308	66267	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	653	1198	441	537	4	2834	75
Lignite	27	14	29	0	0	70	2
Hydro	130	29	52	29	11	252	7
Nuclear	26	21	65	0	0	113	3
Gas, Naptha & Diesel	12	3	6	0	30	50	1
RES (Wind, Solar, Biomass & Others)	167	136	155	2	1	461	12
Total	1013	1403	748	569	46	3779	100
Share of RES in total generation (%)	16.44	9.73	20.69	0.39	1.70	12.19	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.82	13.32	36.37	5.56	26.40	21.83	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.057

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: 12-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	-	2	348	0.0	6.8	-6.8
3	765 kV	GAYA-VARANASI	2	141	744	0.0	7.1	-7.1
4	765 kV	SASARAM-FATEHPUR	1	0	614	0.0	6.5	-6.5
5	765 kV	GAYA-BALIA	1	0	505	0.0	9.9	-9.9
6	400 kV	PUSAULI-VARANASI	1	24	219	0.0	3.1	-3.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	181	0.0	3.2	-3.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	613	0.0	9.2	-9.2
9	400 kV	PATNA-BALIA	2	0	512	0.0	8.7	-8.7
10	400 kV	NAUBATPUR-BALIA	2	0	545	0.0	9.1	-9.1
11	400 kV	BIHARSHARIFF-BALIA	2	14	283	0.0	3.3	-3.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	451	0.0	7.6	-7.6
13	400 kV	BIHARSHARIFF-VARANASI	2	37	321	0.0	3.2	-3.2
14	220 kV	SAHUPURI-KARAMNASA	1	0	73	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	2	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	77.5	-77.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	427	465	0.0	0.8	-0.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	793	717	1.4	0.0	1.4
3	765 kV	JHARSUGUDA-DURG	2	0	688	0.0	9.4	-9.4
4	400 kV	JHARSUGUDA-RAIGARH	4	134	461	0.0	4.0	-4.0
5	400 kV	RANCHI-SIPAT	2	216	299	0.0	0.9	-0.9
6	220 kV	BUDHIPADAR-RAIGARH	1	3	131	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	150	41	0.9	0.0	0.9
					ER-WR	2.3	16.8	-14.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	490	0.0	7.7	-7.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1641	0.0	34.3	-34.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2828	0.0	46.4	-46.4
4	400 kV	TALCHER-I/C	2	633	656	5.0	0.0	5.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	88.4	-88.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	402	0.0	5.0	-5.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	114	511	0.0	7.2	-7.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	53	0.0	0.7	-0.7
					ER-NER	0.0	12.9	-12.9
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	0	510	0.0	12.0	-12.0
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	100	1266	0.1	14.3	-14.2
5	765 kV	GWALIOR-PHAGI	2	0	1739	0.0	27.2	-27.2
6	765 kV	JABALPUR-ORAI	2	0	644	0.0	21.5	-21.5
7	765 kV	GWALIOR-ORAI	1	942	0	15.9	0.0	15.9
8	765 kV	SATNA-ORAI	1	0	781	0.0	16.5	-16.5
9	765 kV	BANASKANTHA-CHITORGARH	2	2424	0	28.4	0.0	28.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2431	0.0	35.4	-35.4
11	400 kV	ZERDA-KANKROLI	1	384	0	4.9	0.0	4.9
12	400 kV	ZERDA -BHINMAL	1	585	0	7.1	0.0	7.1
13	400 kV	VINDHYACHAL -RIHAND	1	962	0	20.3	0.0	20.3
14	400 kV	RAPP-SHUJALPUR	2	434	200	2.6	1.0	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	126	0	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	95	0	1.7	0.0	1.7
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	83.2	129.6	-46.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	987	0	23.9	0.0	23.9
2	HVDC	RAIGARH-PUGALUR	2	717	604	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	2	1031	1813	5.0	11.7	-6.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2540	0.0	37.9	-37.9
5	400 kV	KOLHAPUR-KUDGI	2	1195	0	19.4	0.0	19.4
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	111	2.0	0.0	2.0
					WR-SR	50.4	49.6	0.7

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	-0.37
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	126	100	126	3.43
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.77
	NER	132kV GELEPHU-SALAKATI	1	-2	0	0.00
	NER	132kV MOTANGA-RANGIA	12	0	-5	-0.11
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-69	0	-31	-0.75
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	176	1	37	0.88
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-924	-628	-843	-20.24
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-110	0	-93	-2.22