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: 19th 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 18.12.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18- 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 18th 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: 19-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)	49398	54675	37078	19218	2461	162830
Peak Shortage (MW)	0	0	0	383	0	383
Energy Met (MU)	1091	1388	891	399	44	3813
Hydro Gen (MU)	130	29	68	29	11	267
Wind Gen (MU)	5	43	62	-	-	110
Solar Gen (MU)*	107.93	53.17	97.72	5.22	0.74	265
Energy Shortage (MU)	0.17	0.00	0.00	2.40	0.00	2.57
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55357	67346	45193	20193	2546	185904
Time Of Maximum Demand Met (From NLDC SCADA)	11:17	10:49	09:29	17:47	17:28	11:14

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	0.122	0.45	2.22	7.59	10.27	57.42	32.31

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	6945	0	131.0	38.1	-1.8	96	0.00
	Haryana	7013	0	131.6	83.4	-1.0	76	0.00
	Rajasthan	15795	0	313.0	136.4	-1.1	182	0.00
	Delhi	4057	0	66.5	57.9	-0.2	160	0.00
	UP	17561	0	316.6	78.2	-0.7	467	0.00
	Uttarakhand	2095	0	37.9	24.5	1.0	218	0.00
	HP	1827	0	32.7	24.3	0.0	64	0.00
	J&K(UT) & Ladakh(UT)	2710	0	58.7	55.7	-2.0	0	0.17
	Chandigarh	205	0	3.4	3.4	0.0	35	0.00
WR	Chhattisgarh	4501	0	98.7	50.6	-0.6	216	0.00
	Gujarat	18790	0	387.5	263.4	-0.5	886	0.00
	MP	16217	0	311.9	189.0	-4.5	492	0.00
	Maharashtra	25325	0	532.6	173.3	0.7	582	0.00
	Goa	574	0	12.0	11.5	-0.1	47	0.00
	DNHDDPDCL	1165	0	26.9	27.0	-0.1	44	0.00
	AMNSIL	787	0	18.1	11.1	0.4	248	0.00
SR	Andhra Pradesh	8599	0	170.8	56.7	-1.4	360	0.00
	Telangana	11376	0	200.8	92.1	-2.3	604	0.00
	Karnataka	9650	0	176.2	56.1	-0.6	734	0.00
	Kerala	3478	0	66.7	50.4	-0.2	169	0.00
	Tamil Nadu	12599	0	268.9	136.0	-2.7	423	0.00
	Puducherry	341	0	7.9	7.5	-0.2	34	0.00
ER	Bihar	4777	0	84.9	72.4	0.2	318	0.02
	DVC	3423	0	70.0	-40.5	0.0	529	0.00
	Jharkhand	1726	157	29.4	21.5	-0.8	211	2.38
	Odisha	4640	0	91.0	32.1	-2.1	290	0.00
	West Bengal	6383	0	122.0	-8.3	-2.1	17	0.00
	Sikkim	97	0	1.5	1.6	0.0	314	0.00
NER	Arunachal Pradesh	131	0	2.4	2.5	-0.3	17	0.00
	Assam	1385	0	23.5	18.6	-1.8	50	0.00
	Manipur	225	0	3.3	3.4	0.0	40	0.00
	Meghalaya	352	0	6.9	6.2	0.0	30	0.00
	Mizoram	117	0	1.9	1.8	-0.4	23	0.00
	Nagaland	138	0	2.3	2.3	-0.1	17	0.00
	Tripura	214	0	3.5	4.0	-0.2	15	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	2.8	-2.9	-22.7
Day Peak (MW)	164.8	-287.0	-1060.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	155.1	-34.1	60.4	-182.6	1.1	0.0
Actual(MU)	185.1	-44.0	50.0	-189.5	-1.7	-0.1
O/D/U/D(MU)	29.9	-9.9	-10.5	-6.9	-2.8	-0.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6037	12946	7618	2820	859	30280	45
State Sector	8620	16876	7765	2952	220	36433	55
Total	14657	29822	15383	5772	1079	66712	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	698	1274	500	579	9	3061	77
Lignite	22	10	33	0	0	65	2
Hydro	130	29	68	29	11	267	7
Nuclear	26	33	65	0	0	125	3
Gas, Naptha & Diesel	12	3	5	0	29	49	1
RES (Wind, Solar, Biomass & Others)	138	98	186	5	1	427	11
Total	1026	1448	858	613	49	3994	100

Share of RES in total generation (%)	13.44	6.75	21.66	0.85	1.50	10.70
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.68	11.09	37.24	5.55	22.88	20.52

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.050

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: 19-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	0	807	0.0	14.5	-14.5
4	765 kV	SASARAM-FATEHPUR	1	0	418	0.0	8.2	-8.2
5	765 kV	GAYA-BALIA	1	0	634	0.0	11.2	-11.2
6	400 kV	PUSAULI-VARANASI	1	0	225	0.0	4.6	-4.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	187	0.0	3.6	-3.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	878	0.0	13.5	-13.5
9	400 kV	PATNA-BALIA	2	0	796	0.0	14.5	-14.5
10	400 kV	NAUBATPUR-BALIA	2	0	707	0.0	8.6	-8.6
11	400 kV	BIHARSHARIFF-BALIA	2	0	504	0.0	8.2	-8.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	677	0.0	11.8	-11.8
13	400 kV	BIHARSHARIFF-VARANASI	2	0	340	0.0	5.7	-5.7
14	220 kV	SAHUPURI-KARAMNASA	1	0	105	0.0	1.2	-1.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	25	0	0.6	0.0	0.6
17	132 kV	KARMANASA-SAHUPURI	1	0	24	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.6	113.8	-113.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	606	423	1.8	0.0	1.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	389	605	0.0	3.5	-3.5
3	765 kV	JHARSUGUDA-DURG	2	0	610	0.0	10.8	-10.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	742	0.0	10.9	-10.9
5	400 kV	RANCHI-SIPAT	2	0	331	0.0	3.7	-3.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	137	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	51	112	0.0	1.0	-1.0
					ER-WR	1.8	32.3	-30.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	538	0.0	6.3	-6.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2004	0.0	34.6	-34.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	3086	0.0	59.6	-59.6
4	400 kV	TALCHER-I/C	2	165	731	0.0	1.8	-1.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	100.5	-100.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	284	0	4.3	0.0	4.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	451	0	8.3	0.0	8.3
3	220 kV	ALIPURDUAR-SALAKATI	2	47	0	0.8	0.0	0.8
					ER-NER	13.4	0.0	13.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	471	0	11.3	0.0	11.3
					NER-NR	11.3	0.0	11.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1525	0.0	36.3	-36.3
2	HVDC	VINDHYACHAL B/B	-	46	101	0.5	1.5	-1.0
3	HVDC	MUNDRA-MOHINDERGARH	2	1444	0	0.0	16.8	-16.8
4	765 kV	GWALIOR-AGRA	2	84	1254	0.1	13.8	-13.7
5	765 kV	GWALIOR-PHAGI	2	0	2334	0.0	40.6	-40.6
6	765 kV	JABALPUR-ORAI	2	0	881	0.0	24.6	-24.6
7	765 kV	GWALIOR-ORAI	1	1082	0	20.6	0.0	20.6
8	765 kV	SATNA-ORAI	1	0	944	0.0	17.4	-17.4
9	765 kV	BANASKANTHA-CHITORGARH	2	2641	0	36.5	0.0	36.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	1857	0.0	28.1	-28.1
11	400 kV	ZERDA-KANKROLI	1	399	0	5.1	0.0	5.1
12	400 kV	ZERDA -BHINMAL	1	561	145	4.7	0.0	4.7
13	400 kV	VINDHYACHAL -RIHAND	1	965	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	402	454	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	1.7	-1.7
17	220 kV	MEHGAON-AURAIYA	1	128	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	95	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	94.3	184.1	-89.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	987	0	22.1	0.0	22.1
2	HVDC	RAIGARH-PUGALUR	2	2873	747	31.9	0.0	31.9
3	765 kV	SOLAPUR-RAICHUR	2	1088	1508	3.1	14.4	-11.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2963	0.0	48.0	-48.0
5	400 kV	KOLHAPUR-KUDGI	2	1309	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	109	1.3	0.0	1.3
					WR-SR	77.7	62.4	15.3

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	-0.53
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	179	145	158	3.76
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.73
	NER	132kV GELEPHU-SALAKATI	14	9	13	0.30
	NER	132kV MOTANGA-RANGIA	-11	0	-1	-0.02
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-42	-1.02
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-215	0	-79	-1.89
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-942	-632	-852	-20.45
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-118	0	-94	-2.26