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: 5th 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 04.12.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04- 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 04th 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: 05-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)	45198	54429	36764	18959	2393	157743
Peak Shortage (MW)	0	0	0	489	0	489
Energy Met (MU)	1031	1365	914	386	44	3739
Hydro Gen (MU)	139	30	57	34	12	271
Wind Gen (MU)	9	51	48	-	-	108
Solar Gen (MU)*	94.89	45.83	100.55	2.09	0.82	244
Energy Shortage (MU)	0.14	0.00	0.00	3.31	0.00	3.45
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52122	66135	45456	19593	2539	181736
Time Of Maximum Demand Met (From NLDC SCADA)	10:13	10:56	09:27	17:55	17:30	10:59

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	0.057	0.08	2.08	5.90	8.07	62.93	29.00

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	7160	0	135.8	45.4	-1.3	48	0.00
	Haryana	6254	0	119.2	60.4	-0.7	251	0.00
	Rajasthan	15898	0	299.6	118.6	0.6	288	0.14
	Delhi	3346	0	59.8	51.6	0.8	230	0.00
	UP	15104	0	292.3	56.8	0.1	223	0.00
	Uttarakhand	1918	0	34.8	23.0	0.6	152	0.00
	HP	1788	0	31.3	21.9	0.1	109	0.00
	J&K(UT) & Ladakh(UT)	2499	0	55.4	50.5	-0.2	274	0.00
	Chandigarh	182	0	3.1	3.4	-0.3	10	0.00
WR	Chhattisgarh	3970	0	87.3	47.7	-0.1	266	0.00
	Gujarat	18438	0	377.1	220.8	0.4	1141	0.00
	MP	16085	0	307.6	189.3	-2.6	630	0.00
	Maharashtra	25705	0	536.1	160.2	0.0	835	0.00
	Goa	615	0	12.4	11.8	0.0	49	0.00
	DNHDDPDCL	1118	0	26.1	26.0	0.1	63	0.00
	AMNSIL	813	0	18.1	10.6	0.8	309	0.00
SR	Andhra Pradesh	9714	0	190.9	72.6	-0.2	413	0.00
	Telangana	9684	0	175.0	55.9	-0.5	739	0.00
	Karnataka	11498	0	206.1	71.4	1.0	597	0.00
	Kerala	3340	0	70.1	57.5	0.6	189	0.00
	Tamil Nadu	12177	0	264.0	160.9	-1.0	481	0.00
	Puducherry	318	0	7.5	7.0	-0.2	52	0.00
ER	Bihar	4401	0	78.2	66.0	-0.5	314	0.07
	DVC	3261	0	69.5	-39.2	0.4	299	0.00
	Jharkhand	1563	0	27.3	18.2	0.3	219	3.24
	Odisha	5299	0	103.8	35.3	-0.1	378	0.00
	West Bengal	5820	0	105.3	-9.1	-0.7	302	0.00
	Sikkim	93	0	1.4	1.5	-0.1	23	0.00
NER	Arunachal Pradesh	119	0	1.9	1.9	-0.1	52	0.00
	Assam	1423	0	25.2	18.1	0.6	86	0.00
	Manipur	204	0	2.6	2.9	-0.3	23	0.00
	Meghalaya	341	0	6.7	5.5	0.0	36	0.00
	Mizoram	114	0	1.7	1.8	-0.3	9	0.00
	Nagaland	136	0	2.1	2.0	-0.1	25	0.00
	Tripura	222	0	3.6	2.0	-0.2	38	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.3	1.7	-22.5
Day Peak (MW)	259.0	204.0	-1027.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	123.2	-49.6	106.1	-177.1	-2.5	0.0
Actual(MU)	124.9	-52.3	103.4	-177.6	-4.2	-5.8
O/D/U/D(MU)	1.8	-2.7	-2.6	-0.5	-1.7	-5.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7839	12596	8568	2120	844	31966	48
State Sector	8250	14689	8020	2890	121	33969	52
Total	16089	27285	16588	5010	964	65935	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	649	1268	473	548	10	2948	75
Lignite	26	12	51	0	0	89	2
Hydro	140	30	57	34	12	272	7
Nuclear	26	36	65	0	0	127	3
Gas, Naptha & Diesel	12	5	5	0	30	52	1
RES (Wind, Solar, Biomass & Others)	127	98	202	2	1	430	11
Total	979	1450	854	584	52	3919	100

Share of RES in total generation (%)	13.01	6.75	23.68	0.36	1.58	10.98
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.93	11.29	37.99	6.12	24.59	21.17

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.049

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: 05-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	846	0.0	11.8	-11.8
4	765 kV	SASARAM-FATEHPUR	1	0	19	0.0	0.0	0.0
5	765 kV	GAYA-BALIA	1	0	527	0.0	10.3	-10.3
6	400 kV	PUSAULI-VARANASI	1	0	241	0.0	4.8	-4.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	175	0.0	3.4	-3.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	751	0.0	11.1	-11.1
9	400 kV	PATNA-BALIA	2	0	690	0.0	12.8	-12.8
10	400 kV	NAUBATPUR-BALIA	2	0	642	0.0	10.3	-10.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	430	0.0	7.1	-7.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	500	0.0	9.1	-9.1
13	400 kV	BIHARSHARIFF-VARANASI	2	0	338	0.0	5.1	-5.1
14	220 kV	SAHUPURI-KARAMNASA	1	0	131	0.0	1.8	-1.8
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	21	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	96.0	-95.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	862	162	4.9	0.0	4.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	384	640	0.0	2.4	-2.4
3	765 kV	JHARSUGUDA-DURG	2	0	487	0.0	7.7	-7.7
4	400 kV	JHARSUGUDA-RAIGARH	4	24	504	0.0	5.5	-5.5
5	400 kV	RANCHI-SIPAT	2	107	291	0.0	1.9	-1.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	153	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	84	113	0.0	0.6	-0.6
					ER-WR	4.9	20.1	-15.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	441	0.0	9.9	-9.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	40.2	-40.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2751	0.0	49.8	-49.8
4	400 kV	TALCHER-I/C	2	11	715	0.0	7.9	-7.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	99.9	-99.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	264	0.0	3.6	-3.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	22	291	0.0	3.6	-3.6
3	220 kV	ALIPURDUAR-SALAKATI	2	2	31	0.0	0.3	-0.3
					ER-NER	0.0	7.5	-7.5
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	1020	0.0	24.1	-24.1
2	HVDC	VINDHYACHAL B/B	-	46	0	1.2	0.0	1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	1445	0	0.0	33.5	-33.5
4	765 kV	GWALIOR-AGRA	2	237	894	0.3	11.5	-11.1
5	765 kV	GWALIOR-PHAGI	2	0	1747	0.0	31.3	-31.3
6	765 kV	JABALPUR-ORAI	2	0	610	0.0	19.7	-19.7
7	765 kV	GWALIOR-ORAI	1	903	0	16.3	0.0	16.3
8	765 kV	SATNA-ORAI	1	0	804	0.0	15.7	-15.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1655	1	20.5	0.0	20.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	1719	0.0	25.8	-25.8
11	400 kV	ZERDA-KANKROLI	1	229	26	2.5	0.0	2.5
12	400 kV	ZERDA -BHINMAL	1	332	136	2.0	0.0	2.0
13	400 kV	VINDHYACHAL -RIHAND	1	972	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	280	324	1.2	2.2	-1.0
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	130	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	96	0	1.8	0.0	1.8
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	68.9	165.2	-96.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	987	0	20.1	0.0	20.1
2	HVDC	RAIGARH-PUGALUR	2	0	1500	0.0	22.8	-22.8
3	765 kV	SOLAPUR-RAICHUR	2	888	1912	2.0	17.0	-15.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2861	0.0	39.7	-39.7
5	400 kV	KOLHAPUR-KUDGI	2	1152	0	17.3	0.0	17.3
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	123	2.3	0.0	2.3
					WR-SR	41.7	79.6	-37.9

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	-0.05
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	248	149	200	4.80
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.34
	NER	132kV GELEPHU-SALAKATI	4	0	1	0.02
	NER	132kV MOTANGA-RANGIA	-9	-1	-4	-0.10
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-0.40
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	204	2	89	2.14
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-915	-670	-843	-20.24
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-112	0	-94	-2.26