National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 02nd Jan 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 01.01.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-जनवरी-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 01st January 2022, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day **Date of Reporting:** **02-Jan-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)	51844	51892	37107	19013	2420	162276
Peak Shortage (MW)	250	0	0	308	0	558
Energy Met (MU)	1055	1199	905	386	44	3589
Hydro Gen (MU)	104	31	77	25	10	247
Wind Gen (MU)	12	71	68	-	-	151
Solar Gen (MU)*	60.98	30.77	75.94	4.28	0.25	172
Energy Shortage (MU)	4.65	1.95	0.00	5.85	0.00	12.45
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54644	58939	47285	19609	2501	178873
Time Of Maximum Demand Met (From NLDC SCADA)	10:58	11:32	09:29	18:07	17:37	10:46

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	0.027	0.00	0.19	1.92	2.11	76.67	21.22

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	7182	0	131.6	74.2	-2.1	91	0.00
	Haryana	6988	0	127.4	72.9	0.4	206	0.00
	Rajasthan	15034	0	267.5	78.7	-1.5	360	0.00
	Delhi	4470	0	70.5	58.7	-0.6	206	0.00
	UP	17953	0	318.2	92.8	0.0	446	0.00
	Uttarakhand	2239	0	40.2	27.7	0.2	180	0.00
	HP	1907	0	35.3	28.6	-0.3	147	0.00
	J&K(UT) & Ladakh(UT)	2881	300	60.4	56.4	-0.8	262	4.65
	Chandigarh	233	0	3.8	3.8	0.0	40	0.00
WR	Chhattisgarh	3540	0	76.1	23.7	-0.1	349	0.00
	Gujarat	16595	219	346.5	184.6	4.6	893	1.95
	MP	14062	0	266.4	166.4	-1.0	561	0.00
	Maharashtra	22712	0	458.7	123.5	-3.5	617	0.00
	Goa	576	0	11.9	11.1	0.3	44	0.00
	DD	274	0	6.0	6.0	0.0	16	0.00
	DNH	766	0	17.6	17.5	0.1	44	0.00
	AMNSIL	758	0	15.5	8.7	0.6	376	0.00
SR	Andhra Pradesh	9242	0	170.7	67.4	-0.1	440	0.00
	Telangana	11050	0	197.8	87.9	-0.2	581	0.00
	Karnataka	11404	0	201.0	52.6	-0.9	576	0.00
	Kerala	3709	0	74.9	55.2	0.1	310	0.00
	Tamil Nadu	12620	0	253.9	137.5	-2.6	639	0.00
	Puducherry	318	0	6.5	7.1	-0.7	53	0.00
ER	Bihar	4487	0	82.8	74.9	-0.3	277	0.99
	DVC	3162	91	66.3	-38.2	-1.5	401	1.46
	Jharkhand	1429	228	27.4	22.4	-0.4	266	3.40
	Odisha	5391	0	99.7	63.8	0.8	390	0.00
	West Bengal	5679	0	108.1	-8.5	-0.6	260	0.00
	Sikkim	96	0	1.5	1.9	-0.3	22	0.00
NER	Arunachal Pradesh	133	0	2.4	2.7	-0.4	6	0.00
	Assam	1365	0	23.7	18.4	-0.9	72	0.00
	Manipur	222	0	3.3	3.4	-0.1	34	0.00
	Meghalaya	353	0	7.1	6.4	0.0	56	0.00
	Mizoram	112	0	1.9	1.4	-0.2	15	0.00
	Nagaland	130	0	2.3	2.1	0.1	17	0.00
	Tripura	211	0	3.4	3.8	-0.3	21	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-0.8	-5.3	-15.9
Day Peak (MW)	-87.0	-386.5	-781.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	247.9	-170.8	57.7	-139.7	4.9	0.0
Actual(MU)	245.0	-173.7	58.0	-137.1	2.3	-5.5
O/D/U/D(MU)	-2.9	-2.9	0.3	2.5	-2.6	-5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8386	13218	5602	1300	664	29169	41
State Sector	9455	17536	9916	4268	112	41286	59
Total	17841	30753	15518	5568	776	70456	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	566	1187	494	537	10	2795	76
Lignite	24	15	40	0	0	79	2
Hydro	104	31	77	25	10	247	7
Nuclear	32	33	70	0	0	135	4
Gas, Naptha & Diesel	15	11	10	0	26	62	2
RES (Wind, Solar, Biomass & Others)	97	103	172	4	0	377	10
Total	839	1380	863	566	46	3694	100

Share of RES in total generation (%)	11.56	7.47	19.96	0.76	0.54	10.20
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.85	12.09	36.99	5.10	22.44	20.55

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.058

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: 02-Jan-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	-	3	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	0	857	0.0	11.5	-11.5
4	765 kV	SASARAM-FATEHPUR	1	0	628	0.0	10.0	-10.0
5	765 kV	GAYA-BALIA	1	0	591	0.0	11.2	-11.2
6	400 kV	PUSAULI-VARANASI	1	22	152	0.0	1.4	-1.4
7	400 kV	PUSAULI -ALLAHABAD	1	0	199	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1007	0.0	14.1	-14.1
9	400 kV	PATNA-BALIA	4	0	1393	0.0	25.2	-25.2
10	400 kV	BIHARSHARIFF-BALIA	2	0	343	0.0	5.9	-5.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	680	0.0	11.3	-11.3
12	400 kV	BIHARSHARIFF-VARANASI	2	0	422	0.0	5.8	-5.8
13	220 kV	PUSAULI-SAHUPURI	1	0	152	0.0	2.0	-2.0
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	100.0	-99.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1094	3	11.8	0.0	11.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	559	618	0.7	0.0	0.7
3	765 kV	JHARSUGUDA-DURG	2	224	127	1.4	0.0	1.4
4	400 kV	JHARSUGUDA-RAIGARH	4	350	147	2.1	0.0	2.1
5	400 kV	RANCHI-SIPAT	2	206	158	0.9	0.0	0.9
6	220 kV	BUDHIPADAR-RAIGARH	1	86	38	0.5	0.0	0.5
7	220 kV	BUDHIPADAR-KORBA	2	218	0	2.7	0.0	2.7
					ER-WR	20.1	0.0	20.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	395	0.0	8.8	-8.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1980	0.0	43.2	-43.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2844	0.0	43.1	-43.1
4	400 kV	TALCHER-I/C	2	410	975	0.0	3.2	-3.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	95.1	-95.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	115	164	0.1	1.4	-1.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	149	235	0.0	1.1	-1.1
3	220 kV	ALIPURDUAR-SALAKATI	2	19	46	0.0	0.2	-0.2
					ER-NER	0.1	2.7	-2.6
Import/Export of <null> (With <null>)								
No Records Found								
					NER-NR	0.0	0.0	0.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1507	0.0	24.6	-24.6
2	HVDC	VINDHYACHAL B/B	-	201	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	253	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	2250	0.0	37.8	-37.8
5	765 kV	GWALIOR-PHAGI	2	0	2377	0.0	35.2	-35.2
6	765 kV	JABALPUR-ORAI	2	0	1110	0.0	34.5	-34.5
7	765 kV	GWALIOR-ORAI	1	949	0	17.2	0.0	17.2
8	765 kV	SATNA-ORAI	1	0	1156	0.0	22.3	-22.3
9	765 kV	BANASKANTHA-CHITORGARH	2	1397	48	10.0	0.0	10.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2645	0.0	47.5	-47.5
11	400 kV	ZERDA-KANKROLI	1	288	0	3.7	0.0	3.7
12	400 kV	ZERDA -BHINMAL	1	362	52	2.9	0.0	2.9
13	400 kV	VINDHYACHAL -RIHAND	1	976	0	21.1	0.0	21.1
14	400 kV	RAPP-SHUJALPUR	2	139	489	0.1	5.3	-5.1
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9
17	220 kV	MEHGAON-AURAIYA	1	116	0	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	65	7	1.4	0.0	1.4
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	62.9	214.2	-151.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	316	0.0	7.3	-7.3
2	HVDC	RAIGARH-PUGALUR	2	1145	1201	13.4	0.0	13.4
3	765 kV	SOLAPUR-RAICHUR	2	1621	2054	5.6	6.8	-1.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2819	0.0	31.6	-31.6
5	400 kV	KOLHAPUR-KUDGI	2	1576	0	23.4	0.0	23.4
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	0	77	1.3	0.0	1.3
					WR-SR	43.7	45.7	-2.0

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)	148	0	66	1.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	0	0	0	-1.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.9
	NER	132kV GELEPHU-SALAKATI	-8	4	-2	-0.1
	NER	132kV MOTANGA-RANGIA	-10	9	-1	0.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-65	-1.6
	ER	NEPAL IMPORT (FROM BIHAR)	-49	0	-8	-0.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-265	-40	-149	-3.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-685	-357	-587	-14.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-96	0	-76	-1.8