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: 13th 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 12.01.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12th 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:** **13-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)	52066	51929	41592	18938	2533	167058
Peak Shortage (MW)	450	0	0	210	0	660
Energy Met (MU)	992	1167	983	378	44	3564
Hydro Gen (MU)	98	29	95	23	9	255
Wind Gen (MU)	4	86	18	-	-	108
Solar Gen (MU)*	66.47	39.26	87.27	3.88	0.15	197
Energy Shortage (MU)	6.25	0.00	1.02	3.13	0.00	10.40
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52618	58083	49831	19444	2689	177687
Time Of Maximum Demand Met (From NLDC SCADA)	18:36	09:58	10:28	18:05	17:48	09:58

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	0.030	0.00	0.13	3.18	3.31	73.49	23.20

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	6423	100	122.7	60.7	-0.5	201	1.60
	Haryana	6324	0	119.4	63.8	0.6	140	0.00
	Rajasthan	13584	0	240.6	67.2	1.6	540	0.00
	Delhi	4615	0	73.1	63.0	-2.3	389	0.00
	UP	17557	0	297.8	85.4	-1.8	116	0.00
	Uttarakhand	2160	0	41.3	30.5	0.2	172	0.00
	HP	1921	0	34.8	26.5	0.4	337	0.00
	J&K(UT) & Ladakh(UT)	2719	250	58.4	55.0	-2.2	106	4.65
	Chandigarh	247	0	4.0	4.1	-0.1	32	0.00
WR	Chhattisgarh	3618	0	76.1	25.5	-0.7	201	0.00
	Gujarat	16237	0	345.1	169.3	1.4	1089	0.00
	MP	10896	0	209.6	129.7	-1.1	445	0.00
	Maharashtra	24590	0	482.0	139.1	-4.6	947	0.00
	Goa	567	0	11.3	10.5	0.2	27	0.00
	DD	314	0	7.1	7.0	0.0	28	0.00
	DNH	853	0	19.4	19.2	0.2	97	0.00
	AMNSIL	776	0	16.7	10.5	-0.6	281	0.00
SR	Andhra Pradesh	10119	0	187.3	94.5	1.4	625	1.02
	Telangana	9188	0	177.7	68.4	-0.2	626	0.00
	Karnataka	12376	0	222.6	80.5	0.8	845	0.00
	Kerala	3789	0	76.8	54.8	-0.3	235	0.00
	Tamil Nadu	14807	0	310.9	183.9	1.4	705	0.00
	Puducherry	378	0	7.8	7.9	-0.2	49	0.00
ER	Bihar	4436	0	77.7	67.9	-0.9	373	0.00
	DVC	3107	0	66.5	-38.4	-0.9	623	2.05
	Jharkhand	1521	0	29.0	20.5	-0.8	319	1.08
	Odisha	4962	0	88.1	45.2	-0.3	501	0.00
	West Bengal	6295	0	114.5	-2.7	0.2	350	0.00
	Sikkim	115	0	1.8	1.7	0.1	62	0.00
NER	Arunachal Pradesh	146	0	2.4	2.5	-0.2	38	0.00
	Assam	1448	0	23.9	19.0	-0.4	85	0.00
	Manipur	240	0	3.2	3.5	-0.3	27	0.00
	Meghalaya	386	0	6.9	5.8	-0.2	43	0.00
	Mizoram	132	0	1.9	1.6	-0.2	18	0.00
	Nagaland	144	0	2.4	2.1	0.2	28	0.00
	Tripura	239	0	3.8	1.9	-0.3	39	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.0	-8.4	-13.0
Day Peak (MW)	126.0	114.0	-596.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	205.2	-185.7	123.8	-146.6	3.3	0.0
Actual(MU)	199.1	-200.0	141.5	-147.9	2.9	-4.4
O/D/U/D(MU)	-6.1	-14.4	17.7	-1.3	-0.3	-4.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7834	13153	5772	1960	759	29478	41
State Sector	10760	17959	10896	3558	11	43183	59
Total	18594	31111	16668	5518	770	72661	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	557	1183	512	533	8	2794	76
Lignite	25	14	32	0	0	72	2
Hydro	98	29	95	23	9	255	7
Nuclear	28	21	69	0	0	119	3
Gas, Naptha & Diesel	15	8	9	0	28	61	2
RES (Wind, Solar, Biomass & Others)	99	127	135	4	0	365	10
Total	822	1383	853	561	46	3665	100

Share of RES in total generation (%)	11.99	9.17	15.86	0.69	0.32	9.95
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.33	12.79	35.17	4.88	20.58	20.15

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.054

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: 13-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	116	843	0.0	8.7	-8.7
4	765 kV	SASARAM-FATEHPUR	1	0	590	0.0	8.0	-8.0
5	765 kV	GAYA-BALIA	1	0	574	0.0	8.6	-8.6
6	400 kV	PUSAULI-VARANASI	1	20	122	0.0	1.5	-1.5
7	400 kV	PUSAULI -ALLAHABAD	1	35	138	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	997	0.0	11.6	-11.6
9	400 kV	PATNA-BALIA	4	0	1171	0.0	19.0	-19.0
10	400 kV	BIHARSHARIFF-BALIA	2	39	327	0.0	4.9	-4.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	609	0.0	8.6	-8.6
12	400 kV	BIHARSHARIFF-VARANASI	2	0	380	0.0	4.9	-4.9
13	220 kV	PUSAULI-SAHUPURI	1	0	150	0.0	1.8	-1.8
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3
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	0.3	78.7	-78.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	718	74	8.1	0.0	8.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	96	1013	0.0	8.7	-8.7
3	765 kV	JHARSUGUDA-DURG	2	0	594	0.0	9.8	-9.8
4	400 kV	JHARSUGUDA-RAIGARH	4	137	499	0.0	3.8	-3.8
5	400 kV	RANCHI-SIPAT	2	59	308	0.0	2.8	-2.8
6	220 kV	BUDHIPADAR-RAIGARH	1	87	133	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	164	26	2.3	0.0	2.3
					ER-WR	10.3	26.8	-16.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	552	0.0	11.4	-11.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1487	0.0	26.2	-26.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2786	0.0	52.2	-52.2
4	400 kV	TALCHER-I/C	2	1752	0	14.3	0.0	14.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	14	0.0	0.0	0.0
					ER-SR	0.0	89.7	-89.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	90	325	0.3	2.1	-1.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	118	422	0.0	1.8	-1.8
3	220 kV	ALIPURDUAR-SALAKATI	2	30	72	0.0	0.2	-0.2
					ER-NER	0.3	4.1	-3.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	1.0	-1.0
					NER-NR	0.0	1.0	-1.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2504	0.0	40.8	-40.8
2	HVDC	VINDHYACHAL B/B	-	94	0	2.4	0.0	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	257	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	2140	0.0	31.5	-31.5
5	765 kV	GWALIOR-PHAGI	2	0	1861	0.0	25.6	-25.6
6	765 kV	JABALPUR-ORAI	2	0	717	0.0	20.3	-20.3
7	765 kV	GWALIOR-ORAI	1	946	0	15.0	0.0	15.0
8	765 kV	SATNA-ORAI	1	0	955	0.0	18.5	-18.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1359	0	16.3	0.0	16.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	2079	0.0	36.4	-36.4
11	400 kV	ZERDA-KANKROLI	1	244	0	3.1	0.0	3.1
12	400 kV	ZERDA -BHINMAL	1	191	52	0.9	0.0	0.9
13	400 kV	VINDHYACHAL -RIHAND	1	968	0	20.9	0.0	20.9
14	400 kV	RAPP-SHUJALPUR	2	319	360	0.0	0.3	-0.3
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8
17	220 kV	MEHGAON-AURAIYA	1	125	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	76	0	1.5	0.0	1.5
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	60.8	180.5	-119.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1023	0.0	19.1	-19.1
2	HVDC	RAIGARH-PUGALUR	2	0	3005	0.0	48.6	-48.6
3	765 kV	SOLAPUR-RAICHUR	2	513	2085	0.0	18.3	-18.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2141	0.0	31.0	-31.0
5	400 kV	KOLHAPUR-KUDGI	2	1319	0	19.0	0.0	19.0
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	70	1.3	0.0	1.3
					WR-SR	20.3	117.1	-96.8

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)	147	0	33	0.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	0	0	0	-1.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	10	0	-45	-1.1
	NER	132kV GELEPHU-SALAKATI	-13	0	-4	-0.1
	NER	132kV MOTANGA-RANGIA	-25	0	2	0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.5
	ER	NEPAL IMPORT (FROM BIHAR)	-202	0	-58	-1.4
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	316	0	-229	-5.5
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-496	0	-463	-11.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-100	0	-78	-1.9