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: 26th Dec 2021

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 25.12.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 25-दिसंबर-2021 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 25th December 2021, 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:** **26-Dec-2021**

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)	52359	56441	38706	19688	2511	169705
Peak Shortage (MW)	200	445	0	218	0	863
Energy Met (MU)	1068	1295	920	393	45	3721
Hydro Gen (MU)	105	44	78	28	11	266
Wind Gen (MU)	6	14	18	-	-	39
Solar Gen (MU)*	47.37	34.92	102.55	4.65	0.24	190
Energy Shortage (MU)	5.36	2.83	0.00	3.02	0.19	11.40
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54787	63036	46689	20024	2594	181663
Time Of Maximum Demand Met (From NLDC SCADA)	18:04	11:02	09:58	18:05	17:27	11:29

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	0.042	0.00	1.01	8.98	9.99	78.76	11.25

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	6685	0	127.4	63.1	-0.8	163	0.58
	Haryana	6862	0	133.2	69.7	-0.5	164	0.00
	Rajasthan	15345	0	285.2	80.7	1.9	326	0.09
	Delhi	4107	0	68.0	56.5	-1.0	254	0.00
	UP	17224	0	313.7	87.4	-1.1	384	0.00
	Uttarakhand	2189	0	41.4	28.9	0.4	156	0.04
	HP	1938	0	35.2	28.1	0.1	360	0.00
	J&K(UT) & Ladakh(UT)	2854	0	60.1	55.2	-0.1	156	4.65
	Chandigarh	222	0	3.6	3.6	0.0	33	0.00
WR	Chhattisgarh	4004	0	84.4	34.4	0.0	175	0.00
	Gujarat	17708	0	368.1	212.9	4.2	826	2.83
	MP	15668	0	303.9	189.2	0.9	833	0.00
	Maharashtra	24371	0	485.8	138.0	-4.7	923	0.00
	Goa	522	0	10.9	9.9	0.4	32	0.00
	DD	326	0	6.0	6.9	-0.9	32	0.00
	DNH	835	0	19.3	18.8	0.5	71	0.00
	AMNSIL	832	0	17.0	7.7	-0.2	312	0.00
SR	Andhra Pradesh	9187	0	171.3	78.4	-0.1	341	0.00
	Telangana	10082	0	189.5	80.5	-0.7	605	0.00
	Karnataka	11045	0	199.0	56.3	-2.4	481	0.00
	Kerala	3275	0	66.3	50.9	-0.9	157	0.00
	Tamil Nadu	13703	0	287.3	173.1	-2.1	498	0.00
	Puducherry	341	0	6.8	7.3	-0.5	48	0.00
ER	Bihar	4753	0	81.8	71.5	-0.9	231	0.03
	DVC	3186	0	67.4	-37.6	-1.8	292	1.99
	Jharkhand	1718	0	31.3	22.3	-0.5	168	1.00
	Odisha	5089	0	100.6	46.6	-0.6	549	0.00
	West Bengal	5873	0	109.7	-5.4	0.3	347	0.00
	Sikkim	108	0	2.0	1.8	0.2	50	0.00
NER	Arunachal Pradesh	123	0	2.3	2.1	0.1	46	0.00
	Assam	1448	0	24.7	19.3	0.1	153	0.19
	Manipur	232	0	3.0	3.5	-0.5	25	0.00
	Meghalaya	368	0	7.3	5.8	0.1	41	0.00
	Mizoram	115	0	1.8	1.5	-0.1	9	0.00
	Nagaland	135	0	2.5	2.3	0.1	14	0.00
	Tripura	219	0	3.5	3.6	-0.3	34	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.5	-5.2	-14.4
Day Peak (MW)	241.0	-510.5	-812.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	229.7	-136.1	71.9	-166.4	1.0	0.0
Actual(MU)	228.8	-123.7	56.5	-166.1	0.7	-3.8
O/D/U/D(MU)	-0.9	12.4	-15.4	0.4	-0.3	-3.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8426	13013	5712	1300	444	28894	41
State Sector	8951	17626	10153	4068	112	40909	59
Total	17377	30638	15865	5368	556	69803	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	603	1287	528	567	13	2998	78
Lignite	27	11	45	0	0	83	2
Hydro	105	44	78	28	11	266	7
Nuclear	33	33	70	0	0	136	4
Gas, Naptha & Diesel	15	10	8	0	25	58	2
RES (Wind, Solar, Biomass & Others)	79	51	149	5	0	283	7
Total	862	1437	877	599	49	3824	100

Share of RES in total generation (%)	9.15	3.53	16.97	0.77	0.49	7.41
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.19	8.95	33.79	5.37	22.32	17.92

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.061

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: 26-Dec-2021

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	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	23	858	0.0	9.4	-9.4
4	765 kV	SASARAM-FATEHPUR	1	0	553	0.0	9.0	-9.0
5	765 kV	GAYA-BALIA	1	0	634	0.0	10.5	-10.5
6	400 kV	PUSAULI-VARANASI	1	4	103	0.0	1.3	-1.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	153	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	916	0.0	13.2	-13.2
9	400 kV	PATNA-BALIA	4	0	1513	0.0	27.2	-27.2
10	400 kV	BIHARSHARIFF-BALIA	2	0	427	0.0	6.7	-6.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	629	0.0	11.1	-11.1
12	400 kV	BIHARSHARIFF-VARANASI	2	0	372	0.0	4.6	-4.6
13	220 kV	PUSAULI-SAHUPURI	1	3	186	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	0.3	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	96.6	-96.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	495	548	0.9	0.0	0.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	264	627	0.0	4.5	-4.5
3	765 kV	JHARSUGUDA-DURG	2	55	213	0.0	2.5	-2.5
4	400 kV	JHARSUGUDA-RAIGARH	4	141	337	0.0	2.5	-2.5
5	400 kV	RANCHI-SIPAT	2	115	198	0.0	1.3	-1.3
6	220 kV	BUDHIPADAR-RAIGARH	1	46	78	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	96	0	0.9	0.0	0.9
					ER-WR	1.9	11.6	-9.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	390	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1980	0.0	34.3	-34.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2637	0.0	49.4	-49.4
4	400 kV	TALCHER-I/C	2	878	485	7.7	0.0	7.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	92.3	-92.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	41	296	0.0	4.0	-4.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	74	416	0.0	4.9	-4.9
3	220 kV	ALIPURDUAR-SALAKATI	2	5	79	0.0	0.9	-0.9
					ER-NER	0.0	9.8	-9.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	9.2	-9.2
					NER-NR	0.0	9.2	-9.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2503	0.0	49.7	-49.7
2	HVDC	VINDHYACHAL B/B	-	447	277	6.8	0.0	6.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	253	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	1631	0.0	25.5	-25.5
5	765 kV	GWALIOR-PHAGI	2	0	2229	0.0	37.7	-37.7
6	765 kV	JABALPUR-ORAI	2	0	874	0.0	29.5	-29.5
7	765 kV	GWALIOR-ORAI	1	870	0	17.7	0.0	17.7
8	765 kV	SATNA-ORAI	1	0	1054	0.0	20.7	-20.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1578	0	29.3	0.0	29.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	2379	0.0	43.5	-43.5
11	400 kV	ZERDA-KANKROLI	1	325	0	5.2	0.0	5.2
12	400 kV	ZERDA -BHINMAL	1	396	16	4.4	0.0	4.4
13	400 kV	VINDHYACHAL -RIHAND	1	979	0	22.3	0.0	22.3
14	400 kV	RAPP-SHUJALPUR	2	189	351	0.8	2.1	-1.2
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.2	0.8	-0.5
17	220 kV	MEHGAON-AURAIYA	1	144	0	2.3	0.0	2.3
18	220 kV	MALANPUR-AURAIYA	1	91	0	1.3	0.0	1.3
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	90.2	215.7	-125.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	693	0	12.7	0.0	12.7
2	HVDC	RAIGARH-PUGALUR	2	1158	1001	1.3	0.0	1.3
3	765 kV	SOLAPUR-RAICHUR	2	1207	1388	3.4	10.4	-7.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2577	0.0	39.4	-39.4
5	400 kV	KOLHAPUR-KUDGI	2	1456	0	23.3	0.0	23.3
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	59	1.1	0.0	1.1
					WR-SR	41.8	49.8	-8.0

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)	81	0	49	1.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	148	0	118	2.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.6
	NER	132kV GELEPHU-SALAKATI	-8	5	-3	-0.1
	NER	132kV MOTANGA-RANGIA	-8	0	-2	-0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-68	0	-13	-0.3
	ER	NEPAL IMPORT (FROM BIHAR)	-113	0	-25	-0.6
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-330	-30	-178	-4.3
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-720	-335	-525	-12.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-92	0	-76	-1.8