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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 28th 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 27.12.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-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 27th 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:** **28-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)	53645	56279	40809	20271	2616	173620
Peak Shortage (MW)	450	0	0	252	0	702
Energy Met (MU)	1008	1281	933	398	45	3665
Hydro Gen (MU)	106	42	76	27	10	262
Wind Gen (MU)	8	28	51	-	-	87
Solar Gen (MU)*	41.43	29.86	96.83	5.00	0.25	173
Energy Shortage (MU)	5.15	0.50	0.00	3.78	0.00	9.43
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54045	62848	46964	20555	2734	181390
Time Of Maximum Demand Met (From NLDC SCADA)	18:25	10:53	09:31	18:01	17:47	10:53

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	0.033	0.00	0.49	2.90	3.39	74.29	22.32

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	6264	0	121.0	60.4	-0.5	293	0.50
	Haryana	6205	0	115.8	61.3	0.6	296	0.00
	Rajasthan	13947	0	257.4	68.3	-2.0	393	0.00
	Delhi	4290	0	67.5	59.3	-3.4	314	0.00
	UP	17979	0	305.5	92.6	-1.3	380	0.00
	Uttarakhand	2250	0	41.4	28.2	0.6	182	0.00
	HP	1912	0	34.7	27.4	0.1	190	0.00
	J&K(UT) & Ladakh(UT)	2817	250	60.8	54.6	1.3	263	4.65
	Chandigarh	239	0	3.9	4.0	-0.1	30	0.00
WR	Chhattisgarh	3974	0	84.1	34.3	-0.1	300	0.00
	Gujarat	17709	300	360.5	201.8	0.9	656	0.50
	MP	15545	0	300.2	188.5	-0.2	657	0.00
	Maharashtra	24018	0	481.0	148.6	-3.9	635	0.00
	Goa	592	0	11.6	11.0	0.0	55	0.00
	DD	301	0	6.8	6.8	0.0	27	0.00
	DNH	844	0	19.3	19.1	0.2	48	0.00
	AMNSIL	841	0	17.6	8.6	-0.3	294	0.00
SR	Andhra Pradesh	9230	0	175.3	72.9	0.8	485	0.00
	Telangana	10366	0	191.4	81.3	0.1	528	0.00
	Karnataka	11131	0	199.9	52.9	-0.7	793	0.00
	Kerala	3674	0	72.2	53.8	0.2	240	0.00
	Tamil Nadu	14272	0	287.4	159.8	-2.1	497	0.00
	Puducherry	336	0	6.8	7.5	-0.8	36	0.00
ER	Bihar	4863	0	80.5	76.0	-1.6	356	0.00
	DVC	3106	0	66.7	-37.2	-1.7	293	1.65
	Jharkhand	1572	0	30.4	21.0	-0.2	169	2.13
	Odisha	5390	0	108.0	54.7	0.3	511	0.00
	West Bengal	6081	0	110.5	-0.9	-0.1	532	0.00
	Sikkim	130	0	1.9	1.8	0.2	71	0.00
NER	Arunachal Pradesh	138	0	2.3	2.5	-0.3	58	0.00
	Assam	1475	0	24.3	18.6	-0.2	79	0.00
	Manipur	237	0	3.6	3.5	0.1	30	0.00
	Meghalaya	387	0	7.2	5.9	0.0	40	0.00
	Mizoram	131	0	1.8	1.5	-0.2	7	0.00
	Nagaland	135	0	2.6	2.0	0.5	33	0.00
	Tripura	214	0	3.4	3.5	-0.3	18	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.5	-6.1	-13.1
Day Peak (MW)	331.0	116.5	-525.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	211.4	-136.1	68.0	-147.4	4.2	0.0
Actual(MU)	204.6	-124.1	59.4	-145.3	5.0	-0.4
O/D/U/D(MU)	-6.8	12.0	-8.5	2.1	0.8	-0.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7926	11378	5922	1300	697	27223	40
State Sector	8980	18371	9943	4068	112	41473	60
Total	16906	29748	15865	5368	809	68696	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	579	1265	510	545	9	2908	77
Lignite	24	13	44	0	0	81	2
Hydro	106	42	76	27	10	262	7
Nuclear	33	33	69	0	0	135	4
Gas, Naptha & Diesel	12	11	9	0	25	56	1
RES (Wind, Solar, Biomass & Others)	77	60	177	5	0	319	8
Total	831	1423	885	577	44	3761	100

Share of RES in total generation (%)	9.22	4.20	19.99	0.87	0.56	8.47
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.93	9.45	36.45	5.61	23.78	19.03

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.062

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: 28-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	91	799	0.0	9.0	-9.0
4	765 kV	SASARAM-FATEHPUR	1	0	557	0.0	8.6	-8.6
5	765 kV	GAYA-BALIA	1	0	635	0.0	10.5	-10.5
6	400 kV	PUSAULI-VARANASI	1	30	113	0.0	1.2	-1.2
7	400 kV	PUSAULI -ALLAHABAD	1	15	103	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	896	0.0	11.2	-11.2
9	400 kV	PATNA-BALIA	4	0	1293	0.0	19.5	-19.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	433	0.0	5.3	-5.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	592	0.0	9.5	-9.5
12	400 kV	BIHARSHARIFF-VARANASI	2	0	342	0.0	4.5	-4.5
13	220 kV	PUSAULI-SAHUPURI	1	0	166	0.0	1.9	-1.9
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	81.5	-81.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	958	381	5.0	0.0	5.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	549	698	0.0	1.6	-1.6
3	765 kV	JHARSUGUDA-DURG	2	168	213	0.0	0.4	-0.4
4	400 kV	JHARSUGUDA-RAIGARH	4	216	264	0.0	0.9	-0.9
5	400 kV	RANCHI-SIPAT	2	188	198	0.0	0.2	-0.2
6	220 kV	BUDHIPADAR-RAIGARH	1	66	42	0.5	0.0	0.5
7	220 kV	BUDHIPADAR-KORBA	2	103	0	1.6	0.0	1.6
					ER-WR	7.0	3.1	3.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	548	0.0	9.8	-9.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1980	0.0	34.8	-34.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2749	0.0	46.1	-46.1
4	400 kV	TALCHER-I/C	2	1718	630	4.2	0.0	4.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	90.6	-90.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	434	0.0	6.4	-6.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	614	0.0	8.5	-8.5
3	220 kV	ALIPURDUAR-SALAKATI	2	0	110	0.0	1.5	-1.5
					ER-NER	0.0	16.5	-16.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	603	0.0	11.1	-11.1
					NER-NR	0.0	11.1	-11.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3006	0.0	39.4	-39.4
2	HVDC	VINDHYACHAL B/B	-	137	0	3.6	0.0	3.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	254	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	1872	0.0	24.3	-24.3
5	765 kV	GWALIOR-PHAGI	2	0	2116	0.0	32.0	-32.0
6	765 kV	JABALPUR-ORAI	2	0	870	0.0	27.0	-27.0
7	765 kV	GWALIOR-ORAI	1	1011	0	16.6	0.0	16.6
8	765 kV	SATNA-ORAI	1	0	1005	0.0	19.2	-19.2
9	765 kV	BANASKANTHA-CHITORGARH	2	1744	0	26.4	0.0	26.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2428	0.0	41.5	-41.5
11	400 kV	ZERDA-KANKROLI	1	313	0	5.3	0.0	5.3
12	400 kV	ZERDA -BHINMAL	1	447	0	5.6	0.0	5.6
13	400 kV	VINDHYACHAL -RIHAND	1	972	0	19.8	0.0	19.8
14	400 kV	RAPP-SHUJALPUR	2	137	264	0.0	0.8	-0.8
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0
17	220 kV	MEHGAON-AURAIYA	1	136	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	90	0	2.3	0.0	2.3
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	80.8	191.3	-110.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	693	718	5.2	0.0	5.2
2	HVDC	RAIGARH-PUGALUR	2	963	1500	0.0	0.1	-0.1
3	765 kV	SOLAPUR-RAICHUR	2	1959	1743	0.0	2.0	-2.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2916	0.0	35.7	-35.7
5	400 kV	KOLHAPUR-KUDGI	2	1505	0	21.7	0.0	21.7
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	68	1.2	0.0	1.2
					WR-SR	28.1	37.9	-9.8

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)	80	0	39	0.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	214	0	161	3.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	10	5	10	-0.3
	NER	132kV GELEPHU-SALAKATI	9	0	2	0.1
	NER	132kV MOTANGA-RANGIA	-18	0	-3	-0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-62	0	-21	-0.5
	ER	NEPAL IMPORT (FROM BIHAR)	-135	0	-57	-1.4
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	314	0	-176	-4.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-447	-398	-447	-11.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-78	0	-69	-1.7