

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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 22nd Dec 2021

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14, गोल्फ क्लब रोड, कोलकाता 700033
 Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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 21.12.2021.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-दिसंबर-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ 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 21st 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: 22-Dec-2021

A. Power Suppl	y Position at All India and Regional level						
		NR	WR	SR	ER	NER	TOTAL
Demand Met dur	ring Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	54092	56830	40481	19339	2584	173326
Peak Shortage (M	MW)	1200	0	0	470	0	1670
Energy Met (MU	D)	1089	1280	909	390	46	3714
Hydro Gen (MU))	111	37	94	30	11	283
Wind Gen (MU)		1	8	18		-	27
Solar Gen (MU)*	•	63.61	41.34	103.07	4.90	0.28	213
Energy Shortage	(MU)	8.09	0.18	0.00	6.99	0.00	15.26
Maximum Demai	nd Met During the Day (MW) (From NLDC SCADA)	55885	62606	44959	19761	2667	180794
Time Of Maximu	ım Demand Met (From NLDC SCADA)	10:55	11:05	08:13	18:18	17:32	10:55
B. Frequency Pr	rofile (%)						
Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.043	0.00	1.15	8.27	9.42	76.37	14.21

C. Power Supply Position in States Max.Demand Shortage during | Energy Met Drawal OD(+)/UD(-) Max OD Energy Region States Met during the Schedule maximum Shortage (MU) (MU) (MW) dav(MW) Demand(MW) (MU) (MU) Punjab Haryana 7497 137.9 79.3 1.2 180 0.00 280.0 72.4 323.2 42.3 Delhi 4285 60.8 -0.7 208 0.00 UP Uttarakhand 18399 2241 105.0 29.0 0.3 311 108 NR 0.00 1902 2909 250 26.9 51.0 339 353 34.6 -0.1 0.33 J&K(UT) & Ladakh(UT) 250 58.2 2.0 4.65 Chandigarh Chhattisgarh 0.00 3812 81.9 355.9 0.6 301 0.00 Gujarat 17361 200.7 707 0.18 0.8 WR Maharashtra 24359 488.6 138.2 525 0.00 11.6 DD328 6.9 0.3 0.00 829 777 19.2 DNH AMNSIL 7.0 17.1 0.2 267 0.00 Andhra Pradesh Telangana 8664 9920 10542 76.6 68.1 167.3 0.2 0.00 183.1 -0.4 0.00 SR Karnataka 190.9 -0.1 0.00 74.3 -0.5 293 0.00 Kerala 14132 286.8 7.0 Tamil Nadu 180.6 636 0.00 Puducherry Bihar 4899 81.0 69.9 0.3 329 0.60 Jharkhand 1489 308 26.6 21.1 0.1 4.68 ER Odisha 47.0 West Bengal 6138 112.4 -12.7-0.3 256 0.00 Sikkim Arunachal Pradesh 124 139 1.8 2.4 1.9 -0.1 0.00 0 0.0 31 0.00 18.2 3.3 5.9 Assam 1452 24.6 0.00 -0.1 0.00 Manipur 221 391 NER Meghalaya Mizoram 0.1 -0.3 0.00 146 213 Nagaland 0 0.0 0.00

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.5	-5.5	-12.2
Day Peak (MW)	268.0	-508.5	-587.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	239.1	-148.9	79.3	-165.9	-3.5	0.0
Actual(MU)	234.5	-140.2	78.4	-170.7	-4.5	-2.6
O/D/U/D(MU)	-4.6	8.7	-0.9	-4.8	-1.0	-2.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6422	12468	6992	2325	380	28587	40
State Sector	10381	17086	11621	3668	112	42867	60
Total	16803	29553	18613	5993	492	71453	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	607	1288	486	549	14	2944	78 78
Lignite	22	11	41	0	0	74	2
Hydro	111	37	94	30	11	283	7
Nuclear	32	33	70	0	0	135	4
Gas, Naptha & Diesel	15	13	6	0	30	63	2
RES (Wind, Solar, Biomass & Others)	90	51	148	5	0	295	8
Total	877	1433	845	584	55	3794	100
GL APPGLANT II (A/)							1
Share of RES in total generation (%)	10.27	3.55	17.55	0.85	0.51	7.76	
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	26.62	8.43	36.91	6.04	20.41	18.79	

H. All India Demand Diversity Factor Based on Regional Max Demands

Dasca on Regional Max Demands	1.020
Based on State Max Demands	1.077

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.

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 22-Dec-2021

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Export (MU) 0.0 0.0 15.0	NET (MU)
NO NO NO NO NO NO NO NO	0.0	
1 HVDC ALPURDUAR-AGRA 2 0 0 0.0 2 HVDC PUSAULI BIB - 3 0 0.0 0.0 3 765 kV GAYA-VARANASI 2 0 962 0.0 4 765 kV SASARAM-FATEHPUR 1 0 619 0.0 5 765 kV GAYA-BALIA 1 0 650 0.0 6 400 kV PUSAULI-VARANASI 1 10 138 0.0 7 400 kV PUSAULI-ALLAHABAD 1 0 192 0.0 8 400 kV MUZAFFARPUR-GORAKHPUR 2 0 729 0.0 9 400 kV PUTAN-BALIA 4 0 1601 0.0	0.0	
2 HVDC PUSAULI B/B - 3 0 0.0 3 765 kV GAYA-VARANASI 2 0 962 0.0 4 765 kV SASARAM-FATEHPUR 1 0 619 0.0 5 765 kV GAYA-BALIA 1 0 650 0.0 6 400 kV PUSAULI-VARANASI 1 10 138 0.0 7 400 kV PUSAULI-VARANASI 1 0 192 0.0 8 400 kV MUZAFARPUR-GORAKHPUR 2 0 729 0.0 9 400 kV PATNA-BALIA 4 0 1601 0.0	0.0	0.0
3 765 kV GAYA-VARANASI 2 0 962 0.0		0.0
4 765 kV SASARAM-FATEHPUR 1 0 619 0.0 5 765 kV GAYA-BALIA 1 0 650 0.0 6 400 kV PUSAULI-VARANASI 1 10 138 0.0 7 400 kV PUSAULI-ALLAHABAD 1 0 192 0.0 8 400 kV MUZAFFARPUR-GORAKHPUR 2 0 729 0.0 9 400 kV PATNA-BALIA 4 0 1601 0.0		-15.0
5 765 kV GAYA-BALIA 1 0 650 0,0 6 400 kV PUSAULI-VARANASI 1 10 138 0,0 7 400 kV PUSAULI-ALLAHABAD 1 0 192 0,0 8 400 kV MUZAFFARPUR-GORAKHPUR 2 0 729 0,0 9 400 kV PATNA-BALIA 4 0 1601 0,0	10.9	-10.9
6 400 kV PUSAULI-VARANASI 1 10 138 0.0 7 400 kV PUSAULI-ALLAHABAD 1 0 192 0.0 8 400 kV MUZAFFARPUR-GORAKHPUR 2 0 729 0.0 9 400 kV PATNA-BALIA 4 0 1601 0.0	10.6	-10.6
8 400 kV MUZAFFARPUR-GORAKHPUR 2 0 729 0.0 9 400 kV PATNA-BALIA 4 0 1601 0.0	1.9	-1.9
9 400 kV PATNA-BALIA 4 0 1601 0.0	3.1	-3.1
	10.2	-10.2
	27.2 7.4	-27.2 -7.4
10 400 kV BIHARSHARIFF-BALIA 2 0 545 0.0 11 400 kV MOTHARI-GORAKHPUR 2 0 683 0.0	10.4	-10.4
12 400 kV BHARSHARIFF-VARANASI 2 0 399 0.0	6.4	-6.4
13 220 kV PUSAULI-SAHUPURI 1 0 159 0.0	1.8	-1.8
14 132 kV SONE NAGAR-RIHAND 1 0 0 0.1	0.0	0.1
15 132 kV GARWAH-RIHAND 1 25 0 0.3	0.0	0.3
16 132 kV KARMANASA-SAHUPURI 1 0 50 0.0	0.0	0.0
17 132 kV KARMANASA-CHANDAULI	0.0	0.0
ER-NR 0.5 Import/Export of ER (With WR)	104.7	-104.2
1 765 kV JHARSUGUDA-DHARAMJAIGARH 4 566 338 1.4	0.0	1.4
	10.0	
		-10.0
3 765 kV JHARSUGUDA-DURG 2 72 279 0.0	2,2	-2.2
4 400 kV JHARSUGUDA-RAIGARH 4 160 363 0.0	2.7	-2.7
5 400 kV RANCHI-SIPAT 2 69 302 0.0	2.6	-2.6
6 220 kV BUDHIPADAR-RAIGARH 1 72 70 0.0	0.1	-0.1
7 220 kV BUDHIPADAR-KORBA 2 99 0 1.3	0.0	1.3
ER-WR 2.7	17.7	-15.0
Import/Export of ER (With SR)		
1 HVDC JEYPORE-GAZUWAKA B/B 2 393 0 9.8	0.0	9.8
2 HVDC TALCHER-KOLAR BIPOLE 2 0 1984 0.0	37.9	-37.9
3 765 kV ANGUL-SRIKAKULAM 2 0 2834 0.0	53.8	-53.8
4 400 kV TALCHER-I/C 2 890 982 0.3	0.0	0.3
5 220 kV BALIMELA-UPPER-SILERRU 1 2 0 0,0 ER-SR 9,8		0.0
ER-SR 9.8 Import/Export of ER (With NER)	91.7	-81.9
1 400 kV BINAGURI-BONGAIGAON 2 60 227 0.0	3.1	-3.1
2 400 kV ALIPURDUAR-BONGAIGAON 2 94 320 0.0	3.9	-3.9
3 220 kV ALIPURDUAR-SALAKATI 2 11 60 0.0	0.7	-0.7
ER-NER 0.0	7.7	-7.7
Import/Export of NER (With NR)		
1 HVDC BISWANATH CHARIALI-AGRA 2 0 503 0.0	12.0	-12.0
NER-NR 0.0	12.0	-12.0
Import/Export of WR (With NR) 1	48.9	-48.9
1 HVDC CHAMPA-KURUKSHETRA 2 0 3014 0.0 2 HVDC VINDHYACHAL B/B - 448 0 12.1	0.0	12.1
2 HVDC VISUATACHALD/B - 440 0 1241 3 HVDC MUNDRA-MOHINDERGARH 2 0 254 0.0	6.2	-6.2
4 765 kV GWALIOR-AGRA 2 0 1647 0.0	26.5	-26.5
5 765 kV GWALIOR-PHAGI 2 0 2403 0.0	38.9	-38.9
6 765 kV JABALPUR-ORAI 2 0 1102 0.0	33.7	-33.7
7 765 kV GWALIOR-ORAI 1 941 0 14.0	0.0	14.0
8 765 kV SATNA-ORAI 1 0 1025 0.0	11.2	-11.2
9 765 kV BANASKANTHA-CHITORGARH 2 1376 0 25.9	0.0	25.9
10 765 kV VINDHYACHAL-VARANASI 2 0 2434 0.0	39.0	-39.0
11 400 kV ZERDA-KANKROLI 1 288 0 5.0 12 400 kV ZERDA-BHINMAL 1 371 40 3.8	0.0	5.0
12 400 kV ZERDA -BHINMAL 1 371 40 3.8 13 400 kV VINDHYACHAL -RIHAND 1 976 0 22.1	0.0	3.8 22.1
13 400 kV 1/1/DH1ACHAL-NHAWD 1 2/0 0 2/2/1 14 400 kV RAPP-SHUALPUR 2 16 373 0.0	2.9	-2.9
15 220 kV BHANPURA-RANPUR 1 0 0 0.0	0.0	0.0
16 220 kV BHANPURA-MORAK 1 0 30 1.6	0.0	1.6
17 220 kV MEHGAON-AURAIYA 1 137 0 1.3	0.0	1.3
18 220 kV MALANPUR-AURAIYA 1 86 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	0.0	0.0
WR-NR 88.1 Import/Export of WR (With SR)	207.2	-119.1
	3.6	2.2
1 HVDC BHADRAWATI B/B - 398 820 5.9 2 HVDC RAIGARH-PUGALUR 2 709 2001 0.0	14.0	2.3 -14.0
2 HYDE RANARIT CONTER 2 109 2001 0.0 3 765 kV SOLAPUR-RAICHUR 2 517 1273 1.3	9.4	-8.1
3 765 kV WARDH-NIZAMABAD 2 0 2820 0.0	40.3	-40.3
5 400 kV KOLHAPUR-KUDGI 2 1412 0 23.1	0.0	23.1
6 220 kV KOLHAPUR-CHIKODI 2 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 56 1.0 WR-SR 31.3	0.0	1.0
	67.3	-36.0
INTERNATIONAL EXCHANGES	Import	(+ve)/Export(-ve)
State Region Line Name Max (MW) Min (MW)	Avg (MW)	Energy Exchange
400kV MANGDECHHU-ALIPURDUAR	9	(MID
400KY MANGBECHHU-ALIPKUUAK ER 1,283 i.e. ALIPURDUAR RECEIPT (from 92 0	56	1.4
MANCDECHU HEP 4*180MW)	20	1.4
400kV TALA-BINAGURI 1,2,4 (& 400kV		
ER MALBASE - BINAGURI 157 0	135	3.2
RECEIPT (from TALA HEF (6*170MW) 1200V CHUKHA-BIRPARA 1&2 (& 2200V		1
2208V CHUKHA-BIRPAKA 1&2 (& 220KV BHUTAN ER MALBASE - BIRPAKA 4 0 0	-10	-0.3
BHUTAN ER MALBASE - BIRTARA 14 0 RECEIPT (from CHUKHA HEP 4*84MW)	-10	-0.3
		i
NER 132kV GELEPHU-SALAKATI 8 1	7	0.2
	2	
NED 120W MOTING A DANGE	2	0.1
NER 132kV MOTANGA-RANGIA 7 1		1
	0	0.0
132kV MAHENDRANAGAR-		
132kV MAHENDRANAGAR.	+	
NR 132kV MAHENDRANAGAR- TANAKPUR(NHPC) 0 0	70	
132kV MAHENDRANAGAR-	-78	-1.9
NR 132kV MAHENDRANAGAR- TANAKPUR(NHPC) 0 0	-78	-1.9
NR 132kV MAHENDRANAGAR- TANAKPUR(NHPC) 0 0	-78 -153	-1.9
NR 132kV MAHENDRANAGAR- 0 0 0		
NR 132kV MAHENDRANAGAR- 0 0 0	-153	-3.7
NR 132kV MAHENDRANAGAR- 0 0 0		
NR 132kV MAHENDRANAGAR- 0 0 0	-153	-3.7
NR	-153	-3.7