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: 30th 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 29.12.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-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 29th 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:** **30-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)	52602	53180	41357	19097	2602	168838
Peak Shortage (MW)	625	0	0	177	0	802
Energy Met (MU)	1004	1171	960	372	46	3553
Hydro Gen (MU)	103	32	82	29	11	257
Wind Gen (MU)	15	69	42	-	-	126
Solar Gen (MU)*	55.27	30.93	94.71	4.14	0.11	185
Energy Shortage (MU)	6.41	0.00	0.00	1.24	0.00	7.65
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53164	56824	48314	19483	2703	174626
Time Of Maximum Demand Met (From NLDC SCADA)	18:25	10:50	09:40	18:23	17:53	10:34

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	0.041	0.00	0.49	3.21	3.69	67.35	28.95

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	6978	0	127.4	64.2	-1.0	131	1.76
	Haryana	6972	0	130.0	71.2	0.6	193	0.00
	Rajasthan	14153	0	256.4	63.4	-0.5	494	0.00
	Delhi	4333	0	70.1	59.6	-1.8	184	0.00
	UP	17713	0	278.2	70.3	-5.1	473	0.00
	Uttarakhand	2300	0	41.6	29.4	-0.1	110	0.00
	HP	1915	0	35.7	28.3	0.3	312	0.00
	J&K(UT) & Ladakh(UT)	2844	250	60.6	55.0	0.5	150	4.65
	Chandigarh	242	0	3.9	4.0	0.0	25	0.00
WR	Chhattisgarh	2996	0	63.7	16.6	-1.4	268	0.00
	Gujarat	16231	0	338.1	173.2	-0.5	523	0.00
	MP	12639	0	241.3	141.9	0.1	993	0.00
	Maharashtra	23191	0	472.5	154.2	-2.3	847	0.00
	Goa	595	0	12.0	11.6	-0.1	26	0.00
	DD	315	0	7.0	6.8	0.2	28	0.00
	DNH	836	0	19.2	19.2	0.0	100	0.00
	AMNSIL	773	0	17.0	7.8	-0.1	272	0.00
SR	Andhra Pradesh	9462	0	179.3	82.9	0.3	371	0.00
	Telangana	10629	0	196.9	84.3	0.6	511	0.00
	Karnataka	11536	0	206.6	53.6	0.3	714	0.00
	Kerala	3704	0	72.8	55.2	0.2	208	0.00
	Tamil Nadu	14113	0	297.1	165.6	-0.2	471	0.00
	Puducherry	359	0	7.3	7.6	-0.3	50	0.00
ER	Bihar	3971	0	66.2	56.9	-0.6	567	0.58
	DVC	3383	0	63.9	-33.7	-2.6	494	0.51
	Jharkhand	1647	0	25.4	17.7	-1.7	358	0.16
	Odisha	5248	0	101.5	58.3	0.0	369	0.00
	West Bengal	6177	0	113.4	-8.6	-0.2	192	0.00
	Sikkim	118	0	1.8	1.9	-0.1	60	0.00
NER	Arunachal Pradesh	146	0	2.3	2.2	0.0	41	0.00
	Assam	1464	0	25.1	18.5	0.0	125	0.00
	Manipur	243	0	3.1	3.5	-0.5	23	0.00
	Meghalaya	398	0	7.8	5.9	0.1	38	0.00
	Mizoram	130	0	2.0	1.5	-0.1	19	0.00
	Nagaland	147	0	2.6	2.0	0.4	18	0.00
	Tripura	216	0	3.5	3.6	-0.1	52	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.0	-5.1	-12.0
Day Peak (MW)	336.0	-557.3	-534.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	215.3	-172.0	107.9	-155.7	4.4	0.0
Actual(MU)	229.3	-188.6	118.5	-164.5	5.0	-0.4
O/D/U/D(MU)	14.0	-16.7	10.6	-8.8	0.6	-0.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8666	11768	7312	1800	664	30209	41
State Sector	9470	19291	9883	4518	112	43274	59
Total	18136	31059	17195	6318	776	73483	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	555	1181	481	536	8	2761	76
Lignite	23	10	48	0	0	82	2
Hydro	103	32	82	29	11	257	7
Nuclear	28	33	69	0	0	131	4
Gas, Naptha & Diesel	13	7	9	0	26	55	2
RES (Wind, Solar, Biomass & Others)	96	101	165	4	0	366	10
Total	818	1364	854	569	46	3652	100

Share of RES in total generation (%)	11.74	7.43	19.29	0.72	0.24	10.03
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.74	12.21	36.98	5.81	25.25	20.65

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
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.**

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 30-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	-	4	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	0	938	0.0	11.9	-11.9
4	765 kV	SASARAM-FATEHPUR	1	0	602	0.0	9.1	-9.1
5	765 kV	GAYA-BALIA	1	0	637	0.0	9.7	-9.7
6	400 kV	PUSAULI-VARANASI	1	20	142	0.0	1.7	-1.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	200	0.0	2.3	-2.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	997	0.0	13.5	-13.5
9	400 kV	PATNA-BALIA	4	0	1689	0.0	28.4	-28.4
10	400 kV	BIHARSHARIFF-BALIA	2	0	553	0.0	8.0	-8.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	725	0.0	9.3	-9.3
12	400 kV	BIHARSHARIFF-VARANASI	2	0	390	0.0	6.3	-6.3
13	220 kV	PUSAULI-SAHUPURI	1	0	120	0.0	1.5	-1.5
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.1	0.0	0.1
15	132 kV	GARWAH-RIHAND	1	25	0	0.2	0.0	0.2
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	101.7	-101.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	672	746	3.8	0.0	3.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	221	1112	0.0	10.5	-10.5
3	765 kV	JHARSUGUDA-DURG	2	633	516	0.0	0.9	-0.9
4	400 kV	JHARSUGUDA-RAIGARH	4	335	95	2.9	0.0	2.9
5	400 kV	RANCHI-SIPAT	2	146	261	0.0	1.7	-1.7
6	220 kV	BUDHIPADAR-RAIGARH	1	86	39	0.8	0.0	0.8
7	220 kV	BUDHIPADAR-KORBA	2	127	0	2.1	0.0	2.1
					ER-WR	9.6	13.1	-3.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	411	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2467	0.0	34.1	-34.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2853	0.0	51.5	-51.5
4	400 kV	TALCHER-I/C	2	926	678	5.6	0.0	5.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	94.3	-94.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	68	234	0.0	2.2	-2.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	108	328	0.0	2.3	-2.3
3	220 kV	ALIPURDUAR-SALAKATI	2	8	64	0.0	0.5	-0.5
					ER-NER	0.0	5.1	-5.0
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	3519	0.0	59.8	-59.8
2	HVDC	VINDHYACHAL B/B	-	449	246	7.7	0.0	7.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	791	0.0	8.1	-8.1
4	765 kV	GWALIOR-AGRA	2	0	1626	0.0	22.0	-22.0
5	765 kV	GWALIOR-PHAGI	2	0	1753	0.0	26.2	-26.2
6	765 kV	JABALPUR-ORAI	2	0	883	0.0	23.3	-23.3
7	765 kV	GWALIOR-ORAI	1	892	0	13.4	0.0	13.4
8	765 kV	SATNA-ORAI	1	0	966	0.0	17.7	-17.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1245	0	17.7	0.0	17.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2357	0.0	30.8	-30.8
11	400 kV	ZERDA-KANKROLI	1	261	0	5.1	0.0	5.1
12	400 kV	ZERDA -BHINMAL	1	357	0	4.7	0.0	4.7
13	400 kV	VINDHYACHAL -RIHAND	1	708	0	10.3	0.0	10.3
14	400 kV	RAPP-SHUJALPUR	2	181	356	0.0	1.5	-1.5
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7
17	220 kV	MEHGAON-AURAIYA	1	121	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	76	0	0.8	0.0	0.8
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	61.3	190.0	-128.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	11.5	-11.5
2	HVDC	RAIGARH-PUGALUR	2	0	2504	0.0	20.7	-20.7
3	765 kV	SOLAPUR-RAICHUR	2	657	2065	0.0	13.1	-13.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2805	0.0	38.4	-38.4
5	400 kV	KOLHAPUR-KUDGI	2	1284	0	18.8	0.0	18.8
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	66	1.3	0.0	1.3
					WR-SR	20.1	83.7	-63.6

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)	99	0	55	1.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	215	191	207	5.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.3
	NER	132kV GELEPHU-SALAKATI	-8	0	-1	0.0
	NER	132kV MOTANGA-RANGIA	-12	-4	-5	-0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-50	0	-18	-0.4
	ER	NEPAL IMPORT (FROM BIHAR)	-131	0	-18	-0.4
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-376	-6	-176	-4.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-442	-397	-428	-10.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-92	0	-73	-1.8