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: 3rd 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 02.12.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 2-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 2nd 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:** **03-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)	46776	49886	38666	17849	2521	155698
Peak Shortage (MW)	538	0	0	316	0	854
Energy Met (MU)	959	1103	808	366	44	3281
Hydro Gen (MU)	112	31	109	45	12	308
Wind Gen (MU)	20	72	30	-	-	122
Solar Gen (MU)*	40.06	16.69	73.79	4.87	0.29	136
Energy Shortage (MU)	9.71	0.00	0.00	4.05	0.00	13.76
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48227	53316	39226	18586	2630	158695
Time Of Maximum Demand Met (From NLDC SCADA)	11:20	10:50	18:31	17:51	17:23	18:21

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	0.034	0.00	0.03	5.10	5.14	75.19	19.67

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	6014	0	122.1	58.2	0.2	297	4.00
	Haryana	6652	0	125.8	85.1	0.2	172	0.00
	Rajasthan	12969	110	244.8	67.6	0.2	542	1.06
	Delhi	3673	0	63.3	51.9	-1.1	125	0.00
	UP	15344	0	274.5	117.8	-1.7	553	0.00
	Uttarakhand	1961	0	36.6	26.1	0.9	147	0.00
	HP	1728	0	32.6	23.9	-0.1	145	0.00
	J&K(UT) & Ladakh(UT)	2723	300	55.9	51.7	-0.9	122	4.65
	Chandigarh	203	0	3.4	3.6	-0.3	36	0.00
WR	Chhattisgarh	3470	0	73.0	28.3	-0.7	243	0.00
	Gujarat	15580	0	313.6	188.2	-4.4	401	0.00
	MP	11967	0	241.7	148.8	-2.8	571	0.00
	Maharashtra	20181	0	421.3	121.0	-2.9	885	0.00
	Goa	579	0	11.9	11.5	-0.2	95	0.00
	DD	314	0	7.0	6.8	0.2	58	0.00
	DNH	810	0	18.5	18.4	0.1	53	0.00
	AMNSIL	745	0	16.0	7.8	0.0	303	0.00
SR	Andhra Pradesh	7247	0	147.8	53.9	-0.1	433	0.00
	Telangana	8056	0	158.4	57.3	-0.3	557	0.00
	Karnataka	8234	0	155.3	35.0	0.6	783	0.00
	Kerala	3685	0	73.8	37.2	-0.8	172	0.00
	Tamil Nadu	13337	0	265.8	154.1	0.5	943	0.00
	Puducherry	342	0	6.7	7.2	-0.5	19	0.00
ER	Bihar	4287	0	75.0	60.7	2.3	256	0.00
	DVC	3022	0	62.0	-38.6	-3.3	192	1.52
	Jharkhand	1366	0	27.3	19.1	-0.8	161	2.53
	Odisha	4448	0	85.4	22.3	-0.5	485	0.00
	West Bengal	6472	0	114.9	-6.2	-0.2	256	0.00
	Sikkim	104	0	1.7	1.0	0.7	75	0.00
NER	Arunachal Pradesh	136	0	2.3	2.1	0.1	26	0.00
	Assam	1502	0	24.6	17.9	-0.1	106	0.00
	Manipur	229	0	3.0	3.0	0.0	24	0.00
	Meghalaya	386	0	6.9	5.3	0.3	54	0.00
	Mizoram	122	0	1.8	1.5	-0.2	19	0.00
	Nagaland	142	0	2.3	2.2	0.0	20	0.00
	Tripura	220	0	3.6	1.6	-0.3	17	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	10.1	1.2	-16.9
Day Peak (MW)	662.0	70.0	-820.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	223.8	-153.9	95.3	-160.4	-4.8	0.0
Actual(MU)	235.4	-179.9	99.9	-155.2	-4.4	-4.1
O/D/U/D(MU)	11.6	-26.0	4.6	5.3	0.5	-4.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8186	14780	13002	4440	384	40791	46
State Sector	14680	19934	11021	2658	11	48303	54
Total	22866	34713	24023	7098	395	89094	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	498	1128	374	491	12	2503	74
Lignite	22	12	35	0	0	69	2
Hydro	112	31	109	45	12	308	9
Nuclear	23	33	69	0	0	126	4
Gas, Naptha & Diesel	15	9	9	0	29	63	2
RES (Wind, Solar, Biomass & Others)	80	89	129	5	0	302	9
Total	751	1302	724	540	53	3370	100

Share of RES in total generation (%)	10.69	6.81	17.75	0.90	0.54	8.98	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.68	11.72	42.33	9.17	22.56	21.84	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.060

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: 03-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	502	0.0	12.2	-12.2
2	HVDC	PUSAULI B/B	-	0	251	0.0	6.3	-6.3
3	765 kV	GAYA-VARANASI	2	0	795	0.0	9.4	-9.4
4	765 kV	SASARAM-FATEHPUR	1	0	572	0.0	8.8	-8.8
5	765 kV	GAYA-BALIA	1	0	483	0.0	7.6	-7.6
6	400 kV	PUSAULI-VARANASI	1	0	176	0.0	3.4	-3.4
7	400 kV	PUSAULI -ALLAHABAD	1	0	155	0.0	2.7	-2.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	662	0.0	9.9	-9.9
9	400 kV	PATNA-BALIA	4	0	772	0.0	10.5	-10.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	385	0.0	4.4	-4.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	338	0.0	5.3	-5.3
12	400 kV	BIHARSHARIFF-VARANASI	2	3	332	0.0	4.2	-4.2
13	220 kV	PUSAULI-SAHUPURI	1	0	109	0.0	1.1	-1.1
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	85.8	-85.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1686	0	15.2	0.0	15.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	137	747	0.0	5.4	-5.4
3	765 kV	JHARSUGUDA-DURG	2	175	337	0.0	0.8	-0.8
4	400 kV	JHARSUGUDA-RAIGARH	4	232	314	0.0	1.5	-1.5
5	400 kV	RANCHI-SIPAT	2	101	246	0.0	1.7	-1.7
6	220 kV	BUDHIPADAR-RAIGARH	1	30	95	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	106	22	0.9	0.0	0.9
					ER-WR	16.1	10.4	5.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	739	0.0	8.8	-8.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1990	0.0	45.1	-45.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	3159	0.0	49.4	-49.4
4	400 kV	TALCHER-I/C	2	0	909	0.0	15.7	-15.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	103.3	-103.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	287	0.0	4.9	-4.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	143	237	0.0	2.2	-2.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	58	0.0	0.7	-0.7
					ER-NER	0.0	7.8	-7.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.1	-12.1
					NER-NR	0.0	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3071	0.0	51.3	-51.3
2	HVDC	VINDHYACHAL B/B	-	227	0	4.6	0.0	4.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	497	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	0	1811	0.0	31.6	-31.6
5	765 kV	GWALIOR-PHAGI	2	0	2291	0.0	31.2	-31.2
6	765 kV	JABALPUR-ORAI	2	0	937	0.0	29.2	-29.2
7	765 kV	GWALIOR-ORAI	1	790	0	14.5	0.0	14.5
8	765 kV	SATNA-ORAI	1	0	1109	0.0	21.1	-21.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1143	0	17.4	0.0	17.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	1891	0.0	35.4	-35.4
11	400 kV	ZERDA-KANKROLI	1	247	0	4.4	0.0	4.4
12	400 kV	ZERDA -BHINMAL	1	295	0	3.9	0.0	3.9
13	400 kV	VINDHYACHAL -RIHAND	1	971	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	0	490	0.0	4.6	-4.6
15	220 kV	BHANPURA-RANPUR	1	76	60	0.5	0.1	0.4
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9
17	220 kV	MEHGAON-AURAIYA	1	140	0	1.7	0.0	1.7
18	220 kV	MALANPUR-AURAIYA	1	98	0	2.4	0.0	2.4
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	71.0	217.4	-146.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	990	265	12.7	1.2	11.5
2	HVDC	RAIGARH-PUGALUR	2	1435	604	14.1	0.0	14.1
3	765 kV	SOLAPUR-RAICHUR	2	806	3067	1.4	26.7	-25.3
4	765 kV	WARDHA-NIZAMABAD	2	0	3059	0.0	39.2	-39.2
5	400 kV	KOLHAPUR-KUDGI	2	986	118	10.2	0.0	10.1
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	85	1.0	0.0	0.9
					WR-SR	39.3	67.1	-27.8

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)	148	0	118	2.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	496	311	337	8.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.0
	NER	132kV GELEPHU-SALAKATI	6	1	3	0.1
	NER	132kV MOTANGA-RANGIA	15	1	5	0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	70	33	50	1.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-720	-438	-616	-14.8
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-100	0	-88	-2.1