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: 5th 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 04.12.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 4-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 4th 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:** **05-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)	46453	52994	38156	16906	2494	157003
Peak Shortage (MW)	796	0	0	313	0	1109
Energy Met (MU)	955	1177	813	367	45	3356
Hydro Gen (MU)	117	30	110	48	12	316
Wind Gen (MU)	11	52	7	-	-	70
Solar Gen (MU)*	56.51	30.18	80.40	4.51	0.21	172
Energy Shortage (MU)	19.17	1.54	0.00	3.55	0.00	24.26
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48077	56334	38757	17788	2608	159268
Time Of Maximum Demand Met (From NLDC SCADA)	10:43	11:04	18:29	17:55	17:17	18:17

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	0.037	0.00	0.50	6.25	6.75	77.69	15.57

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	6679	0	123.0	71.9	-0.1	267	13.04
	Haryana	6514	0	124.9	85.1	-0.7	118	0.00
	Rajasthan	13814	0	248.5	83.1	0.9	393	1.12
	Delhi	3498	0	60.8	49.6	-1.9	87	0.00
	UP	15856	0	270.5	121.8	-3.0	289	0.00
	Uttarakhand	1913	0	35.6	24.7	-0.3	211	0.00
	HP	1759	0	31.8	22.8	-0.1	161	0.36
	J&K(UT) & Ladakh(UT)	2952	0	57.0	51.1	0.6	404	4.65
	Chandigarh	191	0	3.2	3.7	-0.5	16	0.00
WR	Chhattisgarh	3465	0	74.3	26.6	0.3	199	0.00
	Gujarat	16100	321	340.0	198.0	3.5	740	1.54
	MP	13101	0	266.1	167.4	-2.0	1090	0.00
	Maharashtra	20992	0	438.6	132.7	-1.9	780	0.00
	Goa	585	0	12.4	11.7	0.1	53	0.00
	DD	327	0	7.4	7.1	0.3	51	0.00
	DNH	827	0	19.1	18.8	0.3	55	0.00
	AMNSIL	879	0	18.9	8.9	0.0	318	0.00
SR	Andhra Pradesh	7318	0	150.2	68.9	-0.3	489	0.00
	Telangana	8175	0	161.9	68.4	-0.4	724	0.00
	Karnataka	7862	0	155.6	34.0	-1.0	741	0.00
	Kerala	3631	0	74.4	38.0	-1.3	208	0.00
	Tamil Nadu	12932	0	263.3	161.1	-0.7	731	0.00
	Puducherry	357	0	7.3	7.4	-0.1	52	0.00
ER	Bihar	4134	0	71.6	62.3	-0.7	263	0.00
	DVC	3025	0	64.5	-38.2	-2.2	441	1.32
	Jharkhand	1514	0	27.2	21.5	-0.5	214	2.23
	Odisha	4315	0	85.6	18.9	-1.0	497	0.00
	West Bengal	5993	0	116.2	-7.7	1.1	527	0.00
	Sikkim	102	0	1.7	1.2	0.5	65	0.00
NER	Arunachal Pradesh	117	0	2.3	2.1	-0.1	34	0.00
	Assam	1480	0	24.7	18.3	0.9	132	0.00
	Manipur	220	0	3.0	3.0	0.0	34	0.00
	Meghalaya	377	0	7.0	5.4	0.3	46	0.00
	Mizoram	116	0	1.8	1.5	0.1	43	0.00
	Nagaland	133	0	2.5	2.1	0.2	39	0.00
	Tripura	219	0	3.8	1.7	-0.2	24	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	9.5	1.4	-15.0
Day Peak (MW)	504.0	90.0	-823.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	243.4	-161.9	98.9	-175.9	-4.5	0.0
Actual(MU)	245.0	-172.0	101.3	-176.0	-2.3	-4.0
O/D/U/D(MU)	1.6	-10.1	2.4	0.0	2.2	-3.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8337	13745	9342	3680	519	35622	42
State Sector	14131	20119	11391	2868	11	48519	58
Total	22468	33863	20733	6548	530	84141	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	476	1199	395	512	13	2594	75
Lignite	18	12	32	0	0	62	2
Hydro	117	30	110	48	12	316	9
Nuclear	23	33	69	0	0	125	4
Gas, Naptha & Diesel	16	8	9	0	27	60	2
RES (Wind, Solar, Biomass & Others)	88	83	112	5	0	287	8
Total	737	1365	726	564	52	3445	100

Share of RES in total generation (%)	11.89	6.10	15.39	0.80	0.41	8.34
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.87	10.68	40.06	9.24	23.04	21.15

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
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: 05-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	501	0.0	12.1	-12.1
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	1046	0.0	14.0	-14.0
4	765 kV	SASARAM-FATEHPUR	1	0	650	0.0	10.0	-10.0
5	765 kV	GAYA-BALIA	1	0	458	0.0	7.5	-7.5
6	400 kV	PUSAULI-VARANASI	1	0	138	0.0	3.2	-3.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	180	0.0	2.7	-2.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	774	0.0	11.0	-11.0
9	400 kV	PATNA-BALIA	4	0	863	0.0	12.1	-12.1
10	400 kV	BIHARSHARIFF-BALIA	2	0	409	0.0	4.1	-4.1
11	400 kV	MOTIHARI-GORAKHPUR	2	0	430	0.0	6.6	-6.6
12	400 kV	BIHARSHARIFF-VARANASI	2	0	473	0.0	6.0	-6.0
13	220 kV	PUSAULI-SAHUPURI	1	0	120	0.0	1.6	-1.6
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.1	0.0	0.1
15	132 kV	GARWAH-RIHAND	1	25	0	0.6	0.0	0.6
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	0.7	96.7	-95.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	914	582	4.3	0.0	4.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	87	778	0.0	7.3	-7.3
3	765 kV	JHARSUGUDA-DURG	2	0	374	0.0	3.5	-3.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	642	0.0	7.9	-7.9
5	400 kV	RANCHI-SIPAT	2	56	286	0.0	2.7	-2.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	134	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	82	63	0.3	0.0	0.3
					ER-WR	4.6	23.0	-18.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	388	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1780	0.0	39.8	-39.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2584	0.0	44.9	-44.9
4	400 kV	TALCHER-I/C	2	209	695	0.0	4.5	-4.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	93.2	-93.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	291	0.0	5.1	-5.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	49	256	0.0	2.6	-2.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	63	0.0	1.5	-1.5
					ER-NER	0.0	9.2	-9.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	11.9	-11.9
					NER-NR	0.0	11.9	-11.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2510	0.0	41.5	-41.5
2	HVDC	VINDHYACHAL B/B	-	227	0	5.9	0.0	5.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	498	0.0	8.0	-8.0
4	765 kV	GWALIOR-AGRA	2	0	2060	0.0	29.8	-29.8
5	765 kV	GWALIOR-PHAGI	2	0	2610	0.0	42.0	-42.0
6	765 kV	JABALPUR-ORAI	2	0	1093	0.0	33.4	-33.4
7	765 kV	GWALIOR-ORAI	1	883	0	17.4	0.0	17.4
8	765 kV	SATNA-ORAI	1	0	1171	0.0	23.0	-23.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1471	0	18.6	0.0	18.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	1977	0.0	35.4	-35.4
11	400 kV	ZERDA-KANKROLI	1	296	0	4.2	0.0	4.2
12	400 kV	ZERDA -BHINMAL	1	259	50	3.0	0.0	3.0
13	400 kV	VINDHYACHAL -RIHAND	1	982	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	0	600	0.0	5.9	-5.9
15	220 kV	BHANPURA-RANPUR	1	85	70	0.6	0.2	0.4
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.1	-1.1
17	220 kV	MEHGAON-AURAIYA	1	146	0	1.7	0.0	1.7
18	220 kV	MALANPUR-AURAIYA	1	106	0	2.5	0.0	2.5
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	76.0	220.3	-144.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	265	0.0	6.2	-6.2
2	HVDC	RAIGARH-PUGALUR	2	0	606	0.0	14.6	-14.6
3	765 kV	SOLAPUR-RAICHUR	2	1580	2068	0.0	11.7	-11.7
4	765 kV	WARDHA-NIZAMABAD	2	233	2180	0.0	30.4	-30.4
5	400 kV	KOLHAPUR-KUDGI	2	1194	0	15.9	0.0	15.9
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	90	1.1	0.0	1.1
					WR-SR	17.0	62.9	-45.9

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)	145	0	118	2.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	296	229	232	5.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	44	0	27	0.6
	NER	132kV GELEPHU-SALAKATI	7	2	10	0.2
	NER	132kV MOTANGA-RANGIA	13	4	8	0.2
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	90	38	57	1.4
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-720	-384	-553	-13.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-103	0	-73	-1.8