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: 9th Nov 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 08.11.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-नवंबर-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 8th November 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:** **09-Nov-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)	43359	49277	37595	19204	2527	151962
Peak Shortage (MW)	880	0	0	171	0	1051
Energy Met (MU)	883	1138	807	389	44	3261
Hydro Gen (MU)	139	36	149	70	16	410
Wind Gen (MU)	2	78	19	-	-	99
Solar Gen (MU)*	56.30	39.97	65.50	4.70	0.32	167
Energy Shortage (MU)	11.19	0.00	0.00	2.56	0.12	13.87
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	44341	53358	38740	19405	2570	155121
Time Of Maximum Demand Met (From NLDC SCADA)	18:38	11:43	18:33	18:59	17:54	18:33

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	0.100	0.80	6.87	14.77	22.44	65.57	11.99

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	5640	400	110.5	55.6	-1.0	190	2.30
	Haryana	5763	0	111.3	89.5	0.3	176	0.30
	Rajasthan	12846	233	230.7	79.5	1.3	247	3.08
	Delhi	3261	0	60.0	49.1	-1.3	119	0.00
	UP	14605	0	256.8	92.5	-0.3	563	1.36
	Uttarakhand	1701	0	32.1	19.4	0.8	124	0.70
	HP	1644	0	30.3	16.9	-0.6	214	0.00
	J&K(UT) & Ladakh(UT)	2519	200	48.6	45.2	-2.6	145	3.45
	Chandigarh	167	0	3.0	3.7	-0.7	17	0.00
WR	Chhattisgarh	3483	0	73.2	30.3	-1.5	214	0.00
	Gujarat	13640	0	292.6	187.2	3.2	929	0.00
	MP	11731	0	242.5	166.9	-0.1	637	0.00
	Maharashtra	22961	0	474.5	135.8	-5.1	622	0.00
	Goa	618	0	12.1	12.2	-1.2	93	0.00
	DD	317	0	6.9	6.6	0.3	44	0.00
	DNH	817	0	18.5	18.0	0.5	114	0.00
	AMNSIL	824	0	17.3	9.2	-0.5	298	0.00
SR	Andhra Pradesh	7554	0	162.9	63.2	-0.8	509	0.00
	Telangana	7870	0	159.4	34.9	-1.0	353	0.00
	Karnataka	8926	0	172.4	43.9	-3.0	477	0.00
	Kerala	3479	0	71.5	32.5	-1.1	171	0.00
	Tamil Nadu	11898	0	234.6	153.5	-0.9	1399	0.00
	Puducherry	333	0	6.6	7.2	-0.6	46	0.00
ER	Bihar	4357	0	78.5	66.9	0.7	239	0.00
	DVC	3221	0	65.4	-41.6	-1.0	328	1.32
	Jharkhand	1435	0	26.2	22.1	-2.0	135	1.25
	Odisha	5201	0	101.1	46.7	-0.6	303	0.00
	West Bengal	6430	0	116.2	-1.3	-0.9	312	0.00
	Sikkim	97	0	1.5	1.4	0.0	35	0.00
NER	Arunachal Pradesh	112	0	2.2	2.2	-0.1	52	0.00
	Assam	1495	0	24.9	18.0	-0.1	79	0.00
	Manipur	195	18	2.4	2.5	-0.1	45	0.12
	Meghalaya	387	0	6.4	4.5	-0.1	31	0.00
	Mizoram	111	0	1.7	1.3	-0.1	5	0.00
	Nagaland	138	0	2.2	2.0	0.0	20	0.00
	Tripura	236	0	4.0	2.1	-0.3	20	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	21.4	1.5	-18.8
Day Peak (MW)	996.0	84.0	-842.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	188.3	-60.1	52.7	-176.0	-4.9	0.0
Actual(MU)	190.3	-55.4	48.8	-179.9	-7.8	-3.9
O/D/U/D(MU)	2.0	4.8	-3.9	-3.9	-2.9	-3.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8313	20095	10512	2580	559	42058	44
State Sector	15951	22409	10983	4853	11	54206	56
Total	24264	42504	21495	7433	570	96264	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	439	997	413	537	10	2395	71
Lignite	24	11	25	0	0	61	2
Hydro	139	36	149	70	16	410	12
Nuclear	27	33	69	0	0	129	4
Gas, Naptha & Diesel	17	13	7	0	30	66	2
RES (Wind, Solar, Biomass & Others)	69	118	111	5	0	304	9
Total	715	1208	775	611	56	3364	100

Share of RES in total generation (%)	9.64	9.80	14.35	0.78	0.57	9.02	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.88	15.49	42.52	12.20	28.94	25.04	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.070

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: 09-Nov-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	12.3	-12.3
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	0	796	0.0	9.3	-9.3
4	765 kV	SASARAM-FATEHPUR	1	0	617	0.0	9.8	-9.8
5	765 kV	GAYA-BALIA	1	0	543	0.0	9.7	-9.7
6	400 kV	PUSAULI-VARANASI	1	0	180	0.0	3.4	-3.4
7	400 kV	PUSAULI -ALLAHABAD	1	0	153	0.0	2.6	-2.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	988	0.0	15.1	-15.1
9	400 kV	PATNA-BALIA	4	0	710	0.0	11.2	-11.2
10	400 kV	BIHARSHARIFF-BALIA	2	0	588	0.0	8.7	-8.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	529	0.0	7.9	-7.9
12	400 kV	BIHARSHARIFF-VARANASI	2	0	362	0.0	4.1	-4.1
13	220 kV	PUSAULI-SAHUPURI	1	12	82	0.0	0.9	-0.9
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
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	0.4	101.2	-100.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	319	778	0.0	7.1	-7.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	128	1010	0.0	9.0	-9.0
3	765 kV	JHARSUGUDA-DURG	2	0	599	0.0	9.1	-9.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	391	0.0	5.2	-5.2
5	400 kV	RANCHI-SIPAT	2	48	295	0.0	2.4	-2.4
6	220 kV	BUDHIPADAR-RAIGARH	1	12	87	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	84	26	0.9	0.0	0.9
					ER-WR	0.9	33.6	-32.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	557	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1933	0.0	43.1	-43.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2456	0.0	37.4	-37.4
4	400 kV	TALCHER-I/C	2	271	357	1.9	0.0	1.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	93.0	-93.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	2	260	0.0	2.6	-2.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	118	242	0.0	0.8	-0.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	77	0.0	0.7	-0.7
					ER-NER	0.0	4.1	-4.1
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	2014	0.0	32.1	-32.1
2	HVDC	VINDHYACHAL B/B	-	317	0	7.6	0.0	7.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	2052	0.0	34.6	-34.6
5	765 kV	GWALIOR-PHAGI	2	0	2405	0.0	40.4	-40.4
6	765 kV	JABALPUR-ORAI	2	0	578	0.0	17.6	-17.6
7	765 kV	GWALIOR-ORAI	1	1358	0	25.8	0.0	25.8
8	765 kV	SATNA-ORAI	1	0	765	0.0	16.6	-16.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1330	0	23.3	0.0	23.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	1894	0.0	34.8	-34.8
11	400 kV	ZERDA-KANKROLI	1	327	0	5.5	0.0	5.5
12	400 kV	ZERDA -BHINMAL	1	344	64	5.2	0.0	5.2
13	400 kV	VINDHYACHAL -RIHAND	1	974	0	22.4	0.0	22.4
14	400 kV	RAPP-SHUJALPUR	2	63	503	0.0	4.0	-4.0
15	220 kV	BHANPURA-RANPUR	1	93	68	0.7	0.2	0.6
16	220 kV	BHANPURA-MORAK	1	0	30	1.5	0.0	1.5
17	220 kV	MEHGAON-AURAIYA	1	122	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	90	0	1.5	0.0	1.5
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	94.4	180.3	-85.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	395	0	9.7	0.0	9.7
2	HVDC	RAIGARH-PUGALUR	2	0	606	0.0	14.4	-14.4
3	765 kV	SOLAPUR-RAICHUR	2	1468	1643	10.2	6.1	4.0
4	765 kV	WARDHA-NIZAMABAD	2	490	1764	1.2	16.4	-15.2
5	400 kV	KOLHAPUR-KUDGI	2	943	0	12.9	0.0	12.9
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	92	1.1	0.0	1.1
					WR-SR	35.1	37.0	-1.9

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)	297	0	233	5.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	563	0	529	12.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	105	97	105	2.6
	NER	132kV GELEPHU-SALAKATI	12	5	9	0.2
	NER	132kV MOTANGA-RANGIA	19	6	13	0.3
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	84	39	63	1.5
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-746	-548	-696	-16.7
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-96	0	-88	-2.1