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: 12th 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 11.11.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-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 11th 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:** **12-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)	46577	53698	35930	19071	2591	157867
Peak Shortage (MW)	200	0	0	121	0	321
Energy Met (MU)	928	1219	778	388	47	3359
Hydro Gen (MU)	128	37	138	60	15	378
Wind Gen (MU)	3	68	58	-	-	130
Solar Gen (MU)*	58.29	38.57	45.32	4.61	0.31	147
Energy Shortage (MU)	4.05	0.00	0.00	1.14	0.18	5.37
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47823	57411	38337	19645	2704	161385
Time Of Maximum Demand Met (From NLDC SCADA)	18:25	11:00	08:13	18:01	17:18	18:25

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	0.043	0.00	0.56	6.83	7.38	68.17	24.44

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	5892	0	114.0	52.1	-1.5	104	0.00
	Haryana	5747	0	116.4	78.8	0.8	201	0.00
	Rajasthan	13765	0	252.4	72.2	-0.1	196	0.00
	Delhi	3267	0	61.4	49.6	-0.8	146	0.00
	UP	15115	0	268.1	101.2	-0.5	367	0.60
	Uttarakhand	1809	0	34.5	22.0	0.6	124	0.00
	HP	1759	0	32.7	19.6	0.1	225	0.00
	J&K(UT) & Ladakh(UT)	3003	200	45.6	43.6	2.0	613	3.45
	Chandigarh	170	0	3.0	3.5	-0.5	8	0.00
WR	Chhattisgarh	3517	0	75.5	34.1	0.4	179	0.00
	Gujarat	15513	0	334.0	210.3	2.1	576	0.00
	MP	12704	0	263.8	179.1	-0.5	862	0.00
	Maharashtra	23703	0	489.2	146.6	-1.7	736	0.00
	Goa	604	0	12.4	12.5	-0.7	65	0.00
	DD	326	0	7.2	7.0	0.2	32	0.00
	DNH	830	0	19.1	19.1	0.0	43	0.00
	AMNSIL	836	0	17.6	9.1	-0.2	283	0.00
SR	Andhra Pradesh	7146	0	153.5	40.1	-0.5	322	0.00
	Telangana	8129	0	156.8	42.5	-0.3	668	0.00
	Karnataka	9356	0	172.1	39.8	-0.9	589	0.00
	Kerala	3697	0	73.6	34.6	-0.7	191	0.00
	Tamil Nadu	10698	0	215.5	114.3	-5.2	230	0.00
	Puducherry	321	0	6.2	6.8	-0.6	44	0.00
ER	Bihar	4108	0	70.3	63.2	-1.3	356	0.00
	DVC	3139	0	65.1	-31.8	-1.4	226	0.85
	Jharkhand	1444	0	28.1	22.1	-0.3	180	0.29
	Odisha	5279	0	101.0	39.1	-1.5	311	0.00
	West Bengal	6740	0	122.3	2.0	-0.1	514	0.00
	Sikkim	98	0	1.6	1.6	-0.1	21	0.00
NER	Arunachal Pradesh	124	0	2.2	2.1	0.0	35	0.00
	Assam	1613	0	27.4	20.3	0.2	118	0.00
	Manipur	197	0	2.5	2.5	0.0	26	0.18
	Meghalaya	394	0	6.4	4.6	-0.1	55	0.00
	Mizoram	113	0	1.6	1.4	-0.3	22	0.00
	Nagaland	141	0	2.4	2.0	0.1	16	0.00
	Tripura	251	0	4.1	2.6	-0.2	41	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	18.4	1.5	-19.5
Day Peak (MW)	851.0	53.0	-889.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	170.6	-59.9	42.8	-152.1	-1.5	0.0
Actual(MU)	166.7	-39.7	31.9	-164.0	-1.0	-6.0
O/D/U/D(MU)	-3.9	20.1	-10.9	-11.9	0.5	-6.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7064	16305	12312	2580	1197	39458	45
State Sector	13071	21887	9873	3683	11	48524	55
Total	20135	38191	22185	6263	1208	87982	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	506	1075	400	521	11	2514	73
Lignite	27	11	21	0	0	59	2
Hydro	128	37	139	60	15	378	11
Nuclear	27	33	64	0	0	124	4
Gas, Naptha & Diesel	16	8	9	0	26	59	2
RES (Wind, Solar, Biomass & Others)	77	107	128	5	0	317	9
Total	781	1273	761	585	52	3451	100

Share of RES in total generation (%)	9.83	8.43	16.78	0.79	0.60	9.17
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.63	13.96	43.41	10.98	28.73	23.72

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.063

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: 12-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	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	207	788	0.0	8.8	-8.8
4	765 kV	SASARAM-FATEHPUR	1	0	571	0.0	9.0	-9.0
5	765 kV	GAYA-BALIA	1	0	448	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	0	180	0.0	3.4	-3.4
7	400 kV	PUSAULI -ALLAHABAD	1	0	155	0.0	2.6	-2.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	896	0.0	12.6	-12.6
9	400 kV	PATNA-BALIA	4	0	957	0.0	14.0	-14.0
10	400 kV	BIHARSHARIFF-BALIA	2	0	575	0.0	7.5	-7.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	515	0.0	7.2	-7.2
12	400 kV	BIHARSHARIFF-VARANASI	2	71	387	0.0	3.6	-3.6
13	220 kV	PUSAULI-SAHUPURI	1	27	83	0.0	0.7	-0.7
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.1	0.0	0.1
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	0.5	83.9	-83.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	140	1013	0.0	10.2	-10.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	532	854	0.0	6.6	-6.6
3	765 kV	JHARSUGUDA-DURG	2	0	567	0.0	8.4	-8.4
4	400 kV	JHARSUGUDA-RAIGARH	4	27	537	0.0	6.6	-6.6
5	400 kV	RANCHI-SIPAT	2	141	306	0.0	2.4	-2.4
6	220 kV	BUDHIPADAR-RAIGARH	1	5	112	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	97	53	0.5	0.0	0.5
					ER-WR	0.5	35.6	-35.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	559	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1641	0.0	39.7	-39.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2240	0.0	33.1	-33.1
4	400 kV	TALCHER-I/C	2	271	0	5.0	0.0	5.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	85.4	-85.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	23	258	0.0	3.5	-3.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	443	0.0	5.8	-5.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	84	0.0	1.2	-1.2
					ER-NER	0.0	10.4	-10.4
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	1595	0.0	33.9	-33.9
2	HVDC	VINDHYACHAL B/B	-	449	0	9.0	0.0	9.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	1832	0.0	32.8	-32.8
5	765 kV	GWALIOR-PHAGI	2	0	2209	0.0	39.6	-39.6
6	765 kV	JABALPUR-ORAI	2	488	437	0.0	16.8	-16.8
7	765 kV	GWALIOR-ORAI	1	1273	0	25.9	0.0	25.9
8	765 kV	SATNA-ORAI	1	0	736	0.0	16.4	-16.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1437	0	26.4	0.0	26.4
10	765 kV	VINDHYACHAL-VARANASI	2	1474	2357	0.0	37.8	-37.8
11	400 kV	ZERDA-KANKROLI	1	323	0	5.9	0.0	5.9
12	400 kV	ZERDA -BHINMAL	1	376	0	6.6	0.0	6.6
13	400 kV	VINDHYACHAL -RIHAND	1	965	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	110	349	0.2	3.2	-3.0
15	220 kV	BHANPURA-RANPUR	1	120	116	0.7	0.4	0.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.9	0.6	0.3
17	220 kV	MEHGAON-AURAIYA	1	107	0	0.9	0.0	0.9
18	220 kV	MALANPUR-AURAIYA	1	71	0	1.6	0.0	1.6
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	100.1	181.6	-81.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	395	8	3.7	0.0	3.7
2	HVDC	RAIGARH-PUGALUR	2	0	606	0.0	14.4	-14.4
3	765 kV	SOLAPUR-RAICHUR	2	1714	954	14.6	2.1	12.5
4	765 kV	WARDHA-NIZAMABAD	2	538	1456	1.0	12.4	-11.4
5	400 kV	KOLHAPUR-KUDGI	2	1006	0	15.2	0.0	15.2
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	104	1.9	0.0	1.9
					WR-SR	36.5	28.9	7.6

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)	226	0	196	4.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	491	472	474	11.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	98	0	70	1.7
	NER	132kV GELEPHU-SALAKATI	15	7	11	0.3
	NER	132kV MOTANGA-RANGIA	21	10	15	0.4
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-39	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	92	41	65	1.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-755	-563	-708	-17.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-134	0	-106	-2.5