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 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 04.11.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04th 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:** **05-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)	36388	41143	31062	19737	2472	130802
Peak Shortage (MW)	200	0	0	0	0	200
Energy Met (MU)	820	1058	732	416	45	3071
Hydro Gen (MU)	145	25	127	73	16	386
Wind Gen (MU)	5	46	23	-	-	74
Solar Gen (MU)*	59.92	38.98	71.18	4.85	0.29	175
Energy Shortage (MU)	3.45	0.00	0.00	0.04	0.11	3.60
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	41166	48671	36805	20308	2647	144798
Time Of Maximum Demand Met (From NLDC SCADA)	08:09	07:17	09:39	17:55	17:35	07:50

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	0.053	0.00	0.25	7.49	7.74	66.00	26.26

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	4921	0	92.6	52.5	-2.1	67	0.00
	Haryana	4321	0	91.2	67.5	-1.1	112	0.00
	Rajasthan	12141	0	212.1	63.4	-3.0	306	0.00
	Delhi	2710	0	55.7	42.9	0.1	194	0.00
	UP	12994	0	267.0	103.1	-1.8	249	0.00
	Uttarakhand	1530	0	26.7	12.7	-0.5	95	0.00
	HP	1338	0	23.5	9.9	-0.2	118	0.00
	J&K(UT) & Ladakh(UT)	2620	250	48.3	43.1	-1.9	338	3.45
	Chandigarh	142	0	2.6	3.8	-1.2	0	0.00
WR	Chhattisgarh	3325	0	75.3	29.1	-0.5	223	0.00
	Gujarat	12639	0	266.5	182.6	-0.8	832	0.00
	MP	11398	0	229.1	165.5	-2.7	517	0.00
	Maharashtra	20128	0	440.5	143.2	-2.2	650	0.00
	Goa	457	0	10.6	8.1	1.9	71	0.00
	DD	270	0	4.0	3.9	0.1	24	0.00
	DNH	765	0	13.6	13.6	0.0	36	0.00
	AMNSIL	825	0	18.1	9.3	-0.2	242	0.00
SR	Andhra Pradesh	7235	0	150.1	55.1	-2.0	411	0.00
	Telangana	7587	0	151.3	34.7	-1.2	411	0.00
	Karnataka	9225	0	173.4	51.0	-2.7	740	0.00
	Kerala	3389	0	67.5	32.2	-2.7	269	0.00
	Tamil Nadu	9436	0	185.2	126.2	-8.3	440	0.00
	Puducherry	284	0	5.1	6.7	-1.6	53	0.00
ER	Bihar	4475	0	80.6	72.8	-0.8	453	0.04
	DVC	3052	0	66.7	-22.7	0.3	325	0.00
	Jharkhand	1500	0	28.8	22.8	-0.5	149	0.00
	Odisha	5559	0	117.0	64.4	-1.7	411	0.00
	West Bengal	6650	0	121.6	-1.2	1.6	547	0.00
	Sikkim	78	0	1.1	1.3	-0.2	44	0.00
NER	Arunachal Pradesh	119	0	2.3	2.2	0.0	43	0.00
	Assam	1538	0	26.0	19.0	-0.1	107	0.00
	Manipur	189	0	2.7	2.6	0.0	25	0.11
	Meghalaya	368	0	5.9	4.3	-0.1	51	0.00
	Mizoram	115	0	1.7	1.4	-0.2	7	0.00
	Nagaland	139	0	2.5	2.1	0.1	10	0.00
	Tripura	239	0	3.9	2.7	-0.6	45	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	23.5	1.5	-17.7
Day Peak (MW)	1134.0	81.0	-846.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	137.4	-59.3	42.3	-114.8	-5.6	0.1
Actual(MU)	129.8	-42.9	22.7	-104.2	-6.5	-1.1
O/D/U/D(MU)	-7.6	16.4	-19.6	10.6	-0.9	-1.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7438	17955	8992	1320	534	36238	40
State Sector	16316	22528	11591	4435	11	54881	60
Total	23754	40483	20583	5755	545	91119	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	415	952	374	463	10	2215	70
Lignite	29	10	32	0	0	70	2
Hydro	145	25	127	73	16	386	12
Nuclear	32	33	68	0	0	134	4
Gas, Naptha & Diesel	16	10	9	0	29	64	2
RES (Wind, Solar, Biomass & Others)	76	85	118	5	0	284	9
Total	713	1116	727	541	56	3154	100

Share of RES in total generation (%)	10.64	7.66	16.16	0.89	0.52	9.01
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.47	12.90	42.99	14.44	28.96	25.49

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.061

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-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	500	0.0	12.5	-12.5
2	HVDC	PUSAULI B/B	-	0	248	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	454	632	0.7	0.0	0.7
4	765 kV	SASARAM-FATEHPUR	1	65	496	0.0	3.1	-3.1
5	765 kV	GAYA-BALIA	1	0	434	0.0	6.6	-6.6
6	400 kV	PUSAULI-VARANASI	1	0	184	0.0	3.3	-3.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	158	0.0	2.5	-2.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	785	0.0	9.1	-9.1
9	400 kV	PATNA-BALIA	4	0	706	0.0	7.6	-7.6
10	400 kV	BIHARSHARIFF-BALIA	2	0	547	0.0	5.2	-5.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	433	0.0	4.7	-4.7
12	400 kV	BIHARSHARIFF-VARANASI	2	137	349	0.0	0.8	-0.8
13	220 kV	PUSAULI-SAHUPURI	1	27	67	0.0	0.3	-0.3
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	1.1	61.6	-60.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	667	448	0.0	0.5	-0.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	649	583	5.3	0.0	5.3
3	765 kV	JHARSUGUDA-DURG	2	60	269	0.0	2.4	-2.4
4	400 kV	JHARSUGUDA-RAIGARH	4	244	372	0.0	1.1	-1.1
5	400 kV	RANCHI-SIPAT	2	195	187	1.6	0.0	1.6
6	220 kV	BUDHIPADAR-RAIGARH	1	61	67	0.1	0.0	0.1
7	220 kV	BUDHIPADAR-KORBA	2	167	0	2.5	0.0	2.5
					ER-WR	9.4	4.0	5.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	557	0.0	10.1	-10.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1646	0.0	36.3	-36.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2471	0.0	37.4	-37.4
4	400 kV	TALCHER-I/C	2	695	648	0.0	0.8	-0.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	83.8	-83.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	265	0.0	3.1	-3.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	12	254	0.0	2.0	-2.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	70	0.0	0.9	-0.9
					ER-NER	0.0	6.0	-6.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	13.0	-13.0
					NER-NR	0.0	13.0	-13.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	507	0.0	12.0	-12.0
2	HVDC	VINDHYACHAL B/B	-	449	200	8.4	0.6	7.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	1738	0.0	28.4	-28.4
5	765 kV	GWALIOR-PHAGI	2	0	2408	0.0	30.5	-30.5
6	765 kV	JABALPUR-ORAI	2	0	545	0.0	16.0	-16.0
7	765 kV	GWALIOR-ORAI	1	1343	0	21.0	0.0	21.0
8	765 kV	SATNA-ORAI	1	0	761	0.0	14.6	-14.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1306	0	23.4	0.0	23.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2558	0.0	49.0	-49.0
11	400 kV	ZERDA-KANKROLI	1	317	0	5.6	0.0	5.6
12	400 kV	ZERDA -BHINMAL	1	401	0	6.6	0.0	6.6
13	400 kV	VINDHYACHAL -RIHAND	1	972	0	20.8	0.0	20.8
14	400 kV	RAPP-SHUJALPUR	2	152	371	0.0	0.4	-0.4
15	220 kV	BHANPURA-RANPUR	1	74	26	0.6	0.1	0.6
16	220 kV	BHANPURA-MORAK	1	0	30	1.4	0.0	1.4
17	220 kV	MEHGAON-AURAIYA	1	108	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	72	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	90.1	151.6	-61.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	791	0	11.9	0.0	11.9
2	HVDC	RAIGARH-PUGALUR	2	580	0	13.8	0.0	13.8
3	765 kV	SOLAPUR-RAICHUR	2	1606	1429	1.1	0.0	1.1
4	765 kV	WARDHA-NIZAMABAD	2	109	1939	0.0	21.4	-21.4
5	400 kV	KOLHAPUR-KUDGI	2	1269	0	17.4	0.0	17.4
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	81	1.3	0.0	1.3
					WR-SR	45.5	21.4	24.1

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)	289	0	266	6.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	627	0	565	13.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	183	0	121	2.9
	NER	132kV GELEPHU-SALAKATI	15	9	13	0.3
	NER	132kV MOTANGA-RANGIA	20	8	15	0.4
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	81	28	62	1.5
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-736	-444	-640	-15.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-110	0	-96	-2.3