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: 16th November 2022

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 15.11.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-नवंबर-2022 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 15th November 2022, 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:** **16-Nov-2022**

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)	47186	56103	40975	19369	2570	166203
Peak Shortage (MW)	90	0	0	0	0	90
Energy Met (MU)	1032	1380	917	392	46	3767
Hydro Gen (MU)	146	47	117	53	16	379
Wind Gen (MU)	27	29	16	-	-	73
Solar Gen (MU)*	89.71	49.11	96.86	4.85	0.83	241
Energy Shortage (MU)	1.60	0.00	0.00	0.94	0.00	2.54
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50329	65225	43880	20451	2730	176956
Time Of Maximum Demand Met (From NLDC SCADA)	10:00	10:55	10:30	18:15	17:21	10:15

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	0.044	0.00	1.23	7.90	9.13	74.73	16.14

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	6218	0	120.8	35.1	-0.5	76	0.00
	Haryana	6439	0	128.2	71.3	0.8	230	0.00
	Rajasthan	15047	0	292.9	99.7	2.0	343	1.05
	Delhi	3525	0	68.3	60.8	-1.1	158	0.00
	UP	15552	0	295.7	65.1	0.9	573	0.05
	Uttarakhand	1940	0	36.4	24.0	0.5	168	0.07
	HP	1856	0	32.3	19.7	0.2	102	0.00
	J&K(UT) & Ladakh(UT)	2431	0	53.7	46.9	0.0	120	0.43
	Chandigarh	254	0	3.4	3.5	-0.1	85	0.00
WR	Chhattisgarh	3914	0	85.5	31.6	-0.4	357	0.00
	Gujarat	19448	0	401.6	241.7	1.7	732	0.00
	MP	14915	0	299.4	191.4	-2.7	587	0.00
	Maharashtra	25573	0	536.0	178.2	0.9	737	0.00
	Goa	651	0	13.1	13.3	-0.2	63	0.00
	DNHDDPDCL	1184	0	27.1	27.1	0.0	56	0.00
	AMNSIL	811	0	17.6	11.3	-0.3	276	0.00
SR	Andhra Pradesh	8747	0	181.8	81.2	0.2	408	0.00
	Telangana	9149	0	169.8	56.1	0.5	589	0.00
	Karnataka	11062	0	209.5	76.7	0.2	889	0.00
	Kerala	3774	0	75.1	49.0	0.6	289	0.00
	Tamil Nadu	13752	0	271.3	163.8	1.3	677	0.00
	Puducherry	384	0	9.2	8.0	0.5	10	0.00
ER	Bihar	4461	0	77.8	66.0	0.3	219	0.00
	DVC	3316	0	69.8	-40.2	-0.4	479	0.00
	Jharkhand	1563	0	29.3	20.0	0.1	289	0.94
	Odisha	4703	0	90.9	31.6	-1.9	472	0.00
	West Bengal	6709	0	122.5	-13.3	-0.1	294	0.00
	Sikkim	111	0	1.8	1.2	0.6	77	0.00
NER	Arunachal Pradesh	137	0	2.3	2.0	0.0	53	0.00
	Assam	1546	0	26.8	19.6	0.3	115	0.00
	Manipur	215	0	2.8	2.8	0.1	37	0.00
	Meghalaya	364	0	6.7	5.1	0.0	45	0.00
	Mizoram	128	0	1.5	1.7	-0.5	25	0.00
	Nagaland	144	0	2.1	1.7	0.0	25	0.00
	Tripura	234	0	3.8	2.7	-0.2	34	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.7	5.2	-23.5
Day Peak (MW)	402.0	261.8	-1041.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	131.0	-9.4	88.7	-209.0	-1.3	0.0
Actual(MU)	117.2	-10.0	95.6	-205.4	-2.4	-5.0
O/D/U/D(MU)	-13.8	-0.6	6.8	3.7	-1.1	-5.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7307	14926	7458	2630	584	32904	49
State Sector	9480	14275	9178	1800	142	34874	51
Total	16787	29200	16636	4430	725	67778	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	646	1239	476	569	6	2937	74
Lignite	31	16	42	0	0	88	2
Hydro	140	47	117	53	16	373	9
Nuclear	26	36	70	0	0	132	3
Gas, Naptha & Diesel	16	5	3	0	31	55	1
RES (Wind, Solar, Biomass & Others)	124	80	161	5	1	370	9
Total	982	1423	870	627	54	3956	100

Share of RES in total generation (%)	12.60	5.59	18.48	0.77	1.53	9.35
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.51	11.42	40.03	9.22	31.77	22.13

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.075

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: 16-Nov-2022

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	346	0.0	8.6	-8.6
3	765 kV	GAYA-VARANASI	2	0	771	0.0	14.3	-14.3
4	765 kV	SASARAM-FATEHPUR	1	0	458	0.0	8.9	-8.9
5	765 kV	GAYA-BALIA	1	0	492	0.0	9.8	-9.8
6	400 kV	PUSAULI-VARANASI	1	0	225	0.0	4.5	-4.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	201	0.0	3.8	-3.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	710	0.0	13.3	-13.3
9	400 kV	PATNA-BALIA	2	0	634	0.0	13.2	-13.2
10	400 kV	NAUBATPUR-BALIA	2	0	690	0.0	13.3	-13.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	420	0.0	7.8	-7.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	474	0.0	9.8	-9.8
13	400 kV	BIHARSHARIFF-VARANASI	2	0	324	0.0	5.7	-5.7
14	220 kV	SAHUPURI-KARAMNASA	1	20	94	0.0	0.9	-0.9
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.6	0.0	0.6
17	132 kV	KARMANASA-SAHUPURI	1	0	18	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.6	113.9	-113.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1085	247	13.5	0.0	13.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	73	884	0.0	9.2	-9.2
3	765 kV	JHARSUGUDA-DURG	2	0	532	0.0	8.1	-8.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	523	0.0	6.2	-6.2
5	400 kV	RANCHI-SIPAT	2	37	327	0.0	3.1	-3.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	138	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	92	44	0.5	0.0	0.5
					ER-WR	14.0	28.7	-14.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	550	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1991	0.0	42.4	-42.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2962	0.0	50.0	-50.0
4	400 kV	TALCHER-I/C	2	0	626	0.0	8.7	-8.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	104.9	-104.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	338	0.0	5.8	-5.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	464	0.0	8.0	-8.0
3	220 kV	ALIPURDUAR-SALAKATI	2	2	36	0.0	0.6	-0.6
					ER-NER	0.0	14.4	-14.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	701	0.0	16.9	-16.9
					NER-NR	0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	799	0.0	5.5	-5.5
2	HVDC	VINDHYACHAL B/B	-	266	0	6.7	0.0	6.7
3	HVDC	MUNDRA-MOHINDERGARH	2	1444	0	29.8	0.0	29.8
4	765 kV	GWALIOR-AGRA	2	191	1280	0.1	15.2	-15.1
5	765 kV	GWALIOR-PHAGI	2	0	1854	0.0	35.2	-35.2
6	765 kV	JABALPUR-ORAI	2	0	645	0.0	21.4	-21.4
7	765 kV	GWALIOR-ORAI	1	947	0	18.8	0.0	18.8
8	765 kV	SATNA-ORAI	1	0	875	0.0	18.2	-18.2
9	765 kV	BANASKANTHA-CHITORGARH	2	2113	0	31.0	0.0	31.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	1638	0.0	24.2	-24.2
11	400 kV	ZERDA-KANKROLI	1	335	0	4.9	0.0	4.9
12	400 kV	ZERDA -BHINMAL	1	520	4	6.6	0.0	6.6
13	400 kV	VINDHYACHAL -RIHAND	1	978	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	378	254	2.3	1.2	1.0
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
17	220 kV	MEHGAON-AURAIYA	1	168	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	134	0	2.2	0.0	2.2
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	125.9	122.9	3.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	297	0	7.2	0.0	7.2
2	HVDC	RAIGARH-PUGALUR	2	0	1999	0.0	22.7	-22.7
3	765 kV	SOLAPUR-RAICHUR	2	926	1614	3.8	7.1	-3.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2476	0.0	31.7	-31.7
5	400 kV	KOLHAPUR-KUDGI	2	1192	0	20.6	0.0	20.6
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	122	2.3	0.0	2.3
					WR-SR	33.9	61.5	-27.6

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)	84	0	55	1.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	317	296	306	7.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.5
	NER	132kV GELEPHU-SALAKATI	-7	0	-4	-0.1
	NER	132kV MOTANGA-RANGIA	-32	-8	-14	-0.3
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-28	0	-1	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	-4	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	294	97	219	5.3
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-923	-726	-875	-21.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-118	0	-103	-2.5