



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पावर 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: 19th 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., डोंगतेह, 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 18.11.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-नवंबर-2022 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध 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 18th 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: 19-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)	47604	55482	41365	19715	2606	166772
Peak Shortage (MW)	0	0	0	623	0	623
Energy Met (MU)	1049	1371	946	393	46	3805
Hydro Gen (MU)	166	34	103	45	16	363
Wind Gen (MU)	2	27	24	-	-	53
Solar Gen (MU)*	98.60	52.96	110.26	5.04	0.87	268
Energy Shortage (MU)	3.46	0.00	0.00	6.12	0.00	9.58
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51526	64615	46658	20120	2644	180411
Time Of Maximum Demand Met (From NLDC SCADA)	11:40	10:45	09:27	18:00	17:55	11:42

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	0.032	0.00	0.00	5.34	5.34	75.79	18.88

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	6698	0	124.6	36.0	-0.8	61	0.00
	Haryana	6800	0	131.3	67.6	0.1	188	0.00
	Rajasthan	15467	0	297.7	122.4	1.1	404	0.00
	Delhi	3717	0	66.7	60.3	-1.2	136	0.00
	UP	16531	0	298.7	66.4	3.5	344	2.73
	Uttarakhand	2041	0	37.0	23.8	0.7	145	0.48
	HP	1894	0	33.4	21.8	0.2	62	0.00
	J&K(UT) & Ladakh(UT)	2577	0	55.9	49.9	-0.4	120	0.25
WR	Chhattisgarh	201	0	3.3	3.4	-0.1	27	0.00
	Goa	3961	0	85.7	32.6	-0.6	141	0.00
	Gujarat	19395	0	401.5	241.3	-0.5	540	0.00
	MP	15109	0	305.1	187.8	-2.8	576	0.00
	Maharashtra	24887	0	522.3	166.4	1.0	1158	0.00
	AMNSIL	829	0	17.5	10.1	1.0	289	0.00
SR	Andhra Pradesh	9227	0	184.2	83.7	0.7	643	0.00
	Telangana	9399	0	168.5	59.1	1.4	521	0.00
	Karnataka	12059	0	216.0	75.0	-0.4	664	0.00
	Kerala	3778	0	76.1	53.4	0.6	191	0.00
	Tamil Nadu	14169	0	292.7	177.3	-0.1	675	0.00
	Puducherry	385	0	8.5	7.9	-0.1	36	0.00
ER	Bihar	4605	0	79.1	66.3	0.5	370	0.00
	DVC	3309	0	69.7	-42.2	0.2	521	0.00
	Jharkhand	1385	253	26.4	16.3	1.2	301	6.12
	Odisha	4838	0	91.8	24.4	-1.5	313	0.00
	West Bengal	6521	0	123.8	-12.4	-0.4	537	0.00
NER	Sikkim	117	0	1.8	1.4	0.4	43	0.00
	Arunachal Pradesh	131	0	2.2	2.0	0.1	36	0.00
	Assam	1506	0	26.6	19.8	-0.1	88	0.00
	Manipur	216	0	2.9	3.0	-0.1	33	0.00
	Meghalaya	381	0	6.5	4.9	0.1	44	0.00
	Mizoram	127	0	2.0	1.7	0.0	15	0.00
	Nagaland	146	0	2.2	1.8	0.1	33	0.00
	Tripura	230	0	3.8	2.5	-0.2	29	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.2	5.0	-17.1
Day Peak (MW)	418.0	309.0	-1028.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	149.4	-25.5	92.0	-210.6	-5.2	0.0
Actual(MU)	151.9	-33.7	103.4	-216.7	-6.5	-1.7
O/D/U/D(MU)	2.5	-8.1	11.4	-6.2	-1.3	-1.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7307	14026	7248	3590	584	32754	50
State Sector	8890	13258	8258	1950	142	32497	50
Total	16197	27284	15506	5540	725	65251	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	611	1258	477	577	11	2933	74
Lignite	31	15	45	0	0	91	2
Hydro	170	34	103	45	16	367	9
Nuclear	25	36	70	0	0	132	3
Gas, Naptha & Diesel	13	5	3	0	30	51	1
RES (Wind, Solar, Biomass & Others)	129	81	184	5	1	400	10
Total	979	1428	883	627	58	3974	100
Share of RES in total generation (%)	13.22	5.64	20.89	0.80	1.50	10.07	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.14	10.53	40.47	8.00	28.38	22.61	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.078

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: 19-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	2	2	345	0.0	8.1	-8.1	
3	765 kV	GAYALYARANASI	2	0	864	0.0	13.1	-13.1	
4	765 kV	SASARAM-FATEHPUR	1	0	662	0.0	12.1	-12.1	
5	765 kV	GAYA-BALIA	1	0	649	0.0	11.6	-11.6	
6	400 kV	PUSAULI-VARANASI	1	36	200	0.0	4.0	-4.0	
7	400 kV	PUSAULI-ALLAHABAD	1	0	197	0.0	3.9	-3.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	754	0.0	12.4	-12.4	
9	400 kV	PATNA-BALIA	2	0	731	0.0	14.1	-14.1	
10	400 kV	NAUBATPUR-BALIA	2	0	685	0.0	14.2	-14.2	
11	400 kV	BIHARSHARIFF-BALIA	2	0	553	0.0	9.2	-9.2	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	681	0.0	11.2	-11.2	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	455	0.0	7.5	-7.5	
14	220 kV	SINPUR-BIKRAMNASHA	1	7	131	0.0	1.6	-1.6	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	123.0	-122.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	499	394	2.5	0.0	2.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1033	0.0	11.7	-11.7	
3	765 kV	JHARSUGUDA-DURG	2	0	620	0.0	10.5	-10.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	492	0.0	5.0	-5.0	
5	400 kV	RANCHI-SIPAT	2	0	353	0.0	3.8	-3.8	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	145	0.0	1.7	-1.7	
7	220 kV	BUDHIPADAR-KORBA	2	101	70	0.7	0.0	0.7	
						ER-WR	3.2	32.6	-29.4
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	1643	0.0	39.6	-39.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2819	0.0	49.2	-49.2	
4	400 kV	TALCHER-T/C	2	0	294	0.0	5.9	-5.9	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	101.4	-101.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	32	163	0.0	2.3	-2.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	33	213	0.0	2.7	-2.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	9	46	0.0	0.1	-0.1	
						ER-NER	0.0	5.0	-5.0
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	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	6	3292	0.0	32.0	-32.0	
2	HVDC	VINDHYACHAL B/B	-	435	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	1445	0	33.2	0.0	33.2	
4	765 kV	GWALIOR-AGRA	2	268	1074	0.2	14.5	-14.3	
5	765 kV	GWALIOR-PHAGI	2	0	2199	0.0	38.5	-38.5	
6	765 kV	JABALPUR-ORAI	2	0	731	0.0	24.1	-24.1	
7	765 kV	GWALIOR-ORAI	1	985	0	18.6	0.0	18.6	
8	765 kV	SATNA-ORAI	1	0	880	0.0	18.2	-18.2	
9	765 kV	BANASKANTHA-CHITORGARH	2	1825	0	31.0	0.0	31.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1544	0.0	23.4	-23.4	
11	400 kV	ZERDA-KANKROLI	1	273	0	4.3	0.0	4.3	
12	400 kV	ZERDA-JBHINMAL	1	457	59	4.0	0.0	4.0	
13	400 kV	VINDHYACHAL-RIHAND	1	975	0	21.8	0.0	21.8	
14	400 kV	RAPP-SHULIAPUR	2	285	318	1.4	2.7	-1.3	
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	120	0	1.3	0.0	1.3	
18	220 kV	MALANPUR-AURAIYA	1	92	0	1.8	0.0	1.8	
19	132 kV	GWALIOR-SAWAIMADHOPUR	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	129.6	155.3	-25.7
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	293	0	7.2	0.0	7.2	
2	HVDC	RAIGARH-PUGALUR	2	0	1001	0.0	24.3	-24.3	
3	765 kV	SOLAPUR-RAICHUR	2	842	1590	2.0	11.7	-9.7	
4	765 kV	WARDHA-NIZAMABAD	2	0	2486	0.0	33.3	-33.3	
5	400 kV	KOLHAPUR-KUDCI	2	1339	0	20.2	0.0	20.2	
6	220 kV	KOLHAPUR-CHIKODI	1	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	113	2.2	0.0	2.2	
						WR-SR	31.6	69.2	-37.6
INTERNATIONAL EXCHANGES									
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)			
BHUTAN	ER	400KV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	18	0	18	1.1			
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	283	0	282	6.8			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	0.0			
	NER	132KV GELEPHU-SALAKATI	5	-1	0	0.0			
NEPAL	NER	132KV MOTANGA-RANGIA	17	4	10	0.2			
	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0			
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	309	145	209	5.0			
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-923	-529	-622	-14.9			
BANGLADESH	NER	132KV COMILLA-SURAJMANJANAGAR 1&2	-105	0	-93	-2.2			