



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: 21st 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 20.11.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-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 20th 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

21-Nov-2022

A. Power Supply Position at All India

	NR	WR	SR	ER	NER	TOTAL
Demand met during evening peak hrs(MW)	44757	52815	36160	17533	2385	153650
Peak Shortage (MW)	150	0	0	567	0	717
Energy Met (MU)	1010	1319	868	381	44	3621
Hydro Gen (MU)	132	26	68	38	14	279
Wind Gen (MU)	9	41	18	-	-	69
Solar Gen (MU)*	101.23	52.54	107.60	4.88	0.85	267
Energy Shortage (MU)	1.38	0.00	0.00	5.30	0.00	6.68
Maximum Demand met During the Day	51161	63164	43529	17876	2533	175226
Time Of Maximum Demand Met (From	10:49	10:46	09:32	18:16	17:54	10:57

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	0.08	3.15	3.23	66.16	30.61

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	6350	0	119.8	40.6	-0.5	108	0.00
	Haryana	6081	0	118.1	60.2	-0.5	205	0.00
	Rajasthan	15432	0	290.8	103.6	0.9	288	0.00
	Delhi	3554	0	60.6	54.2	-1.3	99	0.00
	UP	15769	0	295.1	73.6	0.2	487	0.24
	Uttarakhand	2001	0	35.5	22.3	1.5	230	0.03
	HP	1712	0	30.8	19.6	0.2	79	0.00
	J&K(UT) & Chandigarh	2544	140	56.1	49.2	-0.7	82	1.11
	Chhattisgarh	175	0	3.0	3.3	-0.3	14	0.00
	MP	3813	0	83.4	30.5	-0.7	267	0.00
WR	Gujarat	18499	0	379.9	229.2	-0.4	373	0.00
	MP	15405	0	304.2	187.8	-2.4	488	0.00
	Maharashtra	23957	0	498.6	162.8	0.4	1010	0.00
	Goa	552	0	10.4	10.9	-1.1	63	0.00
	DNHDDPDCL	1093	0	25.3	25.2	0.1	92	0.00
	AMNSIL	760	0	16.8	10.3	0.2	246	0.00
	Andhra Pradesh	9476	0	180.9	78.9	0.5	725	0.00
	Telangana	8380	0	156.1	50.1	-0.2	310	0.00
	Karnataka	11057	0	199.0	68.4	0.6	693	0.00
	Kerala	3396	0	67.6	50.2	0.4	229	0.00
SR	Tamil Nadu	11879	0	256.4	141.3	0.4	431	0.00
	Puducherry	333	0	7.8	7.3	-0.3	39	0.00
	Bihar	4143	0	76.7	66.1	-0.7	277	0.55
	DVC	3216	0	68.4	-39.7	-0.1	502	0.00
	Jharkhand	1452	0	27.4	18.0	0.5	403	4.75
	Odisha	4783	0	95.1	25.5	-2.0	427	0.00
	West Bengal	5506	0	111.7	-18.7	0.1	350	0.00
	Sikkim	84	0	1.3	1.3	0.1	33	0.00
	Arunachal Pradesh	132	0	2.2	2.0	0.0	38	0.00
	Assam	1434	0	24.5	17.9	-0.4	90	0.00
NER	Manipur	207	0	2.9	2.9	0.0	27	0.00
	Meghalaya	330	0	6.4	4.9	0.4	64	0.00
	Mizoram	111	0	1.8	1.7	-0.2	5	0.00
	Nagaland	134	0	2.1	1.8	-0.1	31	0.00
	Tripura	223	0	3.8	2.5	0.0	24	0.00

D. Transnational Exchanges (MU) -

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.5	9.6	-21.1
Day Peak (MW)	348.0	396.0	-1036.0

E. Import/Export by Regions (in MU) -

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	138.3	-17.8	82.7	-198.3	-4.8	0.0
Actual(MU)	128.1	-14.2	85.8	-197.9	-5.9	-4.2
OD/UD(MU)	-10.2	3.7	3.1	0.4	-1.1	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7307	12706	8448	2640	924	32024	48
State Sector	10490	14545	7248	1810	142	34234	52
Total	17797	27250	15696	4450	1065	66258	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	623	1192	460	547	10	2832	75
Lignite	26	14	44	0	0	83	2
Hydro	132	26	68	38	14	279	7
Nuclear	26	36	71	0	0	133	4
Gas, Naptha & Diesel	12	2	4	0	30	48	1
RES (Wind, Solar, Biomass & Others)	129	95	177	5	1	406	11
Total	948	1365	824	590	55	3782	100

Share of RES in total generation (%)	13.60	6.94	21.50	0.82	1.53	10.75
Share of non-fossil fuel (hydro, nuclear and RES) in total generation (%)	30.34	11.51	38.38	7.24	27.66	21.65

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.050

*Source: RLDCs for solar connected to Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 21-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	8.0	-8.0	
3	765 kV	GAYALYARANASI	2	0	849	0.0	14.3	-14.3	
4	765 kV	SASARAM-FATEHPUR	1	0	531	0.0	9.3	-9.3	
5	765 kV	GAYA-BALIA	1	0	524	0.0	10.5	-10.5	
6	400 kV	PUSAULI-VARANASI	1	0	200	0.0	4.0	-4.0	
7	400 kV	PUSAULI-ALLAHABAD	1	0	210	0.0	3.9	-3.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	802	0.0	14.2	-14.2	
9	400 kV	PATNA-BALIA	2	0	526	0.0	10.8	-10.8	
10	400 kV	NAUBATPUR-BALIA	2	0	551	0.0	10.6	-10.6	
11	400 kV	BIHARSHARIFF-BALIA	2	0	410	0.0	7.4	-7.4	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	438	0.0	8.6	-8.6	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	350	0.0	6.3	-6.3	
14	220 kV	SINPUR-BIKRAMNASHA	1	0	103	0.0	0.7	-0.7	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4	
17	132 kV	KARMANASA-SAHUPURI	1	0	16	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	108.4	-108.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	592	388	0.0	2.2	-2.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	227	654	0.0	2.6	-2.6	
3	765 kV	JHARSUGUDA-DURG	2	0	469	0.0	8.9	-8.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	497	0.0	6.2	-6.2	
5	400 kV	RANCHI-SIPAT	2	72	271	0.0	1.7	-1.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	123	0.0	1.8	-1.8	
7	220 kV	BUDHIPADAR-KORBA	2	80	47	0.3	0.0	0.3	
						ER-WR	0.3	23.5	-23.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	549	0.0	12.5	-12.5	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1984	0.0	44.4	-44.4	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2599	0.0	44.4	-44.4	
4	400 kV	TALCHER-T/C	2	0	680	0.0	17.1	-17.1	
5	220 kV	BALMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	101.3	-101.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	215	0.0	2.7	-2.7	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	9	274	0.0	2.9	-2.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	9	27	0.0	0.1	-0.1	
						ER-NER	0.0	5.6	-5.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	12.0	-12.0	
						NER-NR	0.0	12.0	-12.0
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	351	0.0	8.5	-8.5	
2	HVDC	VINDHYACHAL B/B	-	432	0	12.1	0.0	12.1	
3	HVDC	MUNDRA-MOHENDERGARH	2	976	0	16.2	0.0	16.2	
4	765 kV	GWALIOR-AGRA	2	287	1578	0.0	19.2	-19.2	
5	765 kV	GWALIOR-PHAGI	2	0	2006	0.0	36.3	-36.3	
6	765 kV	JABALPUR-ORAI	2	0	683	0.0	24.4	-24.4	
7	765 kV	GWALIOR-ORAI	1	1066	0	19.1	0.0	19.1	
8	765 kV	SATNA-ORAI	1	0	829	0.0	17.1	-17.1	
9	765 kV	BANASKANTHA-CHITTOORGARH	2	2154	0	33.9	0.0	33.9	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1817	0.0	27.0	-27.0	
11	400 kV	ZERDA-KANKROLI	1	330	0	4.8	0.0	4.8	
12	400 kV	ZERDA-BHINMAL	1	420	59	4.9	0.0	4.9	
13	400 kV	VINDHYACHAL-RIHAND	1	960	0	21.8	0.0	21.8	
14	400 kV	RAPP-SHULIAPUR	2	269	291	0.0	0.2	-0.2	
15	220 kV	BHANUPUR-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANUPUR-MORAK	1	0	30	0.0	1.8	-1.8	
17	220 kV	MEHGAON-AURAIYA	1	126	0	1.2	0.0	1.2	
18	220 kV	MALANPUR-AURAIYA	1	96	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	115.8	134.5	-18.7
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	307	562	0.9	10.5	-9.6	
2	HVDC	RAIGARH-PUGALUR	2	0	605	0.0	5.9	-5.9	
3	765 kV	SOLAPUR-RAICHUR	2	1589	1624	0.0	2.8	-2.8	
4	765 kV	WARDHA-NIZAMABAD	2	14	1970	0.0	22.2	-22.2	
5	400 kV	KOLHAPUR-KUDCI	2	1307	0	19.7	0.0	19.7	
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	105	2.0	0.0	2.0	
						WR-SR	22.6	41.4	-18.8
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)	75	0	40	1.0			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	275	0	267	6.4			
	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	0	0	0.0			
	NER	132KV MOTANGA-RANGIA	-28	0	-8	-0.2			
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0			
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0			
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	396	340	396	9.6			
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-912	-625	-773	-18.6			
	NER	132KV COMILLA-SURAJMANNAGAR 1&2	-124	0	-105	-2.5			