



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: 29th 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 28.11.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28th 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: 29-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)	47915	56514	41611	19223	2562	167825
Peak Shortage (MW)	0	0	0	599	0	599
Energy Met (MU)	1058	1379	948	390	45	3821
Hydro Gen (MU)	133	37	107	37	14	328
Wind Gen (MU)	9	25	10	-	-	45
Solar Gen (MU)*	104.49	51.64	87.93	5.08	1.03	250
Energy Shortage (MU)	1.24	0.00	0.00	4.90	0.00	6.14
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53852	66630	47227	19645	2626	186714
Time Of Maximum Demand Met (From NLDC SCADA)	11:15	10:54	10:38	17:50	17:18	10:54

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	0.040	0.00	0.73	9.25	9.98	78.94	11.09

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	7072	0	134.2	42.9	-1.4	19	0.00
	Haryana	7076	0	129.7	62.4	-0.4	157	0.00
	Rajasthan	15830	0	301.3	106.7	1.9	297	0.73
	Delhi	3581	0	65.0	58.1	-1.4	151	0.00
	UP	16022	0	298.6	73.7	0.6	368	0.00
	Uttarakhand	1982	0	36.7	24.5	0.6	155	0.15
	HP	1914	0	33.1	22.5	-0.1	86	0.00
	J&K(UT) & Ladakh(UT)	2547	0	56.5	51.4	-0.3	285	0.36
	Chandigarh	196	0	3.3	3.2	0.0	24	0.00
	WR	Chhattisgarh	4012	0	86.1	35.4	-0.4	348
Gujarat		19424	0	392.4	254.3	-1.5	721	0.00
MP		15680	0	305.6	191.9	-0.8	561	0.00
Maharashtra		25927	0	538.8	171.6	-1.9	767	0.00
Goa		636	0	12.1	12.7	-1.2	79	0.00
DNHDDPDCL		1192	0	26.9	26.9	0.0	47	0.00
AMNSIL		774	0	17.5	11.1	0.0	258	0.00
SR	Andhra Pradesh	9088	0	183.8	73.6	0.7	855	0.00
	Telangana	9530	0	170.8	52.3	0.0	484	0.00
	Karnataka	11835	0	211.6	74.0	0.7	595	0.00
	Kerala	3872	0	74.7	53.6	0.5	186	0.00
	Tamil Nadu	14502	0	298.3	181.6	3.0	806	0.00
	Puducherry	381	0	8.4	8.0	-0.3	68	0.00
ER	Bihar	4399	162	77.0	66.4	-0.9	210	0.05
	DVC	3253	0	68.0	-41.8	-1.5	284	0.00
	Jharkhand	1459	133	27.3	17.8	0.3	352	4.85
	Odisha	5064	0	98.9	29.5	-1.6	309	0.00
	West Bengal	6463	0	117.4	-11.6	-1.4	255	0.00
NER	Sikkim	116	0	1.7	1.4	0.3	74	0.00
	Arunachal Pradesh	131	0	2.2	2.0	0.0	24	0.00
	Assam	1495	0	25.3	18.3	0.0	121	0.00
	Manipur	194	0	2.9	3.0	-0.1	17	0.00
	Meghalaya	374	0	7.0	5.2	0.2	36	0.00
	Mizoram	129	0	1.9	1.5	-0.2	10	0.00
	Nagaland	159	0	2.3	2.0	0.1	39	0.00
	Tripura	233	0	3.9	2.6	-0.1	16	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.5	3.0	-22.9
Day Peak (MW)	260.7	287.0	-1046.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	140.1	-39.0	99.3	-196.4	-4.0	0.0
Actual(MU)	129.6	-49.0	119.5	-200.3	-4.5	-4.7
O/D/U/D(MU)	-10.5	-10.0	20.2	-3.9	-0.5	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7217	12306	7728	3340	584	31174	48
State Sector	8495	14885	7650	2020	142	33191	52
Total	15712	27190	15378	5360	725	64365	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	671	1292	511	566	11	3051	76
Lignite	31	15	37	0	0	82	2
Hydro	134	37	107	37	14	329	8
Nuclear	26	36	59	0	0	121	3
Gas, Naptha & Diesel	11	6	6	0	31	53	1
RES (Wind, Solar, Biomass & Others)	132	78	144	5	1	361	9
Total	1006	1463	863	608	56	3996	100
Share of RES in total generation (%)	13.16	5.33	16.69	0.83	1.84	9.02	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.13	10.28	35.91	6.92	26.22	20.28	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.053

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: 29-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	0	346	0.0	8.5	-8.5	
3	765 kV	GAYALYARANASI	2	0	744	0.0	11.8	-11.8	
4	765 kV	SASARAM-FATEHPUR	1	0	560	0.0	3.7	-3.7	
5	765 kV	GAYA-BALIA	1	0	570	0.0	11.2	-11.2	
6	400 kV	PUSAULI-VARANASI	1	0	224	0.0	4.6	-4.6	
7	400 kV	PUSAULI-ALLAHABAD	1	0	189	0.0	3.8	-3.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	789	0.0	12.2	-12.2	
9	400 kV	PATNA-BALIA	2	0	703	0.0	13.9	-13.9	
10	400 kV	NAUBATPUR-BALIA	2	0	620	0.0	10.4	-10.4	
11	400 kV	BIHARSHARIFF-BALIA	2	0	565	0.0	8.6	-8.6	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	521	0.0	8.3	-8.3	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	390	0.0	5.7	-5.7	
14	220 kV	SINPUR-BIKRAMNASHA	1	0	152	0.0	1.7	-1.7	
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	38	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	104.4	-104.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	267	633	0.0	3.3	-3.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	38	1002	0.0	8.2	-8.2	
3	765 kV	JHARSUGUDA-DURG	2	0	524	0.0	9.0	-9.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	45	430	0.0	4.6	-4.6	
5	400 kV	RANCHI-SIPAT	2	24	286	0.0	2.0	-2.0	
6	220 kV	BUDHIPADAR-RAIGARH	1	1	62	0.0	1.1	-1.1	
7	220 kV	BUDHIPADAR-KORBA	2	99	32	0.8	0.0	0.8	
						ER-WR	0.8	28.3	-27.5
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	542	0.0	12.4	-12.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1986	0.0	40.8	-40.8	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2612	0.0	49.6	-49.6	
4	400 kV	TALCHER-T/C	2	7	674	0.0	7.7	-7.7	
5	220 kV	BALMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	102.7	-102.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	217	0.0	3.4	-3.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	260	0.0	3.8	-3.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	28	0.0	0.4	-0.4	
						ER-NER	0.0	7.6	-7.6
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	2030	0.0	33.8	-33.8	
2	HVDC	VINDHYACHAL B/B	2	441	0	6.4	0.0	6.4	
3	HVDC	MUNDRA-MOHINDERGARH	2	1445	0	31.9	0.0	31.9	
4	765 kV	GWALIOR-AGRA	2	5	1013	0.0	9.9	-9.9	
5	765 kV	GWALIOR-PHAGI	2	0	2005	0.0	36.0	-36.0	
6	765 kV	JABALPUR-ORAI	2	0	642	0.0	21.0	-21.0	
7	765 kV	GWALIOR-ORAI	1	981	0	16.6	0.0	16.6	
8	765 kV	SATNA-ORAI	1	0	850	0.0	17.5	-17.5	
9	765 kV	BANASKANTHA-CHITORGARH	2	2232	0	34.7	0.0	34.7	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1905	0.0	31.4	-31.4	
11	400 kV	ZERDA-KANKROLI	1	340	0	4.9	0.0	4.9	
12	400 kV	ZERDA-BHINMAL	1	526	37	5.2	0.0	5.2	
13	400 kV	VINDHYACHAL -RIHAND	1	969	0	22.3	0.0	22.3	
14	400 kV	RAPP-SHULIAPUR	2	448	254	0.3	0.0	0.3	
15	220 kV	BHANUPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANUPURA-MORAK	1	0	30	0.0	1.5	-1.5	
17	220 kV	MEHGAON-AURAIYA	1	134	0	1.1	0.0	1.1	
18	220 kV	MALANPUR-AURAIYA	1	104	1	1.7	0.0	1.7	
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	125.0	151.0	-26.0
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	4004	0.0	32.8	-32.8	
3	765 kV	SOLAPUR-RAICHUR	2	772	1387	0.0	12.2	-12.2	
4	765 kV	WARDHA-NIZAMABAD	2	0	2131	0.0	32.8	-32.8	
5	400 kV	KOLHAPUR-KUDCI	2	1309	0	17.7	0.0	17.7	
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	116	2.3	0.0	2.3	
						WR-SR	27.2	77.7	-50.6
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)	38	0	2	0.04			
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	241	0	229	5.50			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.09			
	NER	132KV GELEPHU-SALAKATI	5	0	0	0.00			
NEPAL	NER	132KV MOTANGA-RANGIA	8	0	1	0.03			
	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.00			
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	287	0	124	2.98			
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-918	-681	-850	-20.40			
BANGLADESH	NER	132KV COMILLA-SURAJMANJANAGAR 1&2	128	0	-103	-2.46			