



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रीड कंट्रोलर ऑफ इंडिया 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: 13th December 2022

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 12.12.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12- दिसंबर -2022 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 12th December 2022, is available at the NLDC website.

धन्यवाद,

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 13-Dec-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)	50101	55910	38693	19649	2599	166952
Peak Shortage (MW)	35	0	0	414	0	449
Energy Met (MU)	1086	1385	837	393	45	3747
Hydro Gen (MU)	124	35	68	29	11	268
Wind Gen (MU)	33	96	63	-	-	192
Solar Gen (MU)*	104.25	40.24	54.91	2.09	0.74	202
Energy Shortage (MU)	1.74	0.33	0.00	4.37	0.00	6.44
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55102	67668	42639	20167	2712	183491
Time Of Maximum Demand Met (From NLDC SCADA)	09:15	10:43	08:15	17:47	17:35	10:40

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	0.128	0.62	6.56	8.90	16.09	54.97	28.94

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	7160	0	137.7	50.0	-1.6	107	0.00
	Haryana	7658	0	138.3	69.6	-0.9	124	0.00
	Rajasthan	15743	245	303.2	91.8	-0.9	172	1.18
	Delhi	3794	0	65.8	60.2	-2.0	126	0.00
	UP	16748	0	308.0	81.7	-0.1	254	0.00
	Uttarakhand	2000	0	38.1	25.8	0.8	244	0.07
	HP	1930	0	33.8	24.8	-0.1	52	0.49
	J&K(UT) & Ladakh(UT)	2708	0	58.1	54.7	-1.4	88	0.00
	Chandigarh	220	0	3.4	3.6	-0.2	46	0.00
	WR	Chhattisgarh	4337	0	92.6	39.4	0.0	210
Gujarat		19094	0	391.2	216.8	0.1	668	0.00
MP		16174	0	311.0	184.3	-0.5	606	0.00
Maharashtra		25825	0	532.8	178.3	-0.8	530	0.00
Goa		639	0	13.0	11.7	0.8	70	0.33
DNHDDPDCL		1203	0	27.1	27.1	0.0	106	0.00
AMNSIL		788	0	17.7	10.3	0.8	284	0.00
SR	Andhra Pradesh	7672	0	155.8	49.4	-0.9	1120	0.00
	Telangana	10133	0	178.1	71.3	-2.1	516	0.00
	Karnataka	9034	0	166.0	53.3	-1.3	922	0.00
	Kerala	3519	0	68.4	51.1	0.0	157	0.00
	Tamil Nadu	13008	0	261.6	140.9	-3.9	396	0.00
	Puducherry	364	0	7.7	7.4	-0.3	49	0.00
ER	Bihar	4439	0	80.6	67.2	2.0	223	0.12
	DVC	3322	0	69.1	-41.4	-1.0	246	0.00
	Jharkhand	1335	0	26.8	18.4	-0.7	297	4.24
	Odisha	4799	0	94.8	33.2	-2.1	276	0.00
	West Bengal	6869	0	119.9	4.8	-2.2	298	0.00
NER	Sikkim	119	0	1.8	1.8	0.0	22	0.00
	Arunachal Pradesh	136	0	2.3	2.3	-0.2	19	0.00
	Assam	1496	0	25.5	19.5	-0.7	71	0.00
	Manipur	226	0	3.1	3.1	-0.1	23	0.00
	Meghalaya	367	0	6.8	5.5	0.0	32	0.00
	Mizoram	136	0	1.8	1.8	-0.3	24	0.00
	Nagaland	147	0	2.3	2.2	-0.1	14	0.00
	Tripura	227	0	3.6	3.9	-0.1	74	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	2.0	-1.0	-22.6
Day Peak (MW)	143.0	135.0	-1042.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	150.7	-57.2	55.2	-152.7	4.0	0.0
Actual(MU)	130.3	-43.6	55.5	-149.5	2.8	-4.4
O/D/U/D(MU)	-20.4	13.6	0.3	3.2	-1.2	-4.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7229	13651	7518	3120	1075	32593	52
State Sector	6440	14145	7125	2185	199	30094	48
Total	13669	27795	14643	5305	1274	62686	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	675	1255	494	547	5	2976	76
Lignite	27	15	25	0	0	67	2
Hvdro	125	35	68	29	11	268	7
Nuclear	26	21	65	0	0	112	3
Gas, Naptha & Diesel	14	2	6	2	29	51	1
RES (Wind, Solar, Biomass & Others)	160	138	140	2	1	441	11
Total	1027	1466	798	578	47	3915	100
Share of RES in total generation (%)	15.61	9.44	17.49	0.37	1.58	11.26	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.32	13.27	34.25	5.34	25.66	20.99	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.054

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: 13-Dec-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	8.3	-8.3	
3	765 kV	GAYA-VARANASI	2	171	753	0.0	8.9	-8.9	
4	765 kV	SASARAM-FATEHPUR	1	0	503	0.0	6.7	-6.7	
5	765 kV	GAYA-BALIA	1	0	548	0.0	9.3	-9.3	
6	400 kV	PUSAULI-VARANASI	1	0	236	0.0	4.8	-4.8	
7	400 kV	PUSAULI-ALLAHABAD	1	10	180	0.0	3.4	-3.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	670	0.0	7.9	-7.9	
9	400 kV	PATNA-BALIA	2	0	510	0.0	8.6	-8.6	
10	400 kV	NAUBATPUR-BALIA	2	0	546	0.0	9.2	-9.2	
11	400 kV	BIHARSHARIFF-BALIA	2	39	268	0.0	2.4	-2.4	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	490	0.0	7.6	-7.6	
13	400 kV	BIHARSHARIFF-VARANASI	2	61	286	0.0	2.9	-2.9	
14	220 kV	SINHPUR-KARMANASA	1	16	104	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	0.0	0.4	0.4	
17	132 kV	KARMANASA-SAHUPURI	1	0	35	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	81.0	-80.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	754	307	6.2	0.0	6.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	723	579	2.4	0.0	2.4	
3	765 kV	JHARSUGUDA-DURG	2	0	580	0.0	9.0	-9.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	69	507	0.0	5.9	-5.9	
5	400 kV	RANCHI-SIPAT	2	164	247	0.0	0.7	-0.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	2	137	0.0	1.9	-1.9	
7	220 kV	BUDHIPADAR-KORBA	2	134	82	0.3	0.0	0.3	
						ER-WR	8.9	17.4	-8.6
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	229	0.0	4.9	-4.9	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1651	0.0	37.0	-37.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2976	0.0	52.3	-52.3	
4	400 kV	TALCHER-I/C	2	666	252	3.4	0.0	3.4	
5	220 kV	BALMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	94.2	-94.2
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	386	0.0	6.3	-6.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	475	0.0	7.5	-7.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	55	0.0	0.8	-0.8	
						ER-NER	0.0	14.7	-14.7
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	506	0.0	12.2	-12.2	
2	HVDC	VINDHYACHAL B/B	-	45	0	1.2	0.0	1.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0	
4	765 kV	GWALIOR-AGRA	2	69	1042	0.1	13.3	-13.2	
5	765 kV	GWALIOR-PHAGI	2	0	1730	0.0	28.2	-28.2	
6	765 kV	JABALPUR-ORAI	2	0	775	0.0	22.4	-22.4	
7	765 kV	GWALIOR-ORAI	1	906	0	14.9	0.0	14.9	
8	765 kV	SATNA-ORAI	1	0	904	0.0	16.9	-16.9	
9	765 kV	BANASKANTHA-CHITTOORGARH	2	2245	0	26.4	0.0	26.4	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2135	0.0	32.9	-32.9	
11	400 kV	ZERDA-KANKROLI	1	357	0	4.6	0.0	4.6	
12	400 kV	ZERDA-JBHINMAL	1	616	0	6.9	0.0	6.9	
13	400 kV	VINDHYACHAL-RIHAND	1	962	0	20.8	0.0	20.8	
14	400 kV	RAPP-SHULIAPUR	2	386	289	2.6	0.9	1.7	
15	220 kV	BHANUPUR-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANUPUR-MORAK	1	0	30	0.0	1.6	-1.6	
17	220 kV	MEHGAON-AURAIYA	1	152	0	1.2	0.0	1.2	
18	220 kV	MALANPUR-AURAIYA	1	115	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	80.4	128.3	-47.9
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	987	0	22.6	0.0	22.6	
2	HVDC	RAIGARH-PUGALUR	2	692	749	10.0	0.0	10.0	
3	765 kV	SOLAPUR-RAICHUR	2	435	2105	0.5	15.7	-15.2	
4	765 kV	WARDHA-NIZAMABAD	2	0	2938	0.0	42.9	-42.9	
5	400 kV	KOLHAPUR-KUDCI	2	1222	0	20.6	0.0	20.6	
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	1	123	0.7	0.0	0.7	
						WR-SR	54.3	58.6	-4.2
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)	0	0	0	-6.60			
		400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	135	130	135	3.44			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.76			
	NER	132kV GELEPHU-SALAKATI	2	0	0	0.00			
	NER	132kV MOTANGA-RANGIA	-10	0	-5	-0.11			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-54	0	-33	-0.80			
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	189	1	-7	-0.16			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-927	-636	-847	-20.32			
	NER	132kV COMILLA-SURAJMANJANAGAR 1&2	-115	0	-93	-2.24			