



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: 14th 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 13.12.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13- 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 13th 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: 14-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)	50842	56981	39912	19907	2548	170190
Peak Shortage (MW)	40	0	0	423	0	463
Energy Met (MU)	1108	1403	864	396	45	3817
Hydro Gen (MU)	131	31	71	29	11	277
Wind Gen (MU)	48	126	53	-	-	227
Solar Gen (MU)*	104.57	37.65	71.15	2.14	0.74	216
Energy Shortage (MU)	0.78	0.00	0.00	3.32	0.00	4.10
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56527	67678	43207	20391	2684	184057
Time Of Maximum Demand Met (From NLDC SCADA)	09:16	10:43	07:42	17:46	17:32	09:59

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	0.130	49.3	4.04	6.94	11.91	55.42	32.67

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	7435	0	141.2	45.4	-1.4	70	0.00
	Haryana	7638	0	142.7	77.9	0.1	172	0.00
	Rajasthan	15950	0	307.9	87.6	-3.8	158	0.00
	Delhi	3829	0	67.1	60.5	-1.1	169	0.00
	UP	16897	0	311.4	82.1	0.2	301	0.04
	Uttarakhand	2227	0	41.2	28.2	2.4	235	0.00
	HP	1930	2	34.4	25.6	-0.1	88	0.56
	J&K(UT) & Ladakh(UT)	2730	0	58.4	55.3	-1.9	77	0.18
	Chandigarh	214	0	3.5	3.5	-0.1	45	0.00
	WR	Chhattisgarh	4388	0	95.1	43.0	0.3	229
Gujarat		19333	0	398.3	216.3	-2.3	781	0.00
MP		15516	0	301.0	184.3	-4.1	372	0.00
Maharashtra		27063	0	550.2	181.9	-0.6	785	0.00
Goa		645	0	13.1	12.1	0.4	83	0.00
DNHDDPDCL		1218	0	27.8	27.9	-0.1	85	0.00
AMNSIL		787	0	17.7	11.0	0.1	250	0.00
Andhra Pradesh		7775	0	159.5	42.9	-0.8	502	0.00
Telangana		10726	0	185.9	73.0	-0.7	531	0.00
SR		Karnataka	9115	0	169.3	54.8	-1.4	396
	Kerala	3680	0	70.5	50.7	0.2	243	0.00
	Tamil Nadu	13621	0	270.9	146.2	-2.7	710	0.00
	Puducherry	384	0	8.2	7.7	-0.1	93	0.00
	ER	Bihar	4435	0	81.4	68.1	1.6	177
DVC		3279	0	69.0	-40.6	-1.1	268	0.00
Jharkhand		1371	0	26.6	18.2	0.5	365	3.08
Odisha		4778	0	93.1	29.3	-1.2	389	0.00
West Bengal		7027	0	124.2	5.9	-1.9	269	0.00
Sikkim		122	0	1.9	1.9	0.0	24	0.00
NER	Arunachal Pradesh	135	0	2.3	2.0	0.1	52	0.00
	Assam	1511	0	25.7	19.0	-0.1	122	0.00
	Manipur	229	0	3.1	3.0	0.1	45	0.00
	Meghalaya	368	0	6.4	4.9	0.0	35	0.00
	Mizoram	138	0	1.8	1.7	-0.3	13	0.00
	Nagaland	125	0	2.2	1.9	0.2	31	0.00
	Tripura	214	0	3.7	3.7	0.3	46	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	1.6	-1.5	-22.6
Day Peak (MW)	143.0	124.0	-1045.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	146.9	-69.1	60.9	-144.6	5.9	0.0
Actual(MU)	125.8	-56.7	58.4	-139.6	6.1	-5.9
OD/UD(MU)	-21.1	12.5	-2.5	5.0	0.2	-5.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7189	13441	7518	3780	1438	33366	51
State Sector	7870	14720	6915	2185	199	31888	49
Total	15059	28160	14433	5965	1637	65254	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	689	1250	505	534	5	2983	75
Lignite	24	15	25	0	0	64	2
Hydro	132	31	72	29	11	275	7
Nuclear	26	21	65	0	0	112	3
Gas, Naptha & Diesel	13	7	5	0	26	51	1
RES (Wind, Solar, Biomass & Others)	173	165	148	2	1	489	12
Total	1058	1489	820	565	44	3975	100

Share of RES in total generation (%)	16.35	11.09	18.06	0.38	1.70	12.30
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.31	14.62	34.73	5.48	28.06	22.06

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.069

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: 14-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	348	0.0	8.6	-8.6	
3	765 kV	GAYALYARANASI	2	242	753	0.0	7.0	-7.0	
4	765 kV	SASARAM-FATEHPUR	1	9	411	0.0	5.8	-5.8	
5	765 kV	GAYA-BALIA	1	0	629	0.0	9.3	-9.3	
6	400 kV	PUSAULI-VARANASI	1	0	243	0.0	4.9	-4.9	
7	400 kV	PUSAULI-ALLAHABAD	1	0	180	0.0	3.4	-3.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	29	591	0.0	6.0	-6.0	
9	400 kV	PATNA-BALIA	2	0	356	0.0	8.5	-8.5	
10	400 kV	NAUBATPUR-BALIA	2	0	495	0.0	7.0	-7.0	
11	400 kV	BIHARSHARIFF-BALIA	2	88	221	0.0	1.7	-1.7	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	422	0.0	6.1	-6.1	
13	400 kV	BIHARSHARIFF-VARANASI	2	108	238	0.0	2.0	-2.0	
14	220 kV	SINHPUR-KARMANASA	1	42	109	0.0	0.8	-0.8	
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	26	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	71.1	-70.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	836	292	7.9	0.0	7.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	717	397	5.1	0.0	5.1	
3	765 kV	JHARSUGUDA-DURG	2	0	552	0.0	8.3	-8.3	
4	400 kV	JHARSUGUDA-RAIGARH	4	57	580	0.0	6.6	-6.6	
5	400 kV	RANCHI-SIPAT	2	173	186	0.0	0.5	-0.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	160	0.0	2.1	-2.1	
7	220 kV	BUDHIPADAR-KORBA	2	127	89	0.5	0.0	0.5	
						ER-WR	13.6	17.5	-3.9
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	330	0.0	6.0	-6.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	36.1	-36.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2916	0.0	50.2	-50.2	
4	400 kV	TALCHER-I/C	2	576	629	1.7	0.0	1.7	
5	220 kV	BALMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	92.3	-92.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	497	0.0	8.1	-8.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	121	634	0.0	9.9	-9.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	67	0.0	1.0	-1.0	
						ER-NER	0.0	19.0	-19.0
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	12.2	-12.2	
						NER-NR	0.0	12.2	-12.2
Import/Export of WR (With NR)									
1	HVDC	CHAMPAKURUKSHETRA	2	0	1007	0.0	13.8	-13.8	
2	HVDC	VINDHYACHAL B/B	-	272	0	7.1	0.0	7.1	
3	HVDC	MUNDRA-MOHENDERGARH	2	974	0	8.5	0.0	8.5	
4	765 kV	GWALIOR-AGRA	2	0	1246	0.0	16.5	-16.4	
5	765 kV	GWALIOR-PHAGI	2	0	1752	0.0	26.4	-26.4	
6	765 kV	JABALPUR-ORAI	2	0	804	0.0	24.3	-24.3	
7	765 kV	GWALIOR-ORAI	1	877	0	14.0	0.0	14.0	
8	765 kV	SATNA-ORAI	1	0	962	0.0	17.7	-17.7	
9	765 kV	BANASKANTHA-CHITORGARH	2	2024	535	20.5	1.4	19.1	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2305	0.0	38.0	-38.0	
11	400 kV	ZERDA-KANKROLI	1	338	26	3.9	0.0	3.9	
12	400 kV	ZERDA-JBHINMAL	1	589	59	6.9	0.0	6.9	
13	400 kV	VINDHYACHAL-RIHAND	1	953	0	21.2	0.0	21.2	
14	400 kV	RAPP-SHULIAPUR	2	483	315	2.5	1.3	1.2	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7	
17	220 kV	MEHGAON-AURAIYA	1	145	0	1.1	0.0	1.1	
18	220 kV	MALANPUR-AURAIYA	1	114	0	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	87.5	141.1	-53.7
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	990	0	20.1	0.0	20.1	
2	HVDC	RAIGARH-PUGALUR	2	692	999	7.6	0.0	7.6	
3	765 kV	SOLAPUR-RAICHUR	2	897	1778	2.7	15.1	-12.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	2944	0.0	43.3	-43.3	
5	400 kV	KOLHAPUR-KUDCI	2	1253	0	19.0	0.0	19.0	
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	118	2.2	0.0	2.2	
						WR-SR	51.5	58.4	-6.9

INTERNATIONAL EXCHANGES				Import(+ve)/Export(-ve) Energy Exchange (MU)			
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 MANGDECHHU HEP 4*180MW)	0	0	0	-0.63	
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	145	118	134	3.22	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.83	
	NER	132kV GELEPHU-SALAKATI	-2	0	0	0.00	
	NER	132kV MOTANGA-RANGIA	-15	0	-7	-0.16	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-58	0	-35	-0.83	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	182	-134	-29	-0.69	
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-931	-628	-845	-20.29	
	NER	132kV COMILLA-SURAJMANJANAGAR 1&2	-114	0	-95	-2.28	