



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: 18th 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 17.12.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17- 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 17th 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: 18-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)	50167	58121	41430	19742	2591	172051
Peak Shortage (MW)	1957	0	0	431	0	2388
Energy Met (MU)	1112	1436	941	401	46	3936
Hydro Gen (MU)	133	41	90	31	10	305
Wind Gen (MU)	2	36	44	-	-	82
Solar Gen (MU)*	109.45	49.88	103.59	5.10	0.69	269
Energy Shortage (MU)	14.42	0.00	0.00	2.96	0.00	17.38
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55958	68518	45938	20322	2692	189554
Time Of Maximum Demand Met (From NLDC SCADA)	11:18	11:05	07:41	17:47	17:32	11:18

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	0.093	0.05	3.83	7.34	11.21	57.89	30.90

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	7393	0	137.4	40.0	-1.4	96	0.00
	Haryana	7743	0	143.2	89.6	-1.0	131	1.63
	Rajasthan	16103	21	306.6	124.7	-0.8	167	11.52
	Delhi	3814	0	67.4	59.2	-0.6	164	0.00
	UP	18187	0	320.7	74.7	1.2	603	0.58
	Uttarakhand	2092	150	40.3	27.5	0.7	170	0.56
	HP	1940	0	34.7	26.2	-0.2	44	0.00
	J&K(UT) & Ladakh(UT)	2659	0	58.2	55.3	-2.4	10	0.13
WR	Chandigarh	223	0	3.7	3.6	0.1	19	0.00
	Chhattisgarh	4565	0	99.4	52.4	-1.1	145	0.00
	Gujarat	19875	0	405.8	260.9	2.2	817	0.00
	MP	15848	0	312.7	189.9	-2.3	768	0.00
	Maharashtra	26690	0	559.0	178.9	2.4	719	0.00
	Goa	650	0	13.3	12.3	0.5	96	0.00
SR	DNHDDPDCL	1224	0	28.1	28.1	0.0	31	0.00
	AMNSIL	801	0	17.8	10.4	0.8	240	0.00
	Andhra Pradesh	8430	0	176.5	63.0	-0.7	391	0.00
	Telangana	11917	0	205.3	85.4	-0.1	673	0.00
	Karnataka	10418	0	192.5	63.5	1.6	673	0.00
	Kerala	3710	0	72.5	51.5	-0.2	142	0.00
	Tamil Nadu	14223	0	285.4	155.6	-3.1	778	0.00
	Puducherry	390	0	8.8	8.1	0.0	43	0.00
ER	Bihar	4717	0	83.8	70.5	1.4	210	0.07
	DVC	3445	0	71.1	-37.0	-0.5	197	0.00
	Jharkhand	1625	0	28.1	20.1	-0.9	194	2.89
	Odisha	4584	0	92.6	29.4	-2.1	170	0.00
	West Bengal	6781	0	123.2	-2.7	-2.4	158	0.00
	Sikkim	114	0	1.8	1.8	0.0	44	0.00
NER	Arunachal Pradesh	145	0	2.4	2.4	-0.2	54	0.00
	Assam	1491	0	25.4	20.5	-1.5	53	0.00
	Manipur	234	0	3.3	3.4	0.0	21	0.00
	Meghalaya	378	0	7.0	5.8	0.1	48	0.00
	Mizoram	138	0	1.9	1.9	-0.3	19	0.00
	Nagaland	148	0	2.4	2.3	0.0	11	0.00
Tripura	221	0	3.7	4.0	-0.1	28	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	1.4	-2.2	-21.8
Day Peak (MW)	99.0	-147.0	-1055.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	149.9	-31.8	62.6	-182.8	2.1	0.0
Actual(MU)	135.8	-11.2	57.9	-191.3	0.1	-8.7
OD/UD(MU)	-14.1	20.6	-4.6	-8.5	-2.0	-8.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5914	14571	7818	2610	859	31771	46
State Sector	9295	16821	8365	2352	199	37032	54
Total	15208	31392	16183	4962	1058	68802	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	727	1295	501	593	10	3126	77
Lignite	22	11	26	0	0	58	1
Hydro	140	41	90	31	10	313	8
Nuclear	26	33	65	0	0	124	3
Gas, Naptha & Diesel	15	5	5	0	30	56	1
RES (Wind, Solar, Biomass & Others)	133	88	173	5	1	399	10
Total	1063	1472	860	629	51	4076	100
Share of RES in total generation (%)	12.52	5.96	20.07	0.82	1.36	9.80	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.12	10.98	38.11	5.81	21.85	20.52	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.070

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: 18-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	8.7	-8.7	
3	765 kV	GAYA-VARANASI	2	0	854	0.0	12.9	-12.9	
4	765 kV	SASARAM-FATEHPUR	1	0	477	0.0	8.9	-8.9	
5	765 kV	GAYA-BALIA	1	0	623	0.0	11.6	-11.6	
6	400 kV	PUSAULI-VARANASI	1	0	244	0.0	4.9	-4.9	
7	400 kV	PUSAULI -ALLAHABAD	1	0	192	0.0	3.6	-3.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	826	0.0	13.7	-13.7	
9	400 kV	PATNA-BALIA	2	0	771	0.0	15.2	-15.2	
10	400 kV	SAUBATPUR-BALIA	2	0	685	0.0	9.3	-9.3	
11	400 kV	BIHARSHARIFF-BALIA	2	0	485	0.0	8.9	-8.9	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	673	0.0	12.0	-12.0	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	345	0.0	5.4	-5.4	
14	220 kV	SAHPURI-KARAMNANA	1	25	106	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	0.4	0.0	0.4	
17	132 kV	KARMANASA-SAHUPURI	1	0	2	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	116.0	-115.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	622	442	0.0	0.1	-0.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	363	679	0.0	3.0	-3.0	
3	765 kV	JHARSUGUDA-DURG	2	0	686	0.0	11.1	-11.1	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	611	0.0	9.9	-9.9	
5	400 kV	RANCHI-SIPAT	2	0	305	0.0	2.8	-2.8	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	145	0.0	2.4	-2.4	
7	220 kV	BUDHIPADAR-KORBA	2	43	116	0.0	1.0	-1.0	
						ER-WR	0.0	30.3	-30.3
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	201	546	0.0	9.6	-9.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2358	0.0	40.1	-40.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3376	0.0	58.9	-58.9	
4	400 kV	TALCHER-1/C	2	622	640	3.1	0.0	3.1	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	108.6	-108.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	239	0	3.6	0.0	3.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	399	0	7.0	0.0	7.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	40	0	0.6	0.0	0.6	
						ER-NER	11.2	0.0	11.2
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	473	0	11.6	0.0	11.6	
						NER-NR	11.6	0.0	11.6
Import/Export of WR (With NR)									
1	HVDC	CHAMPRA-KURUKSHETRA	2	0	1520	0.0	32.0	-32.0	
2	HVDC	VINDHYACHAL B/B	-	49	101	0.4	1.7	-1.3	
3	HVDC	MUNDRA-MOHINDERGARH	2	1444	0	0.0	34.0	-34.0	
4	765 kV	GWALIOR-AGRA	2	93	1273	0.1	13.5	-13.4	
5	765 kV	GWALIOR-PHAGI	2	0	2160	0.0	38.3	-38.3	
6	765 kV	JABALPUR-ORAI	2	0	963	0.0	25.1	-25.1	
7	765 kV	GWALIOR-ORAI	1	951	0	18.3	0.0	18.3	
8	765 kV	SATNA-ORAI	1	0	1014	0.0	18.1	-18.1	
9	765 kV	BANASKANTHA-CHITORGARH	2	2287	0	30.7	0.0	30.7	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2195	0.0	29.6	-29.6	
11	400 kV	ZERDA-KANKROLI	1	332	8	4.3	0.0	4.3	
12	400 kV	ZERDA-BHINMAL	1	472	180	3.6	0.0	3.6	
13	400 kV	VINDHYACHAL-RIHAND	0	1	959	0	21.0	0.0	
14	400 kV	RAPP-SHUALPUR	2	367	530	1.4	3.0	-1.7	
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	153	0	1.2	0.0	1.2	
18	220 kV	MALANPUR-AURAIYA	1	122	0	1.9	0.0	1.9	
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
20	132 kV	RAIGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	82.7	196.8	-114.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	990	0	18.1	0.0	18.1	
2	HVDC	RAIGARH-PUGALLUR	2	2633	1498	20.2	0.0	20.2	
3	765 kV	SOLAPUR-RAICHUR	2	1219	1560	4.3	13.5	-9.2	
4	765 kV	WARDHA-NIZAMABAD	2	0	3048	0.0	46.1	-46.1	
5	400 kV	KOLHAPUR-KUDGI	2	1367	0	19.4	0.0	19.4	
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	NELDEM-AMBEWADI	1	0	114	2.3	59.6	2.3	
						WR-SR	64.2	4.7	59.6

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

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	-1.42
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	157	0	153	3.66
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.71
	NER	132kV GELEPHU-SALAKATI	-39	0	-6	-0.14
	NER	132kV MOTANGA-RANGIA	-6	0	-1	-0.02
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-69	0	-50	-1.20
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-78	50	-43	-1.02
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-937	-629	-813	-19.50
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-118	0	-94	-2.26