



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: 3rd December 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 02.12.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02- दिसंबर -2022 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 02nd 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: 03-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)	47473	55431	42376	19153	2575	167008
Peak Shortage (MW)	0	0	0	533	0	533
Energy Met (MU)	1064	1378	992	385	46	3866
Hydro Gen (MU)	132	35	113	36	12	329
Wind Gen (MU)	2	33	28	-	-	62
Solar Gen (MU)*	98.53	46.84	85.10	2.11	0.78	233
Energy Shortage (MU)	3.65	0.00	0.00	4.88	0.03	8.56
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53886	66658	49797	19612	2752	189393
Time Of Maximum Demand Met (From NLDC SCADA)	11:15	10:48	10:59	17:45	17:18	11:03

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	0.073	0.44	3.48	13.85	17.78	70.76	11.47

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	6770	0	135.3	41.3	-1.3	76	0.00
	Haryana	7249	0	133.9	66.5	-1.0	183	0.00
	Rajasthan	15654	0	302.1	117.2	1.5	334	2.17
	Delhi	3820	0	67.2	60.8	-1.2	187	0.00
	UP	15098	0	294.3	56.8	-1.7	576	0.00
	Uttarakhand	1981	70	37.7	26.2	0.3	113	0.22
	HP	1942	0	33.0	22.9	0.1	145	0.72
	J&K(UT) & Ladakh(UT)	2615	210	57.3	51.0	0.6	196	0.54
	Chandigarh	207	0	3.4	3.5	-0.1	11	0.00
	WR	Chhattisgarh	4094	0	88.0	32.8	0.0	189
Gujarat		19122	0	391.1	236.2	-0.2	572	0.00
MP		16166	0	310.4	191.3	-3.5	529	0.00
Maharashtra		25457	0	531.4	159.4	0.1	600	0.00
Goa		641	0	13.4	12.5	0.3	44	0.00
DNHDDPDCL		1180	0	26.6	26.4	0.2	53	0.00
AMNSIL		776	0	17.5	10.5	0.3	247	0.00
SR	Andhra Pradesh	9792	0	190.8	78.3	0.3	467	0.00
	Telangana	10377	0	180.3	55.0	0.8	455	0.00
	Karnataka	12561	0	222.2	78.5	0.6	616	0.00
	Kerala	3835	0	78.4	56.4	0.6	206	0.00
	Tamil Nadu	14938	0	312.2	186.2	2.8	681	0.00
	Puducherry	382	0	8.6	8.1	-0.3	22	0.00
	ER	Bihar	4396	0	77.5	64.9	1.5	281
DVC		3242	0	67.7	-44.3	-0.2	276	0.00
Jharkhand		1508	0	26.3	17.4	0.1	328	4.75
Odisha		4815	0	94.1	27.2	-2.4	338	0.00
West Bengal		6625	0	117.5	0.4	-0.1	629	0.00
Sikkim		115	0	1.8	1.5	0.3	60	0.00
NER	Arunachal Pradesh	140	0	2.3	2.0	0.0	24	0.00
	Assam	1553	0	26.1	19.3	0.1	138	0.03
	Manipur	216	0	2.8	2.8	0.0	27	0.00
	Meghalaya	367	0	6.8	5.7	0.0	52	0.00
	Mizoram	125	0	1.8	1.9	-0.2	6	0.00
	Nagaland	158	0	2.3	2.0	0.3	31	0.00
	Tripura	248	0	3.9	2.2	-0.3	25	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.8	2.2	-20.5
Day Peak (MW)	409.8	186.0	-1011.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	139.0	-76.3	122.0	-183.0	-1.7	0.0
Actual(MU)	130.5	-94.4	138.6	-178.5	-2.2	-6.0
O/D/U/D(MU)	-8.5	-18.1	16.6	4.5	-0.5	-6.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7973	11646	8568	2910	844	31940	51
State Sector	8095	12947	7310	1870	121	30342	49
Total	16068	24592	15878	4780	964	62282	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	685	1341	511	548	10	3094	76
Lignite	33	11	42	0	0	85	2
Hydro	133	35	113	36	12	331	8
Nuclear	26	36	62	0	0	125	3
Gas, Naptha & Diesel	15	2	5	0	29	51	1
RES (Wind, Solar, Biomass & Others)	124	81	159	2	1	367	9
Total	1017	1506	892	586	52	4052	100
Share of RES in total generation (%)	12.23	5.36	17.79	0.36	1.51	9.05	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.90	10.11	37.50	6.58	24.89	20.28	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.046

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: 03-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	3.5	-8.5
3	765 kV	GAYA-VARANASI	2	0	701	0.0	10.7	-10.7
4	765 kV	SASARAM-FATEHPUR	1	0	21	0.0	0.0	0.0
5	765 kV	GAYA-BALIA	1	0	522	0.0	10.4	-10.4
6	400 kV	PUSAULI-VARANASI	1	0	231	0.0	4.9	-4.9
7	400 kV	PUSAULI-ALLAHABAD	1	0	180	0.0	3.6	-3.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	697	0.0	10.1	-10.1
9	400 kV	PATNA-BALIA	2	0	509	0.0	10.2	-10.2
10	400 kV	NAUBATPUR-BALIA	2	0	553	0.0	10.7	-10.7
11	400 kV	BIHARSHARIF-BALIA	2	0	395	0.0	6.4	-6.4
12	400 kV	MOTHARI-GORAKHPUR	2	0	424	0.0	7.6	-7.6
13	400 kV	BIHARSHARIF-VARANASI	2	0	319	0.0	4.6	-4.6
14	220 kV	SAHUPURI-KARAMNANA	1	0	127	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	33	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
						ER-NR	89.3	-88.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	364	614	0.0	0.8	-0.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	216	722	0.0	3.8	-3.8
3	765 kV	JHARSUGUDA-DURG	2	0	769	0.0	10.5	-10.5
4	400 kV	JHARSUGUDA-RAIGARH	4	63	376	0.0	3.6	-3.6
5	400 kV	RANCHI-SIPAT	2	60	268	0.0	1.1	-1.1
6	220 kV	BUDHIPADAR-RAIGARH	1	9	121	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	123	50	0.8	0.0	0.8
						ER-WR	21.3	-20.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	549	0.0	10.7	-10.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1977	0.0	36.3	-36.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2830	0.0	53.6	-53.6
4	400 kV	TALCHER-I/C	2	0	638	0.0	3.3	-3.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
						ER-SR	100.6	-100.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	252	0.0	4.4	-4.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	304	0.0	5.0	-5.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	31	0.0	0.5	-0.5
						ER-NER	9.9	-9.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	12.0	-12.0
						NER-NR	12.0	-12.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1536	0.0	35.2	-35.2
2	HVDC	VINDHYACHAL B/B	-	226	0	3.2	0.0	3.2
3	HVDC	MUNDRA-MOHINDERGARH	2	1445	0	34.5	0.0	34.5
4	765 kV	GWALIOR-AGRA	2	53	905	0.1	13.2	-13.1
5	765 kV	GWALIOR-PHAGI	2	0	1885	0.0	33.2	-33.2
6	765 kV	JABALPUR-ORAI	2	0	652	0.0	22.0	-22.0
7	765 kV	GWALIOR-ORAI	1	891	0	17.2	0.0	17.2
8	765 kV	SATNA-ORAI	1	0	833	0.0	16.7	-16.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1979	0	26.6	0.0	26.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	1899	0.0	31.1	-31.1
11	400 kV	ZERDA-KANKROLI	1	301	3	3.4	0.0	3.4
12	400 kV	ZERDA-BHINMAL	1	416	162	2.4	0.0	2.4
13	400 kV	VINDHYACHAL-RIHAND	1	978	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	359	326	1.8	2.5	-0.8
15	220 kV	BHANPURA-RANPUR	1	48	147	0.0	1.3	-1.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7
17	220 kV	MEHGAON-AURAIYA	1	163	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	128	0	1.8	0.0	1.8
19	132 kV	GWALIOR-SAWALMADHOPUR	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	114.3	-116.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	0	13.2	0.0	13.2
2	HVDC	RAIGARH-PUGALUR	2	0	2506	0.0	35.3	-35.3
3	765 kV	SOLAPUR-RAICHUR	2	0	1917	0.0	24.3	-24.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2878	0.0	46.4	-46.4
5	400 kV	KOLHAPUR-KUDGI	2	1117	0	17.4	0.0	17.4
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	XELDEM-AMBEWADI	1	0	113	2.2	0.0	2.2
						WR-SR	32.8	-73.3

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	-0.05
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (5*70MW))	342	145	201	4.82
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.20
	NER	132kV GELEPHU-SALAKATI	5	-4	2	0.04
	NER	132kV MOTANGA-RANGIA	12	-3	6	0.14
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-42	0	-13	-0.31
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	228	1	103	2.46
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-909	-667	-766	-18.38
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-102	0	-88	-2.12