



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: 24th March 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 23.03.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-मार्च -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 23rd March 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: 24-Mar-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)	52342	59367	47784	23651	2996	186140
Peak Shortage (MW)	822	0	0	740	0	1562
Energy Met (MU)	1134	1439	1203	514	54	4344
Hydro Gen (MU)	168	74	106	46	10	404
Wind Gen (MU)	28	80	25	-	-	133
Solar Gen (MU)*	92.35	41.57	97.86	4.50	0.35	237
Energy Shortage (MU)	27.03	0.31	4.70	8.12	0.00	40.16
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53575	63464	58012	23815	3071	196302
Time Of Maximum Demand Met (From NLDC SCADA)	19:25	11:54	12:50	18:46	18:35	11:50

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	0.112	0.86	4.48	27.01	32.35	60.37	7.28

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	7436	0	153.9	56.4	-1.3	139	1.83	
	Haryana	7416	0	142.0	85.2	1.3	381	9.59	
	Rajasthan	12711	0	254.3	50.6	0.6	368	4.24	
	Delhi	4004	0	83.6	72.3	-1.3	128	0.01	
	UP	19628	0	377.1	169.0	-1.5	319	1.36	
	Uttarakhand	2000	0	35.6	17.2	3.2	267	5.35	
	HP	1626	0	32.0	14.4	0.1	168	0.00	
	J&K(UT) & Ladakh(UT)	2352	300	51.8	37.7	3.5	348	4.65	
	Chandigarh	205	0	3.9	4.3	-0.3	19	0.00	
	WR	Chhattisgarh	4840	0	115.0	60.7	0.2	435	0.00
Gujarat		18038	0	402.9	180.3	1.8	1059	0.00	
MP		12308	0	261.1	145.2	-0.4	776	0.00	
Maharashtra		27401	0	601.0	174.4	0.2	1382	0.00	
Goa		631	0	13.7	12.4	1.1	110	0.31	
DD		355	0	8.0	7.0	1.0	102	0.00	
DNH		885	0	20.4	20.1	0.3	223	0.00	
AMNSIL		768	0	17.0	9.9	0.5	625	0.00	
SR		Andhra Pradesh	11499	0	220.7	93.4	3.9	983	4.70
		Telangana	12969	0	265.7	126.7	0.9	496	0.00
	Karnataka	13699	0	261.6	84.8	-1.7	505	0.00	
	Kerala	4029	0	88.1	56.6	-0.8	208	0.00	
	Tamil Nadu	16336	0	357.6	241.3	-0.5	714	0.00	
	Puducherry	440	0	9.3	9.8	-0.5	28	0.00	
ER	Bihar	5580	0	113.2	104.9	1.0	294	4.28	
	DVC	3557	0	75.4	-57.3	-0.1	236	0.00	
	Jharkhand	1496	0	32.1	23.6	0.5	177	3.84	
	Odisha	5440	0	113.6	43.4	-2.8	402	0.00	
	West Bengal	8540	0	178.4	48.5	1.0	362	0.00	
	Sikkim	106	0	1.7	1.8	-0.1	37	0.00	
NER	Arunachal Pradesh	141	0	2.4	2.4	-0.1	17	0.00	
	Assam	1874	0	33.2	29.4	-0.5	111	0.00	
	Manipur	193	0	2.6	2.6	0.0	47	0.00	
	Meghalaya	361	0	6.6	4.9	0.2	42	0.00	
	Mizoram	113	0	1.7	1.5	-0.2	11	0.00	
	Nagaland	164	0	2.4	2.3	0.1	24	0.00	
	Tripura	290	0	5.0	4.6	0.1	45	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.2	-5.0	-21.0
Day Peak (MW)	441.0	-522.7	-887.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	125.7	-206.5	191.8	-121.2	10.2	0.0
Actual(MU)	119.6	-199.2	186.1	-122.6	8.6	-7.6
O/D/U/D(MU)	-6.1	7.3	-5.7	-1.5	-1.7	-7.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4410	12028	6322	2041	520	25321	42
State Sector	12229	14656	5935	2108	11	34938	58
Total	16640	26683	12257	4149	531	60259	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	639	1412	660	609	13	3334	75
Lignite	28	9	36	0	0	73	2
Hydro	168	74	106	46	10	404	9
Nuclear	32	33	70	0	0	134	3
Gas, Naptha & Diesel	15	17	9	0	28	69	2
RES (Wind, Solar, Biomass & Others)	153	123	154	5	0	435	10
Total	1035	1668	1034	660	52	4448	100

Share of RES in total generation (%)	14.77	7.36	14.89	0.69	0.68	9.77
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.12	13.75	31.87	7.62	19.58	21.86

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.067

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: 24-Mar-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	-	3	0	0.0	0.0	0.0	
3	765 kV	GAYA-VARANASI	2	134	291	0.0	1.6	-1.6	
4	765 kV	SASARAM-FATEHPUR	1	0	274	0.0	4.7	-4.7	
5	765 kV	GAYA-BALIA	1	0	460	0.0	7.9	-7.9	
6	400 kV	PUSAULI-VARANASI	1	0	62	0.0	0.7	-0.7	
7	400 kV	PUSAULI-ALLAHABAD	1	22	88	0.0	0.4	-0.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	249	467	0.0	3.6	-3.6	
9	400 kV	PATNA-BALIA	2	0	639	0.0	12.4	-12.4	
10	400 kV	NAUBATPUR-BALIA	2	0	713	0.0	13.9	-13.9	
11	400 kV	BIHARSHARIF-BALIA	2	200	175	0.0	0.3	-0.3	
12	400 kV	MOTHARI-GORAKHPUR	2	331	55	0.0	2.8	-2.8	
13	400 kV	BIHARSHARIF-VARANASI	2	36	177	0.0	1.4	-1.4	
14	220 kV	SAHUPURI-KARAMNANA	1	0	151	0.0	2.0	-2.0	
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	0	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	51.6	-51.2
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	860	110	10.2	0.0	10.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1186	0	17.7	0.0	17.7	
3	765 kV	JHARSUGUDA-DURG	2	110	149	0.0	2.2	-2.2	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	365	0.0	6.0	-6.0	
5	400 kV	RANCHI-SIPAT	2	218	65	2.3	0.0	2.3	
6	220 kV	BUDHIPADAR-RAIGARH	1	12	113	0.0	1.6	-1.6	
7	220 kV	BUDHIPADAR-KORBA	2	126	24	0.8	0.0	0.8	
						ER-WR	31.0	9.8	21.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	721	0.0	16.2	-16.2	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1983	0.0	41.8	-41.8	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2966	0.0	55.5	-55.5	
4	400 kV	TALCHER-I/C	2	420	629	0.0	3.3	-3.3	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	113.4	-113.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	372	0.0	6.2	-6.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	599	0.0	9.3	-9.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	102	0.0	1.7	-1.7	
						ER-NER	0.0	17.1	-17.1
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	353	0.0	8.5	-8.5	
						NER-NR	0.0	8.5	-8.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1503	0.0	14.1	-14.1	
2	HVDC	VINDHYACHAL B/B	-	447	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	496	0.0	6.6	-6.6	
4	765 kV	GWALIOR-AGRA	2	0	1767	0.0	27.2	-27.2	
5	765 kV	GWALIOR-PHAGI	2	186	1321	0.2	14.3	-14.0	
6	765 kV	JABALPUR-ORAI	2	0	905	0.0	26.6	-26.6	
7	765 kV	GWALIOR-ORAI	1	563	0	10.3	0.0	10.3	
8	765 kV	SATNA-ORAI	1	0	936	0.0	18.1	-18.1	
9	765 kV	BANASKANTHA-CHITTOGARH	2	1557	0	21.7	0.0	21.7	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2550	0.0	44.3	-44.3	
11	400 kV	ZERDA-KANKROLI	1	342	0	6.0	0.0	6.0	
12	400 kV	ZERDA-BHINMAL	1	639	0	9.9	0.0	9.9	
13	400 kV	VINDHYACHAL-RIHAND	1	978	0	22.4	0.0	22.4	
14	400 kV	RAPP-SHUJALPUR	2	472	194	4.7	0.6	4.1	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0	
17	220 kV	MEHGAON-AURAIYA	1	124	0	0.8	0.0	0.8	
18	220 kV	MALANPUR-AURAIYA	1	79	0	1.7	0.0	1.7	
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	90.0	151.8	-61.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	23.9	-23.9	
2	HVDC	RAIGARH-PUGALUR	2	0	4517	0.0	57.1	-57.1	
3	765 kV	SOLAPUR-RAICHUR	2	493	1774	0.2	17.5	-17.3	
4	765 kV	WARDHA-NIZAMABAD	2	0	2886	0.0	45.6	-45.6	
5	400 kV	KOLHAPUR-KUDGI	2	1441	0	24.7	0.0	24.7	
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	128	2.6	0.0	2.6	
						WR-SR	27.4	144.1	-116.7

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)	162	0	129	3.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*70MW))	213	192	202	4.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	55	35	35	0.8
	NER	132kV GELEPHU-SALAKATI	15	6	9	0.2
	NER	132kV MOTANGA-RANGIA	24	1	15	0.4
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-71	0	-39	-0.9
	ER	NEPAL IMPORT (FROM BIHAR)	-336	-2	-99	-2.4
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-116	33	-70	-1.7
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-729	-725	-727	-17.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-158	0	-148	-3.6