



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: 19th 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 18.03.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th March 2022, is available at the NLDC website.

धन्यवाद,

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 19-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)	43111	47720	45263	21379	2621	160094
Peak Shortage (MW)	250	4	0	130	0	384
Energy Met (MU)	1054	1268	1210	465	49	4046
Hydro Gen (MU)	190	43	90	42	9	375
Wind Gen (MU)	25	82	39	-	-	147
Solar Gen (MU)*	94.47	47.54	109.44	5.26	0.42	257
Energy Shortage (MU)	5.90	0.36	0.04	1.40	0.00	7.70
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47749	58973	59175	21691	2722	179911
Time Of Maximum Demand Met (From NLDC SCADA)	06:52	00:01	10:55	19:24	18:18	11:55

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	0.038	0.00	0.71	6.30	7.00	76.85	16.14

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	7535	0	155.5	62.7	-2.1	72	0.00
	Haryana	5750	0	117.6	78.5	-0.9	208	1.11
	Rajasthan	12531	0	242.5	37.8	-2.0	240	0.00
	Delhi	2865	0	61.3	49.9	-1.5	87	0.01
	UP	17321	0	373.5	177.6	-4.1	491	0.00
	Uttarakhand	1345	0	28.0	10.3	0.5	188	0.13
	HP	1094	0	20.2	5.2	-1.7	204	0.00
	J&K(UT) & Ladakh(UT)	2344	300	52.3	41.1	0.6	271	4.65
WR	Chhattisgarh	175	0	3.1	4.3	-1.3	0	0.00
	Gujarat	4425	0	100.7	43.3	-1.1	227	0.00
	Madhya Pradesh	16247	0	321.2	161.0	-4.1	877	0.00
	MP	11806	0	252.6	142.2	-1.1	615	0.00
	Maharashtra	24704	0	547.3	174.3	-1.9	944	0.00
	Goa	615	0	12.6	11.5	0.7	127	0.36
	DD	320	0	4.5	4.4	0.1	25	0.00
	DNH	837	0	13.4	13.4	0.0	109	0.00
SR	AMNSIL	708	0	15.5	9.8	-0.6	232	0.00
	Andhra Pradesh	11825	0	224.9	111.0	-0.7	562	0.04
	Telangana	13195	0	265.9	147.1	0.1	805	0.00
	Karnataka	14818	0	277.5	99.3	-1.2	563	0.00
	Kerala	4006	0	87.1	62.9	-0.9	353	0.00
	Tamil Nadu	16095	0	347.1	242.5	0.0	622	0.00
	Puducherry	358	0	7.9	8.1	-0.3	28	0.00
	ER	Bihar	5257	0	104.7	96.6	0.4	538
DVC		3260	0	69.6	-50.2	-1.1	451	0.00
Jharkhand		1581	0	32.1	23.6	-0.6	197	1.12
Odisha		5217	0	110.1	44.5	-1.5	587	0.00
West Bengal		7078	0	147.1	17.1	-1.8	556	0.00
Sikkim		78	0	1.2	1.4	-0.2	55	0.00
NER	Arunachal Pradesh	114	0	2.3	2.4	-0.2	20	0.00
	Assam	1618	0	28.9	22.6	0.5	140	0.00
	Manipur	185	0	2.6	2.7	-0.1	15	0.00
	Meghalaya	342	0	6.3	5.5	0.0	66	0.00
	Mizoram	107	0	1.6	1.4	-0.3	28	0.00
	Nagaland	149	0	2.6	2.3	0.2	20	0.00
	Tripura	261	0	4.5	3.5	-0.2	26	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.7	-6.6	-20.6
Day Peak (MW)	543.0	-553.0	-875.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	83.3	-221.8	271.5	-138.2	5.2	0.0
Actual(MU)	68.8	-229.4	282.5	-129.7	3.3	-4.4
O/D/U/D(MU)	-14.5	-7.6	11.0	8.5	-1.8	-4.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5131	13380	6362	2581	535	27989	39
State Sector	13024	18203	9263	2550	11	43051	61
Total	18156	31583	15625	5131	546	71040	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	591	1285	570	580	12	3038	73
Lignite	28	12	34	0	0	74	2
Hydro	190	43	90	42	9	375	9
Nuclear	32	33	70	0	0	135	3
Gas, Naptha & Diesel	14	15	8	0	30	67	2
RES (Wind, Solar, Biomass & Others)	152	130	179	5	0	467	11
Total	1006	1518	952	628	51	4155	100

Share of RES in total generation (%)	15.11	8.58	18.78	0.83	0.82	11.23
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	37.11	13.59	35.63	7.59	19.04	23.49

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.058
Based on State Max Demands	1.090

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: 19-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	301	0.0	7.5	-7.5	
2	HVDC	PUSAULI B/B	-	4	0	0.0	0.0	0.0	
3	765 kV	GAYA-VARANASI	2	482	233	1.3	0.0	1.3	
4	765 kV	SASARAM-FATEHPUR	1	40	260	0.0	3.5	-3.5	
5	765 kV	GAYA-BALIA	1	0	365	0.0	7.1	-7.1	
6	400 kV	PUSAULI-VARANASI	1	117	15	0.8	0.0	0.8	
7	400 kV	PUSAULI-ALLAHABAD	1	157	26	1.0	0.0	1.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	213	373	0.0	3.0	-3.0	
9	400 kV	PATNA-BALIA	4	0	584	0.0	21.5	-21.5	
10	400 kV	BIHARSHARIF-BALIA	2	171	188	0.0	0.1	-0.1	
11	400 kV	MOTIHARI-GORAKHPUR	2	217	69	2.4	0.0	2.4	
12	400 kV	BIHARSHARIF-VARANASI	2	161	128	0.0	0.2	-0.2	
13	220 kV	SAHUPURI-KARMANASA	1	0	87	0.0	1.3	-1.3	
14	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARMYAH-RIHAND	1	25	0	0.6	0.0	0.6	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	6.1	44.1	-38.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1029	0	12.6	0.0	12.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	471	320	5.0	0.0	5.0	
3	765 kV	JHARSUGUDA-DURG	2	0	491	0.0	9.6	-9.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	400	0.0	5.3	-5.3	
5	400 kV	RANCHI-SIPAT	2	115	118	0.7	0.0	0.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	107	0.0	1.5	-1.5	
7	220 kV	BUDHIPADAR-KORBA	2	101	4	1.3	0.0	1.3	
						ER-WR	19.5	16.3	3.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	713	0.0	16.2	-16.2	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2478	0.0	50.0	-50.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3199	0.0	61.0	-61.0	
4	400 kV	TALCHER/JC	2	0	633	0.0	4.8	-4.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	127.3	-127.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	269	0.0	5.2	-5.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	345	0.0	5.9	-5.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	78	0.0	1.3	-1.3	
						ER-NER	0.0	12.3	-12.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	404	0.0	9.6	-9.6	
						NER-NR	0.0	9.6	-9.6
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1503	0.0	29.5	-29.5	
2	HVDC	VINDHYACHAL B/B	-	452	0	11.2	0.0	11.2	
3	HVDC	MUNDRU-MOHENDERGARH	2	0	0	0.0	0.0	0.0	
4	765 kV	GWALIOR-AGRA	2	88	1004	0.0	13.2	-13.2	
5	765 kV	GWALIOR-PHAGI	2	770	674	0.0	3.6	-3.6	
6	765 kV	JABALPUR-ORAI	2	63	386	0.0	14.2	-14.2	
7	765 kV	GWALIOR-ORAI	1	536	0	9.2	0.0	9.2	
8	765 kV	SATNA-ORAI	1	0	711	0.0	14.7	-14.7	
9	765 kV	BANASKANTHA-CHITORGARH	2	1377	0	25.2	0.0	25.2	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2304	0.0	45.5	-45.5	
11	400 kV	ZERDA-KANKROLI	1	388	0	6.9	0.0	6.9	
12	400 kV	ZERDA-BHINMAL	1	675	0	11.6	0.0	11.6	
13	400 kV	VINDHYACHAL-RIHAND	1	969	0	21.9	0.0	21.9	
14	400 kV	RAPP-SHUJALPUR	2	615	0	7.3	0.0	7.3	
15	220 kV	BHANSURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANSURA-MORAK	1	0	30	0.0	0.0	0.0	
17	220 kV	MEHGAON-AURAIYA	1	127	0	1.1	0.0	1.1	
18	220 kV	MALANPUR-AURAIYA	1	80	0	2.1	0.0	2.1	
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	96.5	120.6	-24.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	23.3	-23.3	
2	HVDC	RAIGARH-PUGALUR	2	0	6046	0.0	128.5	-128.5	
3	765 kV	SOLAPUR-RAICHUR	2	0	1852	0.0	20.8	-20.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	3202	0.0	52.6	-52.6	
5	400 kV	KOLHAPUR-KUDGI	2	1164	0	21.1	0.0	21.1	
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	2.1	0.0	2.1	
						WR-SR	23.2	225.2	-202.1

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Import(+ve)/Export(-ve)		
					Avg (MW)	Energy Exchange (MU)	
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	222	0	142	3.4	
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW) 220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	234	135	186	4.5	
	NER	132kV GELEPHU-SALAKATI	-10	-1	-7	-0.2	
	NER	132kV MOTANGA-RANGIA	-24	-1	-14	-0.3	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-57	-1.4	
NEPAL	ER	NEPAL IMPORT (FROM BIHAR)	-224	0	-55	-1.3	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-252	-14	-164	-3.9	
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-736	-728	-733	-17.6	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-139	0	-125	-3.0	