



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: 22nd 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 21.03.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-मार्च -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 21st 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: 22-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)	52157	58959	46628	23152	2967	183863
Peak Shortage (MW)	1360	20	0	753	0	2133
Energy Met (MU)	1146	1434	1186	502	52	4320
Hydro Gen (MU)	177	66	107	60	10	420
Wind Gen (MU)	10	69	74	-	-	153
Solar Gen (MU)*	89.22	46.92	106.19	4.96	0.39	248
Energy Shortage (MU)	18.81	0.14	0.00	5.42	0.00	24.37
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54308	63764	57669	23349	3014	196968
Time Of Maximum Demand Met (From NLDC SCADA)	19:09	10:55	11:49	20:41	18:31	11:58

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	0.096	0.27	8.10	13.92	22.29	70.83	6.89

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	7832	0	151.7	59.6	0.0	153	2.50
	Haryana	6984	356	137.3	97.2	1.8	411	8.54
	Rajasthan	13015	0	262.5	66.8	-0.6	543	0.99
	Delhi	4041	0	83.8	71.0	0.1	183	0.00
	UP	20479	0	386.3	174.2	0.2	397	0.00
	Uttarakhand	1788	75	35.9	18.1	1.2	193	2.13
	HP	1537	0	29.5	13.4	1.2	256	0.00
	J&K(UT) & Ladakh(UT)	2532	250	55.1	38.4	2.8	365	4.65
	Chandigarh	203	0	3.9	4.2	-0.3	28	0.00
	Chhattisgarh	4724	0	112.4	56.1	-0.3	208	0.00
WR	Gujarat	18530	0	401.5	202.9	3.0	860	0.00
	MP	12372	0	260.7	141.4	0.5	622	0.00
	Maharashtra	27400	0	600.5	163.3	1.3	668	0.00
	Goa	638	25	14.7	13.0	1.5	130	0.14
	DD	357	0	7.9	7.2	0.7	62	0.00
	DNH	880	0	20.2	19.4	0.8	107	0.00
	AMNSIL	757	0	16.3	10.2	-0.4	257	0.00
SR	Andhra Pradesh	11428	0	224.8	105.7	-0.7	455	0.00
	Telangana	12914	0	261.7	120.9	-0.1	543	0.00
	Karnataka	13660	0	262.0	86.9	-2.0	554	0.00
	Kerala	4173	0	84.5	53.5	-1.3	247	0.00
	Tamil Nadu	16042	0	343.9	216.4	-1.0	441	0.00
	Puducherry	438	0	9.0	9.0	-0.1	28	0.00
ER	Bihar	5433	245	115.2	108.5	0.4	267	2.96
	DVC	3472	0	75.6	-52.4	-1.4	286	0.00
	Jharkhand	1582	354	32.4	25.2	0.5	178	2.46
	Odisha	5443	0	111.8	45.0	-2.0	409	0.00
	West Bengal	8457	0	165.2	30.9	-0.2	435	0.00
NER	Sikkim	106	0	1.6	1.9	-0.3	38	0.00
	Arunachal Pradesh	120	0	2.5	2.4	-0.1	2	0.00
	Assam	1841	0	32.0	26.3	-0.1	139	0.00
	Manipur	194	0	2.7	2.6	0.1	30	0.00
	Meghalaya	353	0	6.5	5.4	0.1	41	0.00
	Mizoram	117	0	1.7	1.5	-0.3	4	0.00
	Nagaland	145	0	2.4	2.3	0.1	20	0.00
	Tripura	282	0	4.5	4.1	-0.1	54	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	9.7	-9.6	-20.8
Day Peak (MW)	608.0	-683.2	-904.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	158.9	-200.3	178.3	-143.7	6.8	0.0
Actual(MU)	154.6	-185.6	163.9	-144.3	4.4	-7.0
O/D/U/D(MU)	-4.3	14.8	-14.4	-0.6	-2.5	-7.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4894	13190	7072	2031	385	27572	43
State Sector	12349	14723	7893	2218	11	37193	57
Total	17244	27912	14965	4249	396	64765	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	628	1404	604	605	13	3253	74
Lignite	26	12	35	0	0	72	2
Hvdro	177	66	107	60	10	420	10
Nuclear	32	33	70	0	0	135	3
Gas, Naptha & Diesel	15	19	9	0	30	73	2
RES (Wind, Solar, Biomass & Others)	130	117	212	5	0	465	11
Total	1008	1650	1036	670	54	4418	100
Share of RES in total generation (%)	12.93	7.11	20.44	0.74	0.73	10.52	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.65	13.08	37.53	9.74	19.66	23.08	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.068

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: 22-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	2	4	0	0.0	0.0	0.0	
3	765 kV	GAYA-VARANASI	2	6	481	0.0	4.8	-4.8	
4	765 kV	SASARAM-FATEHPUR	1	0	358	0.0	5.9	-5.9	
5	765 kV	GAYA-BALIA	1	0	510	0.0	7.8	-7.8	
6	400 kV	PUSAULI-VARANASI	1	2	94	0.0	0.8	-0.8	
7	400 kV	PUSAULI-ALLAHABAD	1	5	106	0.0	1.0	-1.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	60	666	0.0	9.0	-9.0	
9	400 kV	PATNA-BALIA	2	0	525	0.0	14.8	-14.8	
10	400 kV	NAUBATPUR-BALIA	2	0	785	0.0	15.4	-15.4	
11	400 kV	BIHARSHARIFF-BALIA	2	71	324	0.0	2.7	-2.7	
12	400 kV	MOTIHARI-GORAKHPUR	2	238	104	1.6	0.0	1.6	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	242	0.0	2.1	-2.1	
14	220 kV	SINPUR-BIKRAMNASHA	1	0	173	0.0	2.6	-2.6	
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	2.0	67.0	-65.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	997	98	10.9	0.0	10.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1133	382	12.4	0.0	12.4	
3	765 kV	JHARSUGUDA-DURG	2	53	470	0.0	3.7	-3.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	411	0.0	5.4	-5.4	
5	400 kV	RANCHI-SIPAT	2	199	145	1.0	0.0	1.0	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	103	0.0	1.5	-1.5	
7	220 kV	BUDHIPADAR-KORBA	2	78	25	0.5	0.0	0.5	
						ER-WR	24.8	10.6	14.2
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	2475	0.0	47.6	-47.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3177	0.0	50.8	-50.8	
4	400 kV	TALCHER-T/C	2	0	1105	0.0	13.5	-13.5	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	114.6	-114.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	262	0.0	4.4	-4.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	407	0.0	6.4	-6.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	84	0.0	1.3	-1.3	
						ER-NER	0.0	12.1	-12.1
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	1513	0.0	36.0	-36.0	
2	HVDC	VINDHYACHAL B/B	2	449	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0	
4	765 kV	GWALIOR-AGRA	2	5	1956	0.0	29.5	-29.5	
5	765 kV	GWALIOR-PHAGI	2	0	1401	0.0	20.1	-20.1	
6	765 kV	JABALPUR-ORAI	2	0	955	0.0	28.5	-28.5	
7	765 kV	GWALIOR-ORAI	1	743	0	12.5	0.0	12.5	
8	765 kV	SATNA-ORAI	1	0	969	0.0	18.4	-18.4	
9	765 kV	BANASKANTHA-CHITORGARH	2	1824	0	29.1	0.0	29.1	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2637	0.0	43.1	-43.1	
11	400 kV	ZERDA-KANKROLI	1	340	0	5.9	0.0	5.9	
12	400 kV	ZERDA-BHINMAL	1	516	0	7.9	0.0	7.9	
13	400 kV	VINDHYACHAL-RIHAND	1	982	0	22.4	0.0	22.4	
14	400 kV	RAPP-SHILAI PUR	2	295	253	1.2	1.3	-0.1	
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	129	0	0.8	0.0	0.8	
18	220 kV	MALANPUR-AURAIYA	1	83	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	93.5	176.8	-83.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	518	0.0	12.0	-12.0	
2	HVDC	RAIGARH-PUGALUR	2	0	6022	0.0	60.2	-60.2	
3	765 kV	SOLAPUR-RAICHUR	2	507	1869	1.2	8.5	-7.3	
4	765 kV	WARDHA-NIZAMABAD	2	0	2895	0.0	39.0	-39.0	
5	400 kV	KOLHAPUR-KUDCI	2	1595	0	28.0	0.0	28.0	
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	0	131	2.5	0.0	2.5	
						WR-SR	31.7	119.7	-88.1
INTERNATIONAL EXCHANGES									
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)			
BHUTAN	ER	400KV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	187	0	158	3.8			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	351	0	240	5.8			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	96	0	40	1.0			
	NER	132KV GELEPHU-SALAKATI	0	0	-8	-0.2			
	NER	132KV MOTANGA-RANGIA	0	0	-25	-0.6			
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-55	-1.3			
	ER	NEPAL IMPORT (FROM BIHAR)	-323	-202	-268	-6.4			
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	-284	0	-79	-1.9			
	NER	BHERAMARA B/B HVDC (BANGLADESH)	-747	-729	-732	-17.6			
		132KV COMILLA-SURAJMANJANAGAR 1&2	-157	0	-135	-3.2			