National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर 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: 23rd 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., डोंगतिएह, 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 22.03.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-मार्च -2022 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 22nd 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:** **23-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)	51970	58585	47820	23941	2957	185273
Peak Shortage (MW)	1050	40	0	781	0	1871
Energy Met (MU)	1143	1436	1190	516	53	4338
Hydro Gen (MU)	170	75	117	49	10	421
Wind Gen (MU)	30	68	49	-	-	146
Solar Gen (MU)*	92.59	43.80	85.24	5.18	0.36	227
Energy Shortage (MU)	22.54	1.36	4.09	7.04	0.28	35.31
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54152	63626	57169	24211	3038	194496
Time Of Maximum Demand Met (From NLDC SCADA)	19:19	10:52	12:56	19:53	18:18	11:12

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	0.197	4.54	11.34	24.82	40.70	56.01	3.29

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	7303	0	147.6	57.8	-1.4	113	6.35
	Haryana	7071	0	140.3	89.6	0.7	195	8.83
	Rajasthan	12877	0	265.6	50.1	-2.0	247	0.00
	Delhi	3954	0	83.8	70.7	0.0	157	0.00
	UP	20479	0	383.6	172.9	1.5	1074	0.00
	Uttarakhand	1888	0	36.6	18.3	2.0	254	2.71
	HP	1567	0	30.2	14.0	-0.1	237	0.00
	J&K(UT) & Ladakh(UT)	2350	250	51.6	37.9	2.5	301	4.65
	Chandigarh	200	0	3.9	4.2	-0.2	26	0.00
WR	Chhattisgarh	4710	0	114.5	60.2	0.0	252	0.00
	Gujarat	17922	0	400.5	199.0	-0.8	802	0.00
	MP	12287	0	258.4	142.3	1.3	987	0.00
	Maharashtra	27658	0	605.0	168.7	1.4	1133	0.00
	Goa	632	0	13.1	11.8	1.3	136	1.36
	DD	351	0	7.8	7.3	0.5	76	0.00
	DNH	877	0	20.4	20.4	0.0	53	0.00
	AMNSIL	774	0	16.2	9.9	-0.2	235	0.00
SR	Andhra Pradesh	11233	0	217.6	93.0	1.8	876	3.50
	Telangana	13316	0	265.5	129.3	1.2	580	0.00
	Karnataka	13125	0	255.3	81.0	-0.8	747	0.00
	Kerala	4329	0	87.7	55.0	-1.7	167	0.00
	Tamil Nadu	16162	0	355.3	227.7	2.2	878	0.59
	Puducherry	436	0	8.8	9.0	-0.2	66	0.00
ER	Bihar	5852	0	117.2	108.2	2.2	294	3.68
	DVC	3640	0	75.1	-57.8	-1.1	276	0.00
	Jharkhand	1533	0	31.9	23.0	0.5	177	3.36
	Odisha	5521	0	114.2	41.8	-2.5	402	0.00
	West Bengal	8818	0	175.5	43.3	2.1	362	0.00
	Sikkim	93	0	1.7	1.6	0.1	37	0.00
NER	Arunachal Pradesh	131	0	2.5	2.4	0.0	26	0.00
	Assam	1857	0	32.5	27.6	-0.5	124	0.28
	Manipur	191	0	2.6	2.6	0.0	16	0.00
	Meghalaya	363	0	6.6	5.4	0.1	49	0.00
	Mizoram	117	0	1.7	1.5	-0.3	4	0.00
	Nagaland	146	0	2.5	2.3	0.2	21	0.00
	Tripura	283	0	4.7	4.1	0.1	69	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.6	3.1	-20.9
Day Peak (MW)	486.0	-35.1	-892.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	131.3	-189.7	182.6	-132.0	7.8	0.0
Actual(MU)	120.7	-186.1	180.4	-128.3	5.9	-7.5
O/D/U/D(MU)	-10.6	3.6	-2.3	3.7	-1.9	-7.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4874	13690	6612	2031	520	27727	43
State Sector	12619	14991	7263	2108	11	36991	57
Total	17494	28680	13875	4139	531	64718	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	642	1398	625	611	13	3290	74
Lignite	28	10	34	0	0	71	2
Hydro	170	75	117	49	10	421	10
Nuclear	32	33	70	0	0	134	3
Gas, Naptha & Diesel	16	18	9	0	29	72	2
RES (Wind, Solar, Biomass & Others)	155	113	168	5	0	441	10
Total	1042	1646	1023	665	53	4430	100

Share of RES in total generation (%)	14.87	6.84	16.44	0.79	0.68	9.96
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.19	13.42	34.69	8.12	20.30	22.50

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.040
Based on State Max Demands	1.080

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: 23-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	223	231	0.0	1.4	-1.4
4	765 kV	SASARAM-FATEHPUR	1	0	288	0.0	5.0	-5.0
5	765 kV	GAYA-BALIA	1	0	463	0.0	7.6	-7.6
6	400 kV	PUSAULI-VARANASI	1	0	70	0.0	0.7	-0.7
7	400 kV	PUSAULI -ALLAHABAD	1	46	73	0.0	0.3	-0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	314	498	0.0	5.3	-5.3
9	400 kV	PATNA-BALIA	2	0	635	0.0	13.2	-13.2
10	400 kV	NAUBATPUR-BALIA	2	0	723	0.0	14.7	-14.7
11	400 kV	BIHARSHARIFF-BALIA	2	229	178	0.0	1.0	-1.0
12	400 kV	MOTIHARI-GORAKHPUR	2	360	84	3.2	0.0	3.2
13	400 kV	BIHARSHARIFF-VARANASI	2	33	145	0.0	1.8	-1.8
14	220 kV	SAHUPURI-KARAMNASA	1	0	137	0.0	1.6	-1.6
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	20	0.0	0.0	0.0
					ER-NR	3.6	52.5	-48.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	925	10	10.1	0.0	10.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1102	115	14.1	0.0	14.1
3	765 kV	JHARSUGUDA-DURG	2	15	445	0.0	4.0	-4.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	425	0.0	5.7	-5.7
5	400 kV	RANCHI-SIPAT	2	198	105	1.6	0.0	1.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	131	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	85	45	0.5	0.0	0.5
					ER-WR	26.3	11.5	14.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	711	0.0	16.2	-16.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2467	0.0	45.5	-45.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2735	0.0	51.7	-51.7
4	400 kV	TALCHER-I/C	2	0	1100	0.0	11.8	-11.8
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	10	308	0.0	4.8	-4.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	503	0.0	7.5	-7.5
3	220 kV	ALIPURDUAR-SALAKATI	2	0	96	0.0	1.5	-1.5
					ER-NER	0.0	13.8	-13.8
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	1509	0.0	37.1	-37.1
2	HVDC	VINDHYACHAL B/B	-	447	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	252	0.0	5.0	-5.0
4	765 kV	GWALIOR-AGRA	2	0	1732	0.0	22.8	-22.8
5	765 kV	GWALIOR-PHAGI	2	248	967	0.4	13.8	-13.4
6	765 kV	JABALPUR-ORAI	2	0	838	0.0	24.7	-24.7
7	765 kV	GWALIOR-ORAI	1	574	0	10.6	0.0	10.6
8	765 kV	SATNA-ORAI	1	0	892	0.0	18.0	-18.0
9	765 kV	BANASKANTHA-CHITORGARH	2	2142	0	30.8	0.0	30.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2537	0.0	45.9	-45.9
11	400 kV	ZERDA-KANKROLI	1	438	0	7.0	0.0	7.0
12	400 kV	ZERDA -BHINMAL	1	671	0	11.5	0.0	11.5
13	400 kV	VINDHYACHAL -RIHAND	1	977	0	22.5	0.0	22.5
14	400 kV	RAPP-SHUJALPUR	2	512	120	4.3	0.2	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	120	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	80	0	1.7	0.0	1.7
19	132 kV	GWALIOR-SAWAI MADHOPUR	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	101.8	167.5	-65.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	16.1	-16.1
2	HVDC	RAIGARH-PUGALUR	2	0	6022	0.0	65.2	-65.2
3	765 kV	SOLAPUR-RAICHUR	2	501	1267	0.2	10.8	-10.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2770	0.0	42.7	-42.7
5	400 kV	KOLHAPUR-KUDGI	2	1426	0	26.0	0.0	26.0
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	133	2.6	0.0	2.6
					WR-SR	28.8	134.7	-105.9

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 MANGDECHU HEP 4*180MW)	186	0	139	3.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	220	200	213	5.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	58	33	40	1.0
	NER	132kV GELEPHU-SALAKATI	-12	0	-7	-0.2
	NER	132kV MOTANGA-RANGIA	-37	0	-25	-0.6
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-69	0	-45	-1.1
	ER	NEPAL IMPORT (FROM BIHAR)	345	14	245	5.9
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-311	0	-72	-1.7
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-731	-727	-729	-17.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-161	0	-140	-3.4