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: 28th 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 27.03.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-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 27th 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:** **28-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)	47486	56460	43631	23023	2638	173238
Peak Shortage (MW)	258	10	0	394	0	662
Energy Met (MU)	1092	1399	1149	506	45	4192
Hydro Gen (MU)	153	43	89	42	11	337
Wind Gen (MU)	11	64	24	-	-	99
Solar Gen (MU)*	97.04	47.77	102.56	4.69	0.40	252
Energy Shortage (MU)	5.65	2.37	0.00	1.91	0.00	9.93
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52263	60612	56305	23764	2642	185065
Time Of Maximum Demand Met (From NLDC SCADA)	19:40	10:52	11:57	21:01	18:38	10:51

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	0.032	0.00	0.02	3.28	3.30	70.69	26.02

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	7490	0	151.5	64.4	-1.7	184	0.20
	Haryana	6265	0	130.7	89.7	-1.8	115	0.00
	Rajasthan	12189	0	249.6	61.8	-4.5	128	0.00
	Delhi	3558	0	77.4	65.0	-1.7	88	0.00
	UP	19895	0	366.8	133.7	2.2	676	0.00
	Uttarakhand	1799	0	38.2	25.1	0.8	120	0.16
	HP	1419	19	28.0	12.4	-0.9	179	0.64
	J&K(UT) & Ladakh(UT)	2064	0	46.1	29.7	5.4	588	4.65
	Chandigarh	186	0	3.5	4.4	-0.9	4	0.00
WR	Chhattisgarh	4876	0	117.2	60.2	-0.4	211	0.00
	Gujarat	17368	0	392.1	206.6	-4.3	370	0.00
	MP	12085	0	253.0	145.7	-3.2	296	0.00
	Maharashtra	25931	0	583.0	180.0	0.2	741	0.00
	Goa	620	0	11.4	11.0	0.1	203	0.69
	DD	328	0	7.5	7.3	0.2	77	0.00
	DNH	730	80	18.0	17.0	1.0	91	1.68
	AMNSIL	757	0	17.0	10.4	-0.1	236	0.00
SR	Andhra Pradesh	11934	0	230.7	103.3	0.5	460	0.00
	Telangana	13539	0	243.4	109.9	-1.4	708	0.00
	Karnataka	12624	0	245.2	66.0	-0.3	618	0.00
	Kerala	3841	0	80.1	56.3	0.0	187	0.00
	Tamil Nadu	15282	0	341.2	234.6	0.9	675	0.00
	Puducherry	395	0	8.4	8.6	-0.2	48	0.00
ER	Bihar	5791	0	110.7	104.4	0.3	251	0.16
	DVC	3563	0	75.6	-53.5	-1.1	170	0.00
	Jharkhand	1507	152	31.7	23.2	-0.2	486	1.75
	Odisha	5577	0	112.9	55.1	-3.1	953	0.00
	West Bengal	8375	0	174.0	40.7	-0.4	309	0.00
	Sikkim	88	0	1.3	1.1	0.2	54	0.00
NER	Arunachal Pradesh	135	0	2.2	2.5	-0.4	18	0.00
	Assam	1598	0	26.6	20.6	0.2	92	0.00
	Manipur	180	0	2.1	2.4	-0.2	24	0.00
	Meghalaya	333	0	6.1	3.7	-0.1	38	0.00
	Mizoram	96	0	1.5	1.3	-0.3	10	0.00
	Nagaland	136	0	2.2	2.0	0.1	19	0.00
	Tripura	249	0	4.4	2.9	-0.3	20	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.1	-8.3	-24.5
Day Peak (MW)	346.0	-559.9	-1032.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	105.9	-168.8	168.5	-104.4	-1.2	0.0
Actual(MU)	94.0	-168.0	178.1	-105.7	-3.7	-5.3
O/D/U/D(MU)	-11.8	0.7	9.6	-1.4	-2.4	-5.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3940	11088	6278	1366	495	23166	41
State Sector	10549	14001	5962	3138	11	33660	59
Total	14490	25088	12240	4504	506	56827	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	652	1388	634	597	12	3283	76
Lignite	20	8	45	0	0	73	2
Hydro	153	43	89	42	11	337	8
Nuclear	32	33	47	0	0	112	3
Gas, Naptha & Diesel	19	17	9	0	30	74	2
RES (Wind, Solar, Biomass & Others)	141	113	165	5	0	425	10
Total	1017	1601	989	644	53	4304	100

Share of RES in total generation (%)	13.91	7.07	16.69	0.74	0.75	9.87
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.04	11.78	30.50	7.23	21.37	20.31

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.057
Based on State Max Demands	1.096

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: 28-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	181	358	0.0	3.1	-3.1
4	765 kV	SASARAM-FATEHPUR	1	0	194	0.0	3.1	-3.1
5	765 kV	GAYA-BALIA	1	0	710	0.0	12.6	-12.6
6	400 kV	PUSAULI-VARANASI	1	69	0	0.9	0.0	0.9
7	400 kV	PUSAULI -ALLAHABAD	1	82	40	0.6	0.0	0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	205	339	0.0	2.9	-2.9
9	400 kV	PATNA-BALIA	2	0	566	0.0	10.2	-10.2
10	400 kV	NAUBATPUR-BALIA	2	0	627	0.0	11.2	-11.2
11	400 kV	BIHARSHARIFF-BALIA	2	90	251	0.0	2.4	-2.4
12	400 kV	MOTIHARI-GORAKHPUR	2	309	0	4.3	0.0	4.3
13	400 kV	BIHARSHARIFF-VARANASI	2	99	185	0.0	1.9	-1.9
14	220 kV	SAHUPURI-KARAMNASA	1	12	141	0.0	1.8	-1.8
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3
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	6.3	49.1	-42.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	691	0	9.7	0.0	9.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1109	121	10.8	0.0	10.8
3	765 kV	JHARSUGUDA-DURG	2	55	365	0.0	3.4	-3.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	553	0.0	6.5	-6.5
5	400 kV	RANCHI-SIPAT	2	230	104	1.1	0.0	1.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	212	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	100	48	0.7	0.0	0.7
					ER-WR	22.2	12.2	10.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	709	0.0	16.2	-16.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1992	0.0	44.4	-44.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2936	0.0	52.9	-52.9
4	400 kV	TALCHER-I/C	2	423	200	0.8	0.0	0.8
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	135	186	0.0	1.8	-1.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	203	302	0.0	2.3	-2.3
3	220 kV	ALIPURDUAR-SALAKATI	2	34	57	0.0	0.4	-0.4
					ER-NER	0.0	4.6	-4.6
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	1	0.0	0.0	0.0
2	HVDC	VINDHYACHAL B/B	-	445	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	253	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	1738	0.0	22.5	-22.5
5	765 kV	GWALIOR-PHAGI	2	47	1350	0.0	17.9	-17.9
6	765 kV	JABALPUR-ORAI	2	0	710	0.0	20.5	-20.5
7	765 kV	GWALIOR-ORAI	1	728	0	12.7	0.0	12.7
8	765 kV	SATNA-ORAI	1	0	948	0.0	18.2	-18.2
9	765 kV	BANASKANTHA-CHITORGARH	2	1742	0	24.2	0.0	24.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	3044	0.0	50.9	-50.9
11	400 kV	ZERDA-KANKROLI	1	350	0	5.9	0.0	5.9
12	400 kV	ZERDA -BHINMAL	1	540	0	7.7	0.0	7.7
13	400 kV	VINDHYACHAL -RIHAND	1	976	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	0	79	3.7	0.0	3.7
15	220 kV	BHANPURA-RANPUR	1	34	0	1.5	0.0	1.5
16	220 kV	BHANPURA-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	84	0	1.8	0.0	1.8
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	92.7	136.2	-43.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	24.1	-24.1
2	HVDC	RAIGARH-PUGALUR	2	0	3512	0.0	59.1	-59.1
3	765 kV	SOLAPUR-RAICHUR	2	136	1523	0.0	15.0	-14.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2720	0.0	37.4	-37.4
5	400 kV	KOLHAPUR-KUDGI	2	1222	0	22.8	0.0	22.8
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	1	119	0.0	1.6	-1.6
					WR-SR	22.8	137.2	-114.3

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 MANGDECHU HEP 4*180MW)	130	0	80	1.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	185	0	166	4.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	40	0	18	0.4
	NER	132kV GELEPHU-SALAKATI	8	-5	1	0.0
	NER	132kV MOTANGA-RANGIA	-18	4	-9	-0.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-70	0	-60	-1.5
	ER	NEPAL IMPORT (FROM BIHAR)	-331	-22	-176	-4.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-159	-50	-110	-2.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-936	-738	-927	-22.2
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-96	0	-96	-2.3