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: 29th 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 28.03.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28th 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:** **29-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)	49350	59661	47566	24194	2559	183330
Peak Shortage (MW)	590	120	0	703	0	1413
Energy Met (MU)	1141	1434	1195	514	46	4330
Hydro Gen (MU)	159	58	88	43	10	359
Wind Gen (MU)	21	100	21	-	-	141
Solar Gen (MU)*	99.22	49.42	110.52	5.45	0.29	265
Energy Shortage (MU)	6.25	2.57	0.00	4.87	0.00	13.69
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53658	62766	59518	24953	2588	196135
Time Of Maximum Demand Met (From NLDC SCADA)	19:28	15:44	11:58	19:59	18:12	10:48

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	0.051	0.00	1.10	12.23	13.33	71.11	15.55

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	7280	0	155.6	63.6	-1.3	194	0.00
	Haryana	6917	0	140.8	96.3	0.1	276	0.00
	Rajasthan	12391	0	251.3	45.8	-5.0	372	0.00
	Delhi	4025	0	84.7	73.0	-0.9	102	0.00
	UP	19084	352	388.7	156.8	0.6	966	1.60
	Uttarakhand	1990	0	40.9	26.9	0.8	176	0.00
	HP	1518	0	29.3	12.7	-1.4	182	0.00
	J&K(UT) & Ladakh(UT)	2164	250	45.2	30.0	4.8	484	4.65
	Chandigarh	206	0	4.0	4.9	-0.9	22	0.00
WR	Chhattisgarh	4917	0	116.3	54.4	-0.3	225	0.00
	Gujarat	18762	0	412.5	201.8	-0.9	580	0.00
	MP	12265	0	254.4	137.7	-4.6	422	0.00
	Maharashtra	27202	0	594.6	187.3	-3.2	1258	0.05
	Goa	687	0	14.5	14.1	0.0	63	0.00
	DD	346	0	7.6	7.2	0.4	112	0.00
	DNH	765	120	17.7	17.1	0.6	126	2.52
	AMNSIL	779	0	16.0	10.2	-1.0	294	0.00
SR	Andhra Pradesh	12032	0	234.6	107.9	1.8	702	0.00
	Telangana	13857	0	251.3	116.5	-0.6	589	0.00
	Karnataka	13761	0	257.9	75.9	2.9	1293	0.00
	Kerala	3835	0	77.9	57.5	-0.7	213	0.00
	Tamil Nadu	17063	0	364.5	248.7	0.5	556	0.00
	Puducherry	423	0	8.9	9.0	-0.2	38	0.00
ER	Bihar	5649	386	111.8	104.6	0.7	297	2.04
	DVC	4105	0	74.3	-49.8	-1.9	290	0.00
	Jharkhand	1563	0	31.9	23.8	-0.5	182	2.83
	Odisha	5832	0	115.9	54.9	-1.4	384	0.00
	West Bengal	8687	0	178.3	45.1	-0.4	321	0.00
	Sikkim	113	0	1.7	1.6	0.1	36	0.00
NER	Arunachal Pradesh	143	0	2.1	2.4	-0.4	19	0.00
	Assam	1545	0	27.8	22.3	-0.2	59	0.00
	Manipur	193	0	2.6	2.5	0.1	33	0.00
	Meghalaya	344	0	6.3	3.9	0.0	34	0.00
	Mizoram	110	0	1.5	1.4	-0.4	7	0.00
	Nagaland	141	0	2.3	2.2	0.0	19	0.00
	Tripura	211	0	3.8	3.0	-0.4	60	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.8	-8.1	-25.0
Day Peak (MW)	320.0	-631.2	-1052.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	118.7	-208.3	195.1	-106.9	1.4	0.0
Actual(MU)	103.9	-204.1	196.5	-104.6	-0.4	-8.7
O/D/U/D(MU)	-14.8	4.2	1.4	2.2	-1.8	-8.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3688	11088	6278	1866	520	23440	40
State Sector	10269	13966	6642	3638	11	34525	60
Total	13957	25053	12920	5504	531	57965	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	679	1405	659	610	12	3365	75
Lignite	19	11	45	0	0	76	2
Hydro	159	58	88	43	10	359	8
Nuclear	32	33	47	0	0	112	3
Gas, Naptha & Diesel	20	18	8	0	30	76	2
RES (Wind, Solar, Biomass & Others)	153	150	165	5	0	474	11
Total	1062	1676	1012	658	52	4461	100

Share of RES in total generation (%)	14.41	8.96	16.32	0.83	0.55	10.63
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.39	14.40	29.66	7.40	20.05	21.18

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
Based on State Max Demands	1.075

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: 29-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	113	251	0.0	2.0	-2.0
4	765 kV	SASARAM-FATEHPUR	1	0	285	0.0	4.0	-4.0
5	765 kV	GAYA-BALIA	1	0	651	0.0	12.9	-12.9
6	400 kV	PUSAULI-VARANASI	1	64	48	0.3	0.0	0.3
7	400 kV	PUSAULI -ALLAHABAD	1	48	83	0.0	0.1	-0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	274	346	0.0	2.8	-2.8
9	400 kV	PATNA-BALIA	2	0	655	0.0	10.4	-10.4
10	400 kV	NAUBATPUR-BALIA	2	0	590	0.0	11.3	-11.3
11	400 kV	BIHARSHARIFF-BALIA	2	107	231	0.0	2.3	-2.3
12	400 kV	MOTIHARI-GORAKHPUR	2	348	0	4.4	0.0	4.4
13	400 kV	BIHARSHARIFF-VARANASI	2	46	149	0.0	1.6	-1.6
14	220 kV	SAHUPURI-KARAMNASA	1	0	145	0.0	2.3	-2.3
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	5.0	49.7	-44.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	856	0	8.9	0.0	8.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	951	0	12.4	0.0	12.4
3	765 kV	JHARSUGUDA-DURG	2	15	268	0.0	3.5	-3.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	304	0.0	4.8	-4.8
5	400 kV	RANCHI-SIPAT	2	169	33	1.7	0.0	1.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	130	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	210	0	2.4	0.0	2.4
					ER-WR	25.3	10.4	14.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	710	0.0	16.2	-16.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1990	0.0	45.7	-45.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2844	0.0	49.8	-49.8
4	400 kV	TALCHER-I/C	2	429	156	0.0	0.5	-0.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	111.7	-111.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	96	245	0.0	2.9	-2.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	131	397	0.0	4.2	-4.2
3	220 kV	ALIPURDUAR-SALAKATI	2	19	86	0.0	0.8	-0.8
					ER-NER	0.0	8.0	-8.0
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	-	448	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	252	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	1444	0.0	24.3	-24.3
5	765 kV	GWALIOR-PHAGI	2	221	1016	0.5	12.7	-12.2
6	765 kV	JABALPUR-ORAI	2	0	604	0.0	19.8	-19.8
7	765 kV	GWALIOR-ORAI	1	700	0	10.7	0.0	10.7
8	765 kV	SATNA-ORAI	1	0	870	0.0	17.7	-17.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1225	0	19.0	0.0	19.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2728	0.0	55.9	-55.9
11	400 kV	ZERDA-KANKROLI	1	340	0	5.9	0.0	5.9
12	400 kV	ZERDA -BHINMAL	1	504	0	8.4	0.0	8.4
13	400 kV	VINDHYACHAL -RIHAND	1	965	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	497	59	2.9	0.7	2.2
15	220 kV	BHANPURA-RANPUR	1	99	8	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	108	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	66	0	1.5	0.0	1.5
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	85.3	137.2	-51.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1023	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	5012	0.0	86.3	-86.3
3	765 kV	SOLAPUR-RAICHUR	2	385	1401	0.1	13.6	-13.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2518	0.0	37.2	-37.2
5	400 kV	KOLHAPUR-KUDGI	2	1196	0	21.4	0.0	21.4
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	126	2.2	0.0	2.2
					WR-SR	23.8	161.1	-137.3

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)	125	0	92	2.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	173	0	152	3.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	48	0	12	0.3
	NER	132kV GELEPHU-SALAKATI	-7	3	-2	0.0
	NER	132kV MOTANGA-RANGIA	-16	-1	-14	-0.3
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-81	0	-62	-1.5
	ER	NEPAL IMPORT (FROM BIHAR)	-274	-19	-151	-3.6
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-276	0	-125	-3.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-927	-917	-923	-22.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-125	0	-119	-2.9