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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 20th Feb 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 19.02.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-फ़रवरी-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 19th February 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:** **20-Feb-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)	51560	56446	43256	20323	2611	174196
Peak Shortage (MW)	250	0	0	461	0	711
Energy Met (MU)	1059	1345	1081	417	47	3948
Hydro Gen (MU)	110	51	85	27	8	281
Wind Gen (MU)	10	87	49	-	-	146
Solar Gen (MU)*	86.32	42.62	113.04	5.04	0.39	247
Energy Shortage (MU)	4.71	0.00	0.00	2.83	0.00	7.54
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52637	64523	53427	20453	2743	189696
Time Of Maximum Demand Met (From NLDC SCADA)	10:45	10:27	09:49	19:14	18:08	10:41

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	0.030	0.00	0.00	4.27	4.27	76.84	18.89

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	7091	0	138.2	44.3	-0.6	106	0.00
	Haryana	6768	0	130.2	78.6	-0.6	97	0.00
	Rajasthan	14957	0	278.5	85.6	2.7	398	0.00
	Delhi	3560	0	61.0	50.1	-1.6	171	0.00
	UP	17806	0	315.2	96.4	-1.4	515	0.00
	Uttarakhand	2060	0	39.4	26.7	0.4	170	0.06
	HP	1950	0	33.8	25.5	0.2	209	0.00
	J&K(UT) & Ladakh(UT)	2960	300	59.7	54.4	-0.8	186	4.65
	Chandigarh	207	0	3.2	3.7	-0.5	0	0.00
WR	Chhattisgarh	4358	0	96.1	29.5	-0.6	215	0.00
	Gujarat	17117	0	368.7	182.0	-0.8	936	0.00
	MP	14510	0	287.5	174.0	-1.6	536	0.00
	Maharashtra	26043	0	533.8	159.7	-1.3	767	0.00
	Goa	600	0	12.0	11.7	0.1	36	0.00
	DD	348	0	7.8	7.4	0.4	96	0.00
	DNH	864	0	19.9	19.8	0.1	47	0.00
	AMNSIL	895	0	19.5	4.6	-0.9	229	0.00
SR	Andhra Pradesh	10208	0	201.5	71.2	1.1	620	0.00
	Telangana	11852	0	221.8	96.4	0.1	697	0.00
	Karnataka	13828	0	257.5	96.5	-0.4	519	0.00
	Kerala	3893	0	80.5	56.2	0.2	279	0.00
	Tamil Nadu	14758	0	311.9	178.6	-2.1	626	0.00
	Puducherry	367	0	7.6	7.8	-0.4	29	0.00
ER	Bihar	4739	0	81.4	70.2	-0.3	347	1.02
	DVC	3193	0	68.9	-46.6	-1.1	284	0.00
	Jharkhand	1475	0	31.2	19.9	1.4	143	1.82
	Odisha	5972	0	112.0	48.9	0.4	372	0.00
	West Bengal	6359	0	121.3	-4.5	-0.3	369	0.00
	Sikkim	115	0	1.8	2.0	-0.2	25	0.00
NER	Arunachal Pradesh	153	0	2.6	2.7	-0.1	24	0.00
	Assam	1513	0	25.6	19.2	0.0	96	0.00
	Manipur	240	0	3.3	3.4	0.0	39	0.00
	Meghalaya	371	0	7.1	6.0	0.0	42	0.00
	Mizoram	138	0	2.0	1.9	-0.2	20	0.00
	Nagaland	148	0	2.3	2.2	0.1	23	0.00
	Tripura	219	0	3.6	1.9	-0.5	11	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.4	-8.6	-18.6
Day Peak (MW)	-293.0	-547.6	-824.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	170.1	-170.9	119.6	-120.6	1.8	0.0
Actual(MU)	151.9	-156.7	123.4	-127.1	1.1	-7.4
O/D/U/D(MU)	-18.2	14.2	3.8	-6.6	-0.6	-7.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7653	13320	6492	3331	732	31528	45
State Sector	10394	17233	8093	2460	11	38191	55
Total	18047	30552	14585	5791	743	69718	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	618	1295	568	555	14	3049	75
Lignite	22	14	44	0	0	80	2
Hydro	110	51	85	27	8	281	7
Nuclear	33	21	66	0	0	119	3
Gas, Naptha & Diesel	15	16	10	0	27	68	2
RES (Wind, Solar, Biomass & Others)	124	131	196	5	0	457	11
Total	922	1528	969	587	50	4055	100

Share of RES in total generation (%)	13.45	8.57	20.27	0.86	0.79	11.27
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.96	13.31	35.83	5.40	16.92	21.15

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
Based on State Max Demands	1.063

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: 20-Feb-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	0	743	0.0	10.1	-10.1
4	765 kV	SASARAM-FATEHPUR	1	0	486	0.0	8.8	-8.8
5	765 kV	GAYA-BALIA	1	0	605	0.0	10.1	-10.1
6	400 kV	PUSAULI-VARANASI	1	10	102	0.0	1.2	-1.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	167	0.0	1.8	-1.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	29	704	0.0	8.2	-8.2
9	400 kV	PATNA-BALIA	4	0	1283	0.0	21.9	-21.9
10	400 kV	BIHARSHARIFF-BALIA	2	0	519	0.0	6.2	-6.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	453	0.0	6.6	-6.6
12	400 kV	BIHARSHARIFF-VARANASI	2	0	345	0.0	4.8	-4.8
13	220 kV	SAHUPURI-KARAMNASA	1	35	128	0.0	1.4	-1.4
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
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	0.4	81.0	-80.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	850	0	12.6	0.0	12.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	291	851	0.0	8.1	-8.1
3	765 kV	JHARSUGUDA-DURG	2	90	225	0.0	2.1	-2.1
4	400 kV	JHARSUGUDA-RAIGARH	4	36	354	0.0	4.1	-4.1
5	400 kV	RANCHI-SIPAT	2	98	227	0.0	1.9	-1.9
6	220 kV	BUDHIPADAR-RAIGARH	1	15	128	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	115	0	1.7	0.0	1.7
					ER-WR	14.3	17.1	-2.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	447	0.0	9.9	-9.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1980	0.0	36.7	-36.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2721	0.0	52.3	-52.3
4	400 kV	TALCHER-I/C	2	749	226	9.0	0.0	9.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	98.9	-98.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	299	64	3.2	0.1	3.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	363	3	5.3	0.0	5.3
3	220 kV	ALIPURDUAR-SALAKATI	2	67	1	1.0	0.0	1.0
					ER-NER	9.5	0.1	9.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	470	0	10.8	0.0	10.8
					NER-NR	10.8	0.0	10.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1001	0.0	23.9	-23.9
2	HVDC	VINDHYACHAL B/B	-	452	51	5.9	0.5	5.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	253	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	1797	0.0	23.0	-23.0
5	765 kV	GWALIOR-PHAGI	2	0	1724	0.0	27.4	-27.4
6	765 kV	JABALPUR-ORAI	2	0	853	0.0	22.6	-22.6
7	765 kV	GWALIOR-ORAI	1	967	0	15.7	0.0	15.7
8	765 kV	SATNA-ORAI	1	0	934	0.0	18.2	-18.2
9	765 kV	BANASKANTHA-CHITORGARH	2	1891	0	25.6	0.0	25.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2477	0.0	36.9	-36.9
11	400 kV	ZERDA-KANKROLI	1	372	0	5.1	0.0	5.1
12	400 kV	ZERDA -BHINMAL	1	482	135	5.0	0.0	5.0
13	400 kV	VINDHYACHAL -RIHAND	1	485	0	11.0	0.0	11.0
14	400 kV	RAPP-SHUJALPUR	2	415	317	2.3	1.5	0.7
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	126	0	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	82	0	1.9	0.0	1.9
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	73.6	160.1	-86.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	265	0.0	6.2	-6.2
2	HVDC	RAIGARH-PUGALUR	2	0	2500	0.0	23.2	-23.2
3	765 kV	SOLAPUR-RAICHUR	2	858	2034	1.1	20.6	-19.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2772	0.0	45.5	-45.5
5	400 kV	KOLHAPUR-KUDGI	2	1372	0	20.3	0.0	20.3
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	74	1.4	0.0	1.4
					WR-SR	22.8	95.5	-72.7

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)	143	0	27	0.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	0	0	0	0.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	0.0
	NER	132kV GELEPHU-SALAKATI	-15	0	-8	-0.2
	NER	132kV MOTANGA-RANGIA	13	0	3	0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-80	0	-67	-1.6
	ER	NEPAL IMPORT (FROM BIHAR)	-138	0	-48	-1.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-330	2	-244	-5.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-732	-591	-700	-16.8
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-92	0	-74	-1.8