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: 21st May 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 20.05.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-मई-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 20th May 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:** **21-May-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 20:00 hrs; from RLDCs)	65181	58597	41686	23731	2495	191690
Peak Shortage (MW)	70	0	0	209	0	279
Energy Met (MU)	1530	1419	931	529	43	4452
Hydro Gen (MU)	255	27	64	66	30	442
Wind Gen (MU)	64	182	153	-	-	399
Solar Gen (MU)*	96.94	48.87	89.02	5.24	0.37	240
Energy Shortage (MU)	19.47	0.00	0.00	2.58	0.00	22.05
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	69341	63069	42218	24283	2569	198003
Time Of Maximum Demand Met (From NLDC SCADA)	14:46	15:26	12:35	22:26	18:53	14:46

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	0.020	0.00	0.00	0.76	0.76	79.98	19.26

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	10586	0	235.6	123.6	-1.4	95	0.00
	Haryana	9753	0	208.1	141.7	-1.3	224	0.73
	Rajasthan	14898	0	311.1	71.3	-1.2	383	8.80
	Delhi	6815	0	133.7	126.9	-8.7	206	0.00
	UP	24272	0	506.1	234.5	1.8	1068	9.12
	Uttarakhand	2269	0	48.7	29.0	0.4	219	0.58
	HP	1598	0	32.2	8.2	0.8	273	0.00
	J&K(UT) & Ladakh(UT)	2252	0	48.0	30.8	-0.8	252	0.24
	Chandigarh	365	0	7.0	6.9	0.0	29	0.00
WR	Chhattisgarh	4587	0	107.1	55.9	-0.8	259	0.00
	Gujarat	20119	0	429.8	210.3	-4.3	611	0.00
	MP	12312	0	279.9	141.2	0.0	584	0.00
	Maharashtra	24356	0	543.9	176.6	-0.4	905	0.00
	Goa	568	0	12.4	12.2	-0.2	37	0.00
	DD	338	0	7.6	7.5	0.1	25	0.00
	DNH	864	0	19.1	19.2	-0.1	57	0.00
	AMNSIL	857	0	19.1	9.8	0.2	268	0.00
SR	Andhra Pradesh	8652	0	190.4	34.2	0.2	523	0.00
	Telangana	8470	0	178.8	56.9	1.0	863	0.00
	Karnataka	7590	0	152.8	14.0	-0.7	580	0.00
	Kerala	3537	0	69.8	47.2	0.0	205	0.00
	Tamil Nadu	15000	0	330.1	142.5	-0.4	721	0.00
	Puducherry	437	0	9.3	9.4	-0.2	47	0.00
ER	Bihar	5146	0	101.5	93.6	-0.1	253	0.42
	DVC	3490	0	76.9	-35.9	3.1	673	0.00
	Jharkhand	1512	0	32.4	23.5	-0.1	200	2.16
	Odisha	6548	0	135.8	61.0	-1.5	342	0.00
	West Bengal	9025	0	181.5	57.7	0.5	356	0.00
	Sikkim	87	0	1.3	1.4	-0.1	37	0.00
NER	Arunachal Pradesh	134	0	2.3	2.6	-0.4	4	0.00
	Assam	1519	0	25.8	19.2	0.3	92	0.00
	Manipur	189	0	2.4	2.4	-0.1	18	0.00
	Meghalaya	301	0	5.4	0.3	-0.2	33	0.00
	Mizoram	91	0	1.5	1.8	-0.3	2	0.00
	Nagaland	125	0	2.3	2.1	0.0	11	0.00
	Tripura	261	0	3.3	2.3	-0.6	21	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	9.4	-5.1	-24.1
Day Peak (MW)	497.0	138.7	-1035.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	312.0	-168.0	-44.6	-75.8	-23.7	0.0
Actual(MU)	315.1	-173.8	-55.0	-67.2	-27.2	-8.0
O/D/U/D(MU)	3.1	-5.9	-10.4	8.6	-3.5	-8.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3666	10195	7778	2770	275	24684	46
State Sector	6775	13644	5173	3000	47	28638	54
Total	10441	23839	12951	5770	322	53323	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	736	1302	577	564	15	3195	69
Lignite	22	11	64	0	0	98	2
Hydro	255	27	64	66	30	443	10
Nuclear	24	32	46	0	0	102	2
Gas, Naptha & Diesel	28	20	9	0	29	86	2
RES (Wind, Solar, Biomass & Others)	179	232	269	5	0	685	15
Total	1245	1624	1029	636	75	4608	100

Share of RES in total generation (%)	14.35	14.27	26.17	0.83	0.49	14.87
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.78	17.90	36.89	11.24	40.11	26.69

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
Based on State Max Demands	1.055

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: 21-May-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	500	0.0	10.5	-10.5
2	HVDC	PUSAULI B/B	-	3	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	142	352	0.0	1.7	-1.7
4	765 kV	SASARAM-FATEHPUR	1	0	373	0.0	6.7	-6.7
5	765 kV	GAYA-BALIA	1	0	630	0.0	11.2	-11.2
6	400 kV	PUSAULI-VARANASI	1	50	57	0.0	0.2	-0.2
7	400 kV	PUSAULI -ALLAHABAD	1	7	170	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	983	0.0	15.2	-15.2
9	400 kV	PATNA-BALIA	2	0	558	0.0	10.3	-10.3
10	400 kV	NAUBATPUR-BALIA	2	0	596	0.0	11.0	-11.0
11	400 kV	BIHARSHARIFF-BALIA	2	0	687	0.0	9.7	-9.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	533	0.0	9.5	-9.5
13	400 kV	BIHARSHARIFF-VARANASI	2	0	279	0.0	4.3	-4.3
14	220 kV	SAHUPURI-KARAMNASA	1	0	179	0.0	2.8	-2.8
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	0.4	95.0	-94.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	9.4	0.0	9.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1344	0	21.4	0.0	21.4
3	765 kV	JHARSUGUDA-DURG	2	0	314	5.4	0.0	5.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	3.8	-3.8
5	400 kV	RANCHI-SIPAT	2	319	0	4.8	0.0	4.8
6	220 kV	BUDHIPADAR-RAIGARH	1	1	94	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	108	0	1.4	0.0	1.4
					ER-WR	42.3	4.9	37.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	242	0.0	5.1	-5.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1636	0.0	34.6	-34.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2087	0.0	30.3	-30.3
4	400 kV	TALCHER-I/C	2	614	0	10.5	0.0	10.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	69.9	-69.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	407	3	4.4	0.0	4.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	711	0	9.5	0.0	9.5
3	220 kV	ALIPURDUAR-SALAKATI	2	121	1	1.5	0.0	1.5
					ER-NER	15.4	0.0	15.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	12.0	-12.0
					NER-NR	0.0	12.0	-12.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2007	0.0	41.0	-41.0
2	HVDC	VINDHYACHAL B/B	-	450	0	9.0	0.0	9.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	813	0.0	11.3	-11.3
4	765 kV	GWALIOR-AGRA	2	0	2582	0.0	46.4	-46.4
5	765 kV	GWALIOR-PHAGI	2	0	1563	0.0	21.9	-21.9
6	765 kV	JABALPUR-ORAI	2	0	1108	0.0	41.9	-41.9
7	765 kV	GWALIOR-ORAI	1	546	0	9.5	0.0	9.5
8	765 kV	SATNA-ORAI	1	0	1096	0.0	23.4	-23.4
9	765 kV	BANASKANTHA-CHITORGARH	2	556	764	1.8	5.9	-4.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	3591	0.0	69.3	-69.3
11	400 kV	ZERDA-KANKROLI	1	262	11	2.5	0.0	2.5
12	400 kV	ZERDA -BHINMAL	1	550	0	7.3	0.0	7.3
13	400 kV	VINDHYACHAL -RIHAND	1	949	0	21.3	0.0	21.3
14	400 kV	RAPP-SHUJALPUR	2	138	499	0.1	5.6	-5.5
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	102	0	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	63	7	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	53.5	266.6	-213.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	990	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	2399	0	27.1	0.0	27.1
3	765 kV	SOLAPUR-RAICHUR	2	2092	1002	17.9	1.9	16.0
4	765 kV	WARDHA-NIZAMABAD	2	79	2043	0.0	20.7	-20.7
5	400 kV	KOLHAPUR-KUDGI	2	1746	0	29.1	0.0	29.1
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	98	2.0	0.0	2.0
					WR-SR	100.1	22.6	77.5

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)	247	0	200	4.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	207	0	185	4.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	49	0	26	0.6
	NER	132kV GELEPHU-SALAKATI	35	0	27	0.6
	NER	132kV MOTANGA-RANGIA	-23	0	-7	-0.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-61	-1.5
	ER	NEPAL IMPORT (FROM BIHAR)	-41	-14	-20	-0.5
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	258	0	-133	-3.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-922	-906	-916	-22.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-113	0	-88	-2.1