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: 22nd 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 21.05.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21st 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:** **22-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)	53523	58182	42523	19476	2502	176206
Peak Shortage (MW)	0	0	0	219	0	219
Energy Met (MU)	1424	1381	923	506	43	4277
Hydro Gen (MU)	248	25	65	71	35	444
Wind Gen (MU)	65	261	200	-	-	527
Solar Gen (MU)*	101.51	49.77	86.12	5.16	0.35	243
Energy Shortage (MU)	3.43	0.00	0.00	0.82	0.00	4.25
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	67533	59404	42802	23892	2554	191592
Time Of Maximum Demand Met (From NLDC SCADA)	14:46	14:58	19:42	00:00	19:01	14:58

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	0.049	0.00	0.61	2.23	2.85	57.71	39.44

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	10465	0	223.2	125.5	-0.8	199	0.00
	Haryana	9419	0	184.1	126.8	-4.2	464	0.00
	Rajasthan	14341	0	299.1	71.9	-2.7	512	0.00
	Delhi	6412	0	129.1	115.2	-1.0	218	0.00
	UP	21192	0	449.1	221.4	-3.2	470	2.87
	Uttarakhand	2284	0	48.1	28.3	0.8	228	0.06
	HP	1644	0	34.2	10.3	0.7	129	0.00
	J&K(UT) & Ladakh(UT)	2315	0	50.4	29.8	-1.0	343	0.50
	Chandigarh	322	0	6.4	6.8	-0.4	3	0.00
WR	Chhattisgarh	4549	0	104.5	58.3	-2.0	238	0.00
	Gujarat	18851	0	417.8	174.8	-1.8	654	0.00
	MP	11815	0	261.0	128.9	0.0	316	0.00
	Maharashtra	23553	0	537.6	170.6	-1.0	1073	0.00
	Goa	602	0	12.3	12.1	-0.2	23	0.00
	DD	333	0	7.5	7.5	0.0	28	0.00
	DNH	858	0	20.1	20.3	-0.2	44	0.00
	AMNSIL	886	0	19.7	10.0	-0.1	274	0.00
SR	Andhra Pradesh	8831	0	193.3	34.9	-0.6	553	0.00
	Telangana	7679	0	164.9	51.5	-0.8	758	0.00
	Karnataka	7473	0	154.4	5.3	0.1	885	0.00
	Kerala	3555	0	71.0	45.0	0.2	235	0.00
	Tamil Nadu	15218	0	330.4	140.7	-4.2	448	0.00
	Puducherry	431	0	9.3	9.2	0.0	45	0.00
ER	Bihar	4956	0	104.8	97.4	-2.9	258	0.14
	DVC	3443	0	74.6	-34.9	0.1	356	0.00
	Jharkhand	1443	0	28.3	22.2	-1.9	193	0.69
	Odisha	6395	0	137.1	65.9	-1.2	436	0.00
	West Bengal	8912	0	159.2	39.5	-1.6	901	0.00
	Sikkim	89	0	1.4	1.5	-0.1	33	0.00
NER	Arunachal Pradesh	136	0	2.3	2.9	-0.8	67	0.00
	Assam	1509	0	25.7	20.0	-0.7	89	0.00
	Manipur	192	0	2.4	2.4	0.0	48	0.00
	Meghalaya	337	0	5.8	0.6	-0.1	43	0.00
	Mizoram	89	0	1.6	1.8	-0.3	3	0.00
	Nagaland	135	0	2.4	2.2	0.0	6	0.00
	Tripura	225	0	3.3	2.3	-0.5	36	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	12.3	-1.7	-17.5
Day Peak (MW)	859.0	-148.8	-1042.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	309.3	-179.4	-38.6	-66.4	-24.9	0.0
Actual(MU)	304.0	-186.8	-39.1	-60.4	-25.7	-7.9
O/D/U/D(MU)	-5.3	-7.4	-0.5	6.1	-0.8	-7.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3491	10856	7998	3570	275	26190	45
State Sector	7260	14799	7853	2000	47	31958	55
Total	10751	25654	15851	5570	322	58148	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	646	1196	501	518	11	2872	65
Lignite	20	10	53	0	0	83	2
Hydro	248	25	65	71	35	444	10
Nuclear	24	33	46	0	0	103	2
Gas, Naptha & Diesel	22	9	9	0	28	69	2
RES (Wind, Solar, Biomass & Others)	183	312	318	5	0	819	19
Total	1143	1586	992	595	74	4390	100

Share of RES in total generation (%)	16.04	19.68	32.08	0.87	0.47	18.66
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.82	23.33	43.30	12.88	47.39	31.13

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.049

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: 22-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	350	0.0	8.4	-8.4
2	HVDC	PUSAULI B/B	-	3	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	444	310	0.0	1.4	-1.4
4	765 kV	SASARAM-FATEHPUR	1	0	403	0.0	5.8	-5.8
5	765 kV	GAYA-BALIA	1	0	583	0.0	10.3	-10.3
6	400 kV	PUSAULI-VARANASI	1	63	77	0.0	0.3	-0.3
7	400 kV	PUSAULI -ALLAHABAD	1	21	180	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	996	0.0	17.5	-17.5
9	400 kV	PATNA-BALIA	2	0	478	0.0	8.4	-8.4
10	400 kV	NAUBATPUR-BALIA	2	0	517	0.0	8.3	-8.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	685	0.0	9.7	-9.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	519	0.0	8.9	-8.9
13	400 kV	BIHARSHARIFF-VARANASI	2	37	279	0.0	2.1	-2.1
14	220 kV	SAHUPURI-KARAMNASA	1	0	183	0.0	2.9	-2.9
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	85.6	-85.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	23.0	0.0	23.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1214	148	15.3	0.0	15.3
3	765 kV	JHARSUGUDA-DURG	2	0	314	6.2	0.0	6.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	4.5	-4.5
5	400 kV	RANCHI-SIPAT	2	295	43	4.1	0.0	4.1
6	220 kV	BUDHIPADAR-RAIGARH	1	23	96	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	113	41	1.2	0.0	1.2
					ER-WR	49.8	5.1	44.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	241	0.0	5.1	-5.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1635	0.0	28.6	-28.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2725	0.0	40.9	-40.9
4	400 kV	TALCHER-I/C	2	608	301	12.7	0.0	12.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	74.5	-74.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	344	27	4.6	0.1	4.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	561	52	8.3	0.0	8.3
3	220 kV	ALIPURDUAR-SALAKATI	2	84	26	1.1	0.0	1.1
					ER-NER	14.1	0.1	14.0
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	2002	0.0	40.5	-40.5
2	HVDC	VINDHYACHAL B/B	-	449	247	7.6	1.2	6.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1014	0.0	13.3	-13.3
4	765 kV	GWALIOR-AGRA	2	0	2504	0.0	42.0	-42.0
5	765 kV	GWALIOR-PHAGI	2	69	1366	0.0	16.0	-16.0
6	765 kV	JABALPUR-ORAI	2	0	1020	0.0	35.2	-35.2
7	765 kV	GWALIOR-ORAI	1	608	0	0.0	8.5	-8.5
8	765 kV	SATNA-ORAI	1	0	1078	0.0	22.7	-22.7
9	765 kV	BANASKANTHA-CHITORGARH	2	0	1020	0.0	11.7	-11.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	3402	0.0	71.2	-71.2
11	400 kV	ZERDA-KANKROLI	1	186	10	1.8	0.0	1.8
12	400 kV	ZERDA -BHINMAL	1	528	64	6.2	0.0	6.2
13	400 kV	VINDHYACHAL -RIHAND	1	968	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	234	397	0.0	4.6	-4.6
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	90	3	0.4	0.1	0.3
18	220 kV	MALANPUR-AURAIYA	1	52	22	1.0	0.0	1.0
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	38.5	267.1	-228.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	990	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	2888	0	43.4	0.0	43.4
3	765 kV	SOLAPUR-RAICHUR	2	1620	1755	4.1	0.0	4.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2737	0.0	31.8	-31.8
5	400 kV	KOLHAPUR-KUDGI	2	1790	0	28.1	0.0	28.1
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	1	105	1.4	0.0	1.4
					WR-SR	101.0	31.8	69.2

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)	503	248	272	6.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	297	170	217	5.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	105	0	48	1.2
	NER	132kV GELEPHU-SALAKATI	10	0	1	0.0
	NER	132kV MOTANGA-RANGIA	-42	-19	-27	-0.7
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-50	-1.2
	ER	NEPAL IMPORT (FROM BIHAR)	-29	0	-8	-0.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-44	0	-11	-0.3
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-926	-106	-640	-15.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-116	0	-90	-2.2