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: 16th 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 15.05.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th 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:** **16-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)	61354	57284	37851	22207	2449	181145
Peak Shortage (MW)	0	0	0	381	0	381
Energy Met (MU)	1487	1431	901	520	44	4382
Hydro Gen (MU)	308	35	61	70	23	496
Wind Gen (MU)	66	149	121	-	-	336
Solar Gen (MU)*	107.43	51.56	96.08	5.56	0.20	261
Energy Shortage (MU)	1.28	0.00	0.00	2.61	0.36	4.25
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	67390	62646	39060	23052	2544	191253
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	15:34	14:52	23:10	19:05	00:00

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	0.057	0.42	1.56	3.19	5.17	65.94	28.89

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	10112	0	223.5	129.8	0.0	201	0.00
	Haryana	8644	0	192.2	125.5	0.5	304	0.00
	Rajasthan	14622	0	298.4	69.7	-2.7	287	0.00
	Delhi	6631	0	125.6	112.2	-1.4	151	0.00
	UP	25046	0	510.5	238.1	0.0	381	0.96
	Uttarakhand	2188	0	47.7	24.9	1.8	393	0.24
	HP	1403	0	30.6	1.2	-0.3	240	0.00
	J&K(UT) & Ladakh(UT)	2250	0	52.1	31.3	-0.7	110	0.08
	Chandigarh	318	0	6.2	6.5	-0.2	32	0.00
WR	Chhattisgarh	4457	0	102.8	55.3	-2.2	487	0.00
	Gujarat	18913	0	415.3	205.5	-0.2	446	0.00
	MP	12017	0	274.9	140.3	0.0	435	0.00
	Maharashtra	25290	0	577.8	182.1	-0.4	761	0.00
	Goa	638	0	13.2	12.8	0.1	41	0.00
	DD	314	0	7.0	7.2	-0.2	40	0.00
	DNH	845	0	19.6	19.7	-0.1	46	0.00
	AMNSIL	935	0	19.9	9.5	0.8	265	0.00
SR	Andhra Pradesh	8596	0	187.5	54.2	0.3	398	0.00
	Telangana	8267	0	174.7	59.0	0.9	570	0.00
	Karnataka	8974	0	186.0	14.5	-1.0	691	0.00
	Kerala	3219	0	63.5	49.5	-0.2	301	0.00
	Tamil Nadu	12707	0	281.4	163.8	-4.8	780	0.00
	Puducherry	366	0	7.9	8.3	-0.5	93	0.00
ER	Bihar	6094	162	121.5	109.4	-0.7	497	1.88
	DVC	3383	0	74.6	-38.9	0.8	347	0.00
	Jharkhand	1512	0	32.2	23.4	-0.4	134	0.73
	Odisha	6040	0	129.1	62.0	-2.0	765	0.00
	West Bengal	7657	0	160.9	35.2	1.1	344	0.00
	Sikkim	84	0	1.3	1.4	0.0	24	0.00
NER	Arunachal Pradesh	120	0	2.5	2.6	-0.1	0	0.00
	Assam	1504	0	25.4	18.8	-0.7	88	0.00
	Manipur	167	0	2.5	2.5	-0.1	10	0.00
	Meghalaya	291	0	4.6	2.1	0.3	71	0.36
	Mizoram	99	0	1.7	1.8	-0.2	5	0.00
	Nagaland	124	0	2.3	1.9	0.0	14	0.00
	Tripura	289	0	5.1	4.2	-0.1	43	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	11.4	-1.9	-25.1
Day Peak (MW)	657.0	-168.0	-1070.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	234.5	-137.4	6.8	-90.9	-12.9	0.0
Actual(MU)	234.5	-108.8	-30.4	-86.9	-16.2	-7.7
O/D/U/D(MU)	0.0	28.6	-37.2	4.1	-3.3	-7.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3709	11346	5678	2310	425	23468	45
State Sector	7550	12061	7260	1990	173	29033	55
Total	11259	23406	12938	4300	598	52501	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	705	1277	548	571	12	3113	69
Lignite	22	13	39	0	0	75	2
Hydro	308	35	61	70	23	496	11
Nuclear	25	33	46	0	0	103	2
Gas, Naptha & Diesel	23	5	8	0	30	66	1
RES (Wind, Solar, Biomass & Others)	196	201	241	6	0	645	14
Total	1278	1564	944	647	65	4499	100

Share of RES in total generation (%)	15.36	12.87	25.58	0.86	0.31	14.34
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.35	17.18	36.95	11.63	35.25	27.66

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
Based on State Max Demands	1.067

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: 16-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	351	0.0	8.6	-8.6
2	HVDC	PUSAULI B/B	-	3	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	615	303	1.7	0.0	1.7
4	765 kV	SASARAM-FATEHPUR	1	30	280	0.0	3.5	-3.5
5	765 kV	GAYA-BALIA	1	0	804	0.0	13.3	-13.3
6	400 kV	PUSAULI-VARANASI	1	102	14	0.8	0.0	0.8
7	400 kV	PUSAULI -ALLAHABAD	1	112	116	0.0	0.2	-0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	855	0.0	10.9	-10.9
9	400 kV	PATNA-BALIA	2	0	651	0.0	11.9	-11.9
10	400 kV	NAUBATPUR-BALIA	2	0	706	0.0	12.5	-12.5
11	400 kV	BIHARSHARIFF-BALIA	2	0	685	0.0	8.3	-8.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	484	0.0	7.0	-7.0
13	400 kV	BIHARSHARIFF-VARANASI	2	181	244	0.0	1.8	-1.8
14	220 kV	SAHUPURI-KARAMNASA	1	0	180	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	0.5	0.0	0.5
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	2.9	80.6	-77.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	12.9	0.0	12.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1349	18	15.1	0.0	15.1
3	765 kV	JHARSUGUDA-DURG	2	0	314	2.1	0.0	2.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	5.8	-5.8
5	400 kV	RANCHI-SIPAT	2	340	0	2.3	0.0	2.3
6	220 kV	BUDHIPADAR-RAIGARH	1	14	127	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	146	56	1.6	0.0	1.6
					ER-WR	33.8	6.8	27.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	339	0.0	3.8	-3.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1792	0.0	37.5	-37.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2683	0.0	41.1	-41.1
4	400 kV	TALCHER-I/C	2	968	777	5.2	0.0	5.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	82.4	-82.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	257	102	1.3	0.4	1.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	401	80	2.6	0.0	2.6
3	220 kV	ALIPURDUAR-SALAKATI	2	77	23	0.5	0.0	0.5
					ER-NER	4.4	0.4	4.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	12.1	-12.1
					NER-NR	0.0	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2503	0.0	42.8	-42.8
2	HVDC	VINDHYACHAL B/B	-	449	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	310	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	2264	0.0	31.1	-31.1
5	765 kV	GWALIOR-PHAGI	2	203	1349	0.2	14.9	-14.6
6	765 kV	JABALPUR-ORAI	2	0	1015	0.0	29.0	-29.0
7	765 kV	GWALIOR-ORAI	1	550	0	9.2	0.0	9.2
8	765 kV	SATNA-ORAI	1	0	1084	0.0	20.5	-20.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1077	343	8.1	0.0	8.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	3615	0.0	70.2	-70.2
11	400 kV	ZERDA-KANKROLI	1	357	0	5.0	0.0	5.0
12	400 kV	ZERDA -BHINMAL	1	801	0	11.7	0.0	11.7
13	400 kV	VINDHYACHAL -RIHAND	1	961	0	21.5	0.0	21.5
14	400 kV	RAPP-SHUJALPUR	2	307	579	0.0	1.6	-1.6
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	102	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	61	0	0.6	0.0	0.6
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	69.9	217.4	-147.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	987	8	20.9	0.0	20.9
2	HVDC	RAIGARH-PUGALUR	2	2876	0	46.0	0.0	46.0
3	765 kV	SOLAPUR-RAICHUR	2	1340	1799	8.5	5.7	2.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2658	0.0	34.2	-34.2
5	400 kV	KOLHAPUR-KUDGI	2	1553	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	0	123	2.3	0.0	2.3
					WR-SR	105.8	39.9	65.8

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)	343	0	271	6.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	212	186	186	4.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	77	0	43	1.0
	NER	132kV GELEPHU-SALAKATI	-9	2	-4	-0.1
	NER	132kV MOTANGA-RANGIA	-30	0	-21	-0.5
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-40	-1.0
	ER	NEPAL IMPORT (FROM BIHAR)	-37	-26	-27	-0.7
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-58	0	-11	-0.3
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-935	-929	-931	-22.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-135	0	-116	-2.8