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: 24th 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 23.05.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-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 23rd 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:** **24-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)	44973	55568	44664	21718	2994	169917
Peak Shortage (MW)	0	0	0	270	0	270
Energy Met (MU)	1033	1367	987	507	52	3946
Hydro Gen (MU)	213	31	78	71	34	427
Wind Gen (MU)	55	248	202	-	-	504
Solar Gen (MU)*	82.29	44.02	115.97	5.25	0.62	248
Energy Shortage (MU)	1.81	0.00	0.00	0.73	0.00	2.54
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61091	60311	46129	22468	2996	178201
Time Of Maximum Demand Met (From NLDC SCADA)	00:01	14:44	15:30	20:54	19:01	00:01

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	0.097	0.00	0.53	2.78	3.31	63.85	32.84

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	7785	0	137.9	87.5	-13.0	151	0.00
	Haryana	7286	0	102.8	84.7	-25.0	188	0.00
	Rajasthan	12734	328	262.0	77.7	-5.7	559	0.78
	Delhi	6052	0	99.2	88.1	-1.4	368	0.00
	UP	21956	0	315.6	157.7	-20.1	636	0.00
	Uttarakhand	1934	0	34.7	19.5	-1.8	254	0.00
	HP	1445	0	27.3	6.4	1.5	367	0.18
	J&K(UT) & Ladakh(UT)	2469	300	48.3	28.9	0.4	374	0.85
	Chandigarh	238	0	4.8	5.7	-0.9	20	0.00
WR	Chhattisgarh	4355	0	98.9	53.3	-4.0	392	0.00
	Gujarat	19206	0	418.2	168.2	2.0	874	0.00
	MP	10923	0	229.3	107.5	0.0	793	0.00
	Maharashtra	25105	0	562.3	159.6	1.9	1101	0.00
	Goa	668	0	13.7	13.3	-0.1	249	0.00
	DD	302	0	6.0	5.9	0.1	34	0.00
	DNH	847	0	19.2	19.1	0.1	49	0.00
	AMNSIL	890	0	19.8	9.9	0.2	297	0.00
SR	Andhra Pradesh	9844	0	207.2	47.5	2.0	746	0.00
	Telangana	8514	0	175.2	46.7	1.7	729	0.00
	Karnataka	8736	0	176.4	24.5	2.0	1254	0.00
	Kerala	3705	0	73.6	45.1	0.7	234	0.00
	Tamil Nadu	16664	0	344.8	161.3	0.9	687	0.00
	Puducherry	449	0	9.3	9.2	0.1	56	0.00
ER	Bihar	4964	0	103.5	92.5	-0.1	547	0.73
	DVC	3475	0	74.3	-31.5	-0.2	326	0.00
	Jharkhand	1372	0	29.9	21.5	-0.8	171	0.00
	Odisha	6298	0	125.7	60.1	-1.7	528	0.00
	West Bengal	8602	0	172.4	48.4	1.1	417	0.00
	Sikkim	98	0	1.4	1.5	-0.1	22	0.00
NER	Arunachal Pradesh	138	0	2.7	2.8	-0.2	19	0.00
	Assam	2003	0	32.0	25.1	0.6	169	0.00
	Manipur	181	0	2.5	2.6	0.0	62	0.00
	Meghalaya	337	0	6.0	0.2	0.2	48	0.00
	Mizoram	92	0	1.7	1.8	-0.3	6	0.00
	Nagaland	147	0	2.4	2.4	-0.1	16	0.00
	Tripura	293	0	4.9	4.2	-0.2	58	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	17.1	-2.2	-25.1
Day Peak (MW)	1034.0	-355.4	-1077.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	189.9	-133.1	19.5	-59.7	-16.6	0.0
Actual(MU)	122.9	-108.5	37.0	-41.6	-13.8	-4.0
O/D/U/D(MU)	-67.0	24.6	17.5	18.1	2.8	-4.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5038	16121	7608	2810	638	32215	46
State Sector	12470	15004	8345	2200	97	38115	54
Total	17508	31124	15953	5010	736	70330	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	511	1125	450	508	10	2604	64
Lignite	17	13	52	0	0	81	2
Hydro	213	31	78	71	34	427	10
Nuclear	24	33	43	0	0	100	2
Gas, Naptha & Diesel	15	3	5	0	27	50	1
RES (Wind, Solar, Biomass & Others)	154	293	365	5	1	818	20
Total	935	1497	994	584	72	4082	100

Share of RES in total generation (%)	16.52	19.54	36.77	0.90	0.87	20.05
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.96	23.80	48.92	13.10	47.92	32.97

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.083
Based on State Max Demands	1.123

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: 24-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	352	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	661	408	4.3	0.0	4.3
4	765 kV	SASARAM-FATEHPUR	1	101	390	0.0	3.6	-3.6
5	765 kV	GAYA-BALIA	1	30	592	0.0	5.0	-5.0
6	400 kV	PUSAULI-VARANASI	1	51	96	0.0	0.3	-0.3
7	400 kV	PUSAULI -ALLAHABAD	1	118	175	0.0	0.2	-0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	31	855	0.0	6.5	-6.5
9	400 kV	PATNA-BALIA	2	0	540	0.0	6.6	-6.6
10	400 kV	NAUBATPUR-BALIA	2	0	434	0.0	6.7	-6.7
11	400 kV	BIHARSHARIFF-BALIA	2	151	580	0.0	2.8	-2.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	482	0.0	4.7	-4.7
13	400 kV	BIHARSHARIFF-VARANASI	2	209	290	0.0	0.1	-0.1
14	220 kV	SAHUPURI-KARAMNASA	1	43	152	0.0	2.0	-2.0
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.5	0.0	0.5
16	132 kV	GARWAH-RIHAND	1	25	0	0.2	0.0	0.2
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	47.1	-42.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	34.2	0.0	34.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	912	0	9.8	0.0	9.8
3	765 kV	JHARSUGUDA-DURG	2	0	314	1.2	0.0	1.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	3.1	-3.1
5	400 kV	RANCHI-SIPAT	2	227	0	2.5	0.0	2.5
6	220 kV	BUDHIPADAR-RAIGARH	1	46	76	0.0	0.3	-0.3
7	220 kV	BUDHIPADAR-KORBA	2	157	0	2.3	0.0	2.3
					ER-WR	50.0	3.4	46.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	200	0.0	4.0	-4.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2700	0.0	45.0	-45.0
4	400 kV	TALCHER-I/C	2	932	638	2.2	0.0	2.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	85.2	-85.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	271	235	1.9	1.3	0.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	383	316	1.2	0.0	1.2
3	220 kV	ALIPURDUAR-SALAKATI	2	40	93	0.0	0.2	-0.2
					ER-NER	3.1	1.4	1.7
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	952	0.0	16.0	-16.0
2	HVDC	VINDHYACHAL B/B	-	0	247	0.0	6.1	-6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1017	0.0	11.8	-11.8
4	765 kV	GWALIOR-AGRA	2	1016	2141	3.7	17.4	-13.7
5	765 kV	GWALIOR-PHAGI	2	1264	1314	5.4	12.7	-7.3
6	765 kV	JABALPUR-ORAI	2	350	954	0.0	10.3	-10.3
7	765 kV	GWALIOR-ORAI	1	713	98	9.2	0.2	9.0
8	765 kV	SATNA-ORAI	1	0	1052	0.0	14.0	-14.0
9	765 kV	BANASKANTHA-CHITORGARH	2	883	519	4.5	0.0	4.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	2649	0.0	43.6	-43.6
11	400 kV	ZERDA-KANKROLI	1	352	0	4.9	0.0	4.9
12	400 kV	ZERDA -BHINMAL	1	619	0	9.0	0.0	9.0
13	400 kV	VINDHYACHAL -RIHAND	1	976	0	18.4	0.0	18.4
14	400 kV	RAPP-SHUJALPUR	2	758	375	5.6	2.1	3.4
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	125	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	90	0	1.3	0.0	1.3
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	62.7	134.2	-71.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	990	0	14.0	0.0	14.0
2	HVDC	RAIGARH-PUGALUR	2	610	605	0.0	1.8	-1.8
3	765 kV	SOLAPUR-RAICHUR	2	1658	1531	10.1	9.1	0.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2164	0.0	29.8	-29.8
5	400 kV	KOLHAPUR-KUDGI	2	1643	0	23.8	0.0	23.8
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	117	2.3	0.0	2.3
					WR-SR	50.1	40.7	9.4

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)	400	0	300	7.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	435	0	226	5.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	174	0	124	3.0
	NER	132kV GELEPHU-SALAKATI	-11	2	-5	-0.1
	NER	132kV MOTANGA-RANGIA	-54	-4	-38	-0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-65	0	-36	-0.9
	ER	NEPAL IMPORT (FROM BIHAR)	-36	-13	-21	-0.5
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-254	0	-34	-0.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-942	-918	-929	-22.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-135	0	-117	-2.8