



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पावर 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: 23rd 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., डोंगतेह, 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 22.05.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा 5.5.1 के प्रावधान के अनुसार, दिनांक 22-मई-2022 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा.भा.प्रे.के. की वेबसाइट पर उपलब्ध 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 22nd 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: 23-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)	58041	54358	37887	22043	2723	175052
Peak Shortage (MW)	590	0	0	0	0	590
Energy Met (MU)	1353	1317	875	460	48	4053
Hydro Gen (MU)	229	22	61	73	34	421
Wind Gen (MU)	54	272	229	-	-	555
Solar Gen (MU)*	107.99	48.68	109.24	5.18	-	272
Energy Shortage (MU)	3.10	0.00	0.00	0.12	0.00	3.22
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63568	57306	39167	22369	2723	183003
Time Of Maximum Demand Met (From NLDC SCADA)	22:52	23:25	21:30	20:59	20:03	22:45

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	0.092	0.00	0.94	3.18	4.12	68.71	27.17

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	10098	0	215.9	125.8	-0.6	209	0.00
	Haryana	8075	0	172.6	113.0	0.0	184	0.00
	Rajasthan	14365	0	293.3	83.8	2.4	1183	0.00
	Delhi	5935	0	115.1	102.9	-2.7	147	0.00
	UP	22896	0	422.1	196.8	4.8	1039	2.65
	Uttarakhand	2019	0	45.2	26.1	0.7	123	0.00
	HP	1465	0	30.9	10.7	0.5	197	0.13
	J&K(UT) & Ladakh(UT)	2248	0	52.7	31.0	0.0	264	0.32
	Chandigarh	287	0	5.6	6.0	-0.4	4	0.00
	Chhattisgarh	4311	0	95.5	51.5	-4.4	278	0.00
WR	Gujarat	17483	0	397.2	160.9	-0.5	528	0.00
	MP	10912	0	244.4	115.8	0.1	578	0.00
	Maharashtra	22998	0	521.9	157.1	-0.6	647	0.00
	Goa	568	0	10.8	10.1	0.1	133	0.00
	DD	271	0	7.4	7.3	0.1	29	0.00
	DNH	859	0	20.0	19.7	0.3	89	0.00
	AMNSIL	918	0	19.3	9.2	0.6	267	0.00
SR	Andhra Pradesh	9025	0	190.3	38.0	-1.6	593	0.00
	Telangana	7088	0	156.4	36.6	-1.3	493	0.00
	Karnataka	7487	0	150.1	8.2	-4.7	673	0.00
	Kerala	3191	0	65.5	40.6	0.2	235	0.00
	Tamil Nadu	13377	0	304.2	144.0	-5.7	674	0.00
	Puducherry	399	0	8.6	9.0	-0.5	28	0.00
ER	Bihar	5074	0	93.0	83.8	0.1	296	0.12
	DVC	3473	0	72.4	-37.8	0.0	296	0.00
	Jharkhand	1360	0	27.6	21.3	-2.5	134	0.00
	Odisha	5923	0	122.1	58.5	-4.7	320	0.00
	West Bengal	7843	0	144.2	21.5	0.3	654	0.00
NER	Sikkim	77	0	1.1	1.3	-0.2	23	0.00
	Arunachal Pradesh	139	0	2.4	2.6	-0.3	40	0.00
	Assam	1680	0	28.5	21.3	0.2	146	0.00
	Manipur	178	0	2.4	2.7	-0.3	29	0.00
	Meghalaya	320	0	6.0	0.7	0.0	59	0.00
	Mizoram	90	0	1.7	1.7	-0.3	9	0.00
	Nagaland	135	0	2.3	2.2	-0.1	12	0.00
	Trinura	276	0	4.3	4.2	-0.5	26	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	16.9	-1.7	-25.1
Day Peak (MW)	965.0	-144.1	-1064.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	288.1	-158.8	-28.4	-78.2	-22.8	0.0
Actual(MU)	295.6	-157.9	-48.9	-68.7	-21.4	-1.2
O/D/U/D(MU)	7.5	0.9	-20.5	9.5	1.4	-1.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4290	13701	7998	2910	275	29174	45
State Sector	9215	13999	9615	2250	97	35175	55
Total	13505	27699	17613	5160	372	64349	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	608	1099	419	490	10	2626	63
Lignite	18	10	50	0	0	78	2
Hydro	229	22	61	73	34	421	10
Nuclear	24	33	46	0	0	103	2
Gas, Naptha & Diesel	17	3	6	0	29	55	1
RES (Wind, Solar, Biomass & Others)	181	321	382	5	1	890	21
Total	1078	1487	964	569	74	4172	100
Share of RES in total generation (%)	16.77	21.58	39.67	0.90	1.01	21.33	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.32	25.26	50.82	13.81	47.32	33.89	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.012
Based on State Max Demands	1.054

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: 23-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	GAYALYARANASI	2	126	452	0.0	2.4	-2.4
4	765 kV	SASARAM-FATEHPUR	1	0	452	0.0	6.8	-6.8
5	765 kV	GAYA-BALIA	1	0	594	0.0	10.5	-10.5
6	400 kV	PUSAULI-VARANASI	1	19	111	0.0	0.8	-0.8
7	400 kV	PUSAULI-ALLAHABAD	1	0	187	0.0	2.0	-2.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	870	0.0	15.9	-15.9
9	400 kV	PATNA-BALIA	2	0	540	0.0	8.4	-8.4
10	400 kV	NAUBATPUR-BALIA	2	0	524	0.0	9.0	-9.0
11	400 kV	BIHARSHARIFF-BALIA	2	0	602	0.0	9.7	-9.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	478	0.0	8.3	-8.3
13	400 kV	BIHARSHARIFF-VARANASI	2	0	293	0.0	3.5	-3.5
14	220 kV	SAHIBPUR-KARAMUNSA	1	0	163	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	0.1	0.0	-0.1
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	-88.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	30.6	0.0	30.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	799	270	8.2	0.0	8.2
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.8	0.0	0.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	2.7	-2.7
5	400 kV	RANCHI-SIPAT	2	192	43	2.2	0.0	2.2
6	220 kV	BUDHIPADAR-RAIGARH	1	42	91	0.0	0.3	-0.3
7	220 kV	BUDHIPADAR-KORBA	2	167	0	1.5	0.0	1.5
						ER-WR	43.3	40.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	245	0.0	5.0	-5.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1640	0.0	27.9	-27.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2419	0.0	35.2	-35.2
4	400 kV	TALCHER-I/C	2	1420	641	8.4	0.0	8.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
						ER-SR	0.0	-68.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	363	98	3.5	0.3	3.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	560	111	6.6	0.0	6.6
3	220 kV	ALIPURDUAR-SALAKATI	2	89	52	0.7	0.0	0.7
						ER-NER	10.9	10.6
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
Import/Export of WR (With NR)								
1	HVDC	CHAMPACKURUKSHETRA	2	0	952	0.0	22.4	-22.4
2	HVDC	VINDHYACHAL-B/B	-	0	248	0.0	6.7	-6.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1015	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	0	2282	0.0	41.3	-41.3
5	765 kV	GWALIOR-PHAGI	2	0	1361	0.0	22.1	-22.1
6	765 kV	JABALPUR-ORAI	2	0	935	0.0	30.8	-30.8
7	765 kV	GWALIOR-ORAI	1	775	0	13.2	0.0	13.2
8	765 kV	SATNA-ORAI	1	0	1052	0.0	19.6	-19.6
9	765 kV	BANASKANTHA-CHITORGARH	2	297	911	0.0	9.2	-9.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2910	0.0	56.9	-56.9
11	400 kV	ZERDA-KANKROLI	1	199	10	2.1	0.0	2.1
12	400 kV	ZERDA-BHINMAL	1	351	74	5.3	0.0	5.3
13	400 kV	VINDHYACHAL-RIHAND	1	949	0	20.6	0.0	20.6
14	400 kV	RAPP-SHULIAPUR	2	0	392	0.0	5.3	-5.3
15	220 kV	BHANUPUR-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANUPUR-MORAK	1	0	30	0.0	0.0	0.0
17	220 kV	MEHGAON-AURAIYA	1	76	0	0.3	0.0	0.3
18	220 kV	MALANPUR-AURAIYA	1	45	12	0.9	0.0	0.9
19	132 kV	GWALIOR-SAWAIMADHOPUR	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	42.4	-196.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	990	0	22.6	0.0	22.6
2	HVDC	RAIGARH-PUGALUR	2	2871	0	37.3	0.0	37.3
3	765 kV	SOLAPUR-RAICHUR	2	2262	1274	15.2	3.8	11.4
4	765 kV	WARDHA-NIZAMABAD	2	383	2111	0.4	22.4	-22.0
5	400 kV	KOLHAPUR-KUDCI	2	1706	0	27.3	0.0	27.3
6	220 kV	KOLHAPUR-CHIKODI	1	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	103	2.0	0.0	2.0
						WR-SR	104.8	78.6
INTERNATIONAL EXCHANGES								
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)		
BHUTAN	ER	400KV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	423	0	304	7.3		
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	390	192	194	4.7		
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	156	64	94	2.3		
	NER	132KV GELEPHU-SALAKATI	23	0	7	0.2		
NEPAL	NER	132KV MOTANGA-RANGIA	-35	-10	-27	-0.6		
	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-63	0	-38	-0.9		
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	-51	0	-27	-0.6		
	NER	BHERAMARA B/B HVDC (BANGLADESH)	-942	-928	-935	-22.4		
		132KV COMILLA-SURAJMANI NAGAR 1&2	-122	0	-113	-2.7		