



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: 20th 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 19.05.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-मई-2022 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 19th 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: 20-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)	63833	59443	41552	20145	2179	187152
Peak Shortage (MW)	1030	0	0	133	0	1163
Energy Met (MU)	1516	1459	937	520	41	4473
Hydro Gen (MU)	250	50	68	69	26	462
Wind Gen (MU)	26	95	102	-	-	223
Solar Gen (MU)*	105.17	48.44	76.69	5.38	0.39	236
Energy Shortage (MU)	27.91	0.00	0.00	13.75	0.00	41.66
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68912	65127	42271	23947	2219	199355
Time Of Maximum Demand Met (From NLDC SCADA)	13:30	14:38	12:03	00:01	19:00	14:18

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	0.056	0.20	2.35	11.46	14.00	75.65	10.35

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	10327	0	226.0	119.2	-0.8	97	0.00
	Haryana	9833	0	208.4	137.9	1.4	288	2.26
	Rajasthan	15797	51	308.3	92.7	1.5	370	12.34
	Delhi	7008	0	138.1	122.8	-0.2	230	0.00
	UP	22608	1030	497.4	211.3	1.7	658	11.37
	Uttarakhand	2233	0	45.8	25.4	2.1	257	1.83
	HP	1594	0	33.3	9.5	1.8	298	0.00
	J&K(UT) & Ladakh(UT)	2684	0	52.2	30.6	0.6	209	0.11
WR	Chandigarh	348	0	6.6	6.4	0.2	61	0.00
	Chhattisgarh	4471	0	100.9	53.3	-1.7	251	0.00
	Gujarat	19597	0	434.5	221.3	2.0	891	0.00
	MP	12443	0	280.2	143.7	0.0	998	0.00
	Maharashtra	25972	0	582.6	196.9	-1.0	596	0.00
	Goa	635	0	14.1	13.7	-0.2	24	0.00
	DD	335	0	7.4	7.4	0.0	19	0.00
	DNH	878	0	20.4	20.2	0.2	78	0.00
SR	AMNSIL	831	0	18.5	9.6	-0.4	263	0.00
	Andhra Pradesh	8784	0	192.2	66.0	0.9	579	0.00
	Telangana	8615	0	180.6	58.2	0.4	795	0.00
	Karnataka	8137	0	166.5	37.2	-2.3	739	0.00
	Kerala	3493	0	67.6	41.2	-0.5	261	0.00
	Tamil Nadu	14885	0	321.5	150.4	-4.6	1080	0.00
	Puducherry	422	0	8.7	8.9	-0.3	51	0.00
	Bihar	5775	0	107.3	102.5	-2.5	758	9.11
ER	DVC	3482	0	75.5	-29.5	3.5	488	0.00
	Jharkhand	1457	130	30.5	20.8	1.2	197	4.64
	Odisha	5869	0	125.6	45.6	0.9	496	0.00
	West Bengal	8817	0	179.9	54.9	0.6	530	0.00
	Sikkim	69	0	0.9	1.0	-0.1	21	0.00
	Arunachal Pradesh	119	0	2.3	2.3	-0.1	24	0.00
NER	Assam	1330	0	23.4	17.2	-0.1	82	0.00
	Manipur	174	0	2.4	2.2	0.2	34	0.00
	Meghalaya	300	0	5.0	0.1	-0.1	54	0.00
	Mizoram	97	0	1.8	1.8	0.0	8	0.00
	Nagaland	148	0	2.4	2.1	0.0	12	0.00
	Tripura	258	0	4.0	3.9	-0.5	58	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	9.6	-5.0	-23.9
Day Peak (MW)	511.0	65.1	-1042.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	305.7	-160.6	-31.4	-94.7	-18.9	0.0
Actual(MU)	302.6	-160.0	-46.6	-76.4	-26.2	-6.5
O/D/U/D(MU)	-3.0	0.6	-15.1	18.4	-7.4	-6.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4333	10395	6568	2360	425	24082	45
State Sector	7535	12916	5575	3150	47	29223	55
Total	11868	23311	12143	5510	472	53304	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	763	1396	604	563	18	3343	73
Lignite	23	12	70	0	0	105	2
Hydro	250	50	68	69	26	462	10
Nuclear	25	31	46	0	0	102	2
Gas, Naptha & Diesel	26	17	8	0	29	80	2
RES (Wind, Solar, Biomass & Others)	147	144	213	5	0	510	11
Total	1233	1650	1009	637	73	4602	100

Share of RES in total generation (%)	11.94	8.74	21.07	0.85	0.54	11.08
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.18	13.65	32.39	11.71	35.78	23.34

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.053

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: 20-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	551	0.0	12.6	-12.6
2	HVDC	PUSAULI B/B	-	3	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	245	406	0.0	1.0	-1.0
4	765 kV	SASARAM-FAITEHPUR	1	0	238	0.0	5.7	-5.7
5	765 kV	GAYA-BALIA	1	0	613	0.0	12.0	-12.0
6	400 kV	PUSAULL-VARANASI	1	36	3	0.3	0.0	0.3
7	400 kV	PUSAULI-ALLAHABAD	1	11	77	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	899	0.0	12.0	-12.0
9	400 kV	PATNA-BALIA	2	0	700	0.0	12.6	-12.6
10	400 kV	NAUBATPUR-BALIA	2	0	743	0.0	13.3	-13.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	758	0.0	7.9	-7.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	734	0.0	8.9	-8.9
13	400 kV	BIHARSHARIFF-VARANASI	2	47	320	0.0	1.6	-1.6
14	220 kV	SAHUPURI-KARMANASA	1	0	162	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	91.3	-90.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	6.5	0.0	6.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1337	0	20.7	0.0	20.7
3	765 kV	JHARSUGUDA-DURG	2	0	314	2.4	0.0	2.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	3.8	-3.8
5	400 kV	RANCHI-SIPAT	2	308	50	4.1	0.0	4.1
6	220 kV	BUDHIPADAR-RAIGARH	1	12	102	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	102	27	1.1	0.0	1.1
						ER-WR	34.7	29.8
Import/Export of ER (With SR)								
1	HVDC	JEPPIRE-GAZUWAKA B/B	2	0	415	0.0	7.4	-7.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1638	0.0	35.1	-35.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	1936	0.0	29.5	-29.5
4	400 kV	TALCHER-JC	2	710	0	8.9	0.0	8.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
						ER-SR	0.0	-72.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	298	0	3.4	0.0	3.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	545	0	8.4	0.0	8.4
3	220 kV	ALIPURDUAR-SALAKATI	2	85	0	1.2	0.0	1.2
						ER-NER	12.9	0.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	602	0.0	13.7	-13.7
						NER-NR	0.0	-13.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2501	0.0	48.8	-48.8
2	HVDC	VINDHYACHAL B/B	-	91	0	2.4	0.0	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	310	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	2020	0.0	38.7	-38.7
5	765 kV	GWALIOR-PHAGI	2	0	1875	0.0	28.6	-28.6
6	765 kV	JABALPUR-ORAI	2	0	1002	0.0	37.3	-37.3
7	765 kV	GWALIOR-ORAI	1	586	0	12.0	0.0	12.0
8	765 kV	SATNA-ORAI	1	0	1051	0.0	23.1	-23.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1018	122	8.6	0.0	8.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	3524	0.0	70.8	-70.8
11	400 kV	ZERDA-KANKROLI	1	303	0	3.8	0.0	3.8
12	400 kV	ZERDA-BHINMAL	1	465	0	5.9	0.0	5.9
13	400 kV	VINDHYACHAL-RIHAND	1	964	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	123	460	0.1	4.8	-4.7
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	105	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	59	0	1.6	0.0	1.6
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	57.2	-202.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	987	0	16.5	0.0	16.5
2	HVDC	RAIGARH-PUGALUR	2	2404	0	31.0	0.0	31.0
3	765 kV	SOLAPUR-RAICHUR	2	1691	576	13.9	0.9	13.1
4	765 kV	WARDHA-NIZAMABAD	2	0	1723	0.0	22.2	-22.2
5	400 kV	KOLHAPUR-KUDGI	2	1706	0	31.1	0.0	31.1
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	114	2.3	0.0	2.3
						WR-SR	94.9	23.0

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 MANGDECHHU HEP 4*180MW)	251	0	222	5.3	
	ER	400kV TALA-BINAGURI 1,2,4 i.e. 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	206	0	124	3.0	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	45	0	24	0.6	
	NER	132kV GELEPHU-SALAKATI	-9	0	-4	-0.1	
	NER	132kV MOTANGA-RANGIA	43	23	30	0.7	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-80	0	-69	-1.7	
	ER	NEPAL IMPORT (FROM BIHAR)	-44	0	-27	-0.7	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	189	0	-113	-2.7	
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-919	-770	-877	-21.1	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-123	0	-119	-2.9	