



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 August 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 22.08.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-अगस्त-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 22nd Aug 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-Aug-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)	68890	48875	42819	25372	3442	189398
Peak Shortage (MW)	40	0	0	748	0	788
Energy Met (MU)	1552	1093	1042	555	66	4309
Hydro Gen (MU)	409	83	166	142	31	831
Wind Gen (MU)	19	186	233	-	-	438
Solar Gen (MU)*	98.27	30.48	95.08	4.82	0.77	229
Energy Shortage (MU)	2.26	0.00	0.00	3.29	0.00	5.55
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	71389	48900	50988	26257	3494	189168
Time Of Maximum Demand Met (From NLDC SCADA)	22:40	19:37	10:26	21:03	18:52	19:30

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	0.027	0.00	0.21	2.70	2.90	77.68	19.42

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	14267	0	320.1	183.0	-1.4	111	0.00
	Haryana	10936	0	239.1	154.9	1.7	216	0.00
	Rajasthan	10674	0	233.8	72.9	-1.0	458	0.00
	Delhi	6267	0	128.2	117.7	-1.5	166	0.00
	UP	24702	0	492.9	206.6	1.4	517	1.98
	Uttarakhand	2306	0	48.2	22.3	1.3	160	0.08
	HP	1421	0	30.0	-5.1	-1.4	53	0.00
	J&K(UT) & Ladakh(UT)	2625	0	52.7	27.8	0.1	253	0.20
	Chandigarh	358	0	7.0	7.4	-0.4	10	0.00
	WR	Chhattisgarh	4328	0	97.6	51.1	0.7	408
Gujarat		14537	0	314.2	183.8	-9.8	469	0.00
MP		7336	0	157.7	29.3	0.0	546	0.00
Maharashtra		21151	0	465.5	158.6	-1.5	579	0.00
Goa		612	0	12.1	12.2	-0.1	114	0.00
DNHDDPDCL		1199	0	27.5	27.4	0.1	51	0.00
AMNSIL		820	0	18.3	11.9	-0.4	230	0.00
SR		Andhra Pradesh	10813	0	221.3	60.3	0.5	793
	Telangana	12744	0	226.9	88.2	2.0	1016	0.00
	Karnataka	10400	0	195.7	48.8	-1.1	535	0.00
	Kerala	3432	0	72.5	31.2	-1.9	268	0.00
	Tamil Nadu	14937	0	316.7	140.3	-2.7	967	0.00
	Puducherry	406	0	9.1	8.6	-0.2	29	0.00
ER	Bihar	6568	822	134.2	123.5	5.2	412	2.46
	DVC	3434	0	73.7	-27.4	0.3	432	0.00
	Jharkhand	1448	133	31.3	22.2	-0.5	246	0.83
	Odisha	5967	0	126.8	58.8	0.7	317	0.00
	West Bengal	9393	0	187.9	65.0	1.3	367	0.00
	Sikkim	105	0	1.6	1.3	0.3	22	0.00
NER	Arunachal Pradesh	148	0	2.6	2.5	-0.4	69	0.00
	Assam	2332	0	45.3	37.5	-0.1	138	0.00
	Manipur	205	0	2.7	2.7	0.0	30	0.00
	Meghalaya	322	0	5.8	2.0	-0.2	66	0.00
	Mizoram	106	0	1.8	0.8	-0.1	15	0.00
	Nagaland	154	0	2.7	2.4	-0.3	13	0.00
	Tripura	321	0	5.6	5.7	-0.1	75	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	42.3	6.2	-25.1
Day Peak (MW)	2062.0	301.0	-1075.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	274.6	-203.9	9.3	-79.7	-0.3	0.0
Actual(MU)	262.2	-203.0	-2.5	-59.2	-1.9	-4.4
O/D/U/D(MU)	-12.5	1.0	-11.9	20.5	-1.5	-4.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6458	15656	5298	3080	444	30935	42
State Sector	6105	22528	10940	3815	130	43518	58
Total	12563	38184	16238	6895	574	74453	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	759	983	437	500	15	2693	60
Lignite	29	5	52	0	0	86	2
Hydro	411	83	166	142	31	834	19
Nuclear	28	32	42	0	0	103	2
Gas, Naptha & Diesel	16	6	8	0	29	59	1
RES (Wind, Solar, Biomass & Others)	136	217	371	5	1	730	16
Total	1379	1327	1076	647	75	4504	100

Share of RES in total generation (%)	9.83	16.36	34.49	0.75	1.02	16.20
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.68	25.05	53.84	22.73	42.68	36.98

H. All India Demand Diversity Factor

Based on Regional Max Demands	1,063
Based on State Max Demands	1,093

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-Aug-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	702	0.0	16.9	-16.9
2	HVDC	PUSAULI B/B	-	0	346	0.0	8.4	-8.4
3	765 kV	GAYA-VARANASI	2	707	220	5.7	0.0	5.7
4	765 kV	SASARAM-FATEHPUR	1	276	185	0.9	0.0	0.9
5	765 kV	GAYA-BALIA	1	0	666	0.0	10.3	-10.3
6	400 kV	PUSAULI-VARANASI	1	0	264	0.0	5.1	-5.1
7	400 kV	PUSAULI-ALLAHABAD	1	0	182	0.0	3.0	-3.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	924	0.0	15.5	-15.5
9	400 kV	PATNA-BALIA	2	0	534	0.0	8.6	-8.6
10	400 kV	NAUBATPUR-BALIA	2	0	571	0.0	8.6	-8.6
11	400 kV	BIHARSHARIF-BALIA	2	24	475	0.0	6.2	-6.2
12	400 kV	MOTHARI-GORAKHPUR	2	0	425	0.0	6.5	-6.5
13	400 kV	BIHARSHARIF-VARANASI	2	279	134	0.9	0.0	0.9
14	220 kV	SAHUPURI-KARAMNANA	1	38	128	0.0	1.3	-1.3
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.6	0.0	0.6
17	132 kV	KARMANASA-SAHUPURI	1	0	29	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
						ER-NR	90.5	-82.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1396	0	19.6	0.0	19.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1653	29	24.4	0.0	24.4
3	765 kV	JHARSUGUDA-DURG	2	156	78	1.4	0.0	1.4
4	400 kV	JHARSUGUDA-RAIGARH	4	237	231	0.0	0.4	-0.4
5	400 kV	RANCHI-SIPAT	2	353	65	4.6	0.0	4.6
6	220 kV	BUDHIPADAR-RAIGARH	1	33	65	0.0	0.4	-0.4
7	220 kV	BUDHIPADAR-KORBA	2	119	52	0.8	0.0	0.8
						ER-WR	50.8	50.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	401	0	9.7	0.0	9.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1637	0.0	33.7	-33.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2286	0.0	41.9	-41.9
4	400 kV	TALCHER-I/C	2	643	254	7.1	0.0	7.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
						ER-SR	9.7	-65.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	61	281	0.0	3.4	-3.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	153	349	0.0	3.8	-3.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	101	0.0	1.5	-1.5
						ER-NER	8.8	-8.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	12.2	-12.2
						NER-NR	12.2	-12.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4026	0.0	44.2	-44.2
2	HVDC	VINDHYACHAL B/B	-	444	0	21.9	0.0	21.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1012	0.0	8.0	-8.0
4	765 kV	GWALIOR-AGRA	2	0	2530	0.0	38.2	-38.2
5	765 kV	GWALIOR-PHAGI	2	404	1618	0.6	19.4	-18.8
6	765 kV	JABALPUR-ORAI	2	0	1162	0.0	30.9	-30.9
7	765 kV	GWALIOR-ORAI	1	627	0	9.9	0.0	9.9
8	765 kV	SATNA-ORAI	1	0	1061	0.0	20.0	-20.0
9	765 kV	BANASKANTHA-CHITORGARH	2	776	126	5.2	0.0	5.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	3707	0.0	66.3	-66.3
11	400 kV	ZERDA-KANKROLI	1	240	35	2.2	0.0	2.2
12	400 kV	ZERDA-BHINMAL	1	531	96	4.4	0.0	4.4
13	400 kV	VINDHYACHAL-RIHAND	1	968	0	11.9	0.0	11.9
14	400 kV	RAPP-SHUJALPUR	2	118	735	0.3	7.1	-6.8
15	220 kV	BHANPURA-RANPUR	1	0	1	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	1.5	0.0	1.5
17	220 kV	MEHGAON-AURAIYA	1	83	7	0.1	0.0	0.1
18	220 kV	MALANPUR-AURAIYA	1	51	37	0.5	0.0	0.5
19	132 kV	GWALIOR-SAWALMADHOPUR	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	58.5	-175.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	980	0	16.5	0.0	16.5
2	HVDC	RAIGARH-PUGALUR	2	1448	2001	0.0	15.1	-15.1
3	765 kV	SOLAPUR-RAICHUR	2	1079	1857	7.3	4.3	3.0
4	765 kV	WARDHA-NIZAMABAD	2	0	3183	0.0	36.6	-36.6
5	400 kV	KOLHAPUR-KUDGI	2	1458	0	27.4	0.0	27.4
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	102	0.7	0.0	0.6
						WR-SR	51.8	-4.3

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)	684	0	645	15.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*70MW))	1079	1043	1044	25.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	256	0	130	3.1
	NER	132kV GELEPHU-SALAKATI	20	7	15	0.4
	NER	132kV MOTANGA-RANGIA	50	33	42	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	375	158	299	7.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-911	-897	-900	-21.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-164	0	-147	-3.5