



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: 16th 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 15.08.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th 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: 16-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)	54100	41863	37972	23747	3101	160783
Peak Shortage (MW)	0	0	0	113	0	113
Energy Met (MU)	1271	975	898	464	57	3666
Hydro Gen (MU)	367	79	173	132	32	783
Wind Gen (MU)	5	148	110	-	-	262
Solar Gen (MU)*	82.93	23.98	85.28	3.98	0.45	197
Energy Shortage (MU)	0.05	0.03	0.00	2.34	0.00	2.42
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61170	43767	41501	24083	3151	161503
Time Of Maximum Demand Met (From NLDC SCADA)	00:01	06:46	12:29	21:15	19:46	21:04

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	0.161	1.83	3.28	9.63	14.73	46.46	38.80

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	10990	0	252.1	155.9	-0.8	212	0.00
	Haryana	8512	0	182.0	118.8	0.1	161	0.00
	Rajasthan	9787	0	218.4	76.4	2.5	470	0.00
	Delhi	5148	0	96.7	86.3	-1.4	136	0.05
	UP	21474	0	406.3	181.8	-9.3	454	0.00
	Uttarakhand	1873	0	39.7	16.8	0.4	222	0.00
	HP	1252	0	26.3	-12.5	-0.5	475	0.00
	J&K(UT) & Ladakh(UT)	2284	0	43.8	20.2	-1.4	205	0.00
	Chandigarh	252	0	5.4	6.2	-0.9	12	0.00
	Chhattisgarh	3175	0	73.0	44.3	0.7	530	0.03
WR	Gujarat	12854	0	295.3	158.4	0.6	906	0.00
	MP	8067	0	174.3	56.3	0.0	618	0.00
	Maharashtra	18639	0	382.7	98.0	0.2	1319	0.00
	Goa	523	0	10.9	10.7	0.2	53	0.00
	DNHDDPDCL	1094	0	20.9	20.8	0.1	84	0.00
	AMNSIL	837	0	18.0	11.6	-0.4	221	0.00
SR	Andhra Pradesh	9465	0	192.2	47.2	1.5	762	0.00
	Telangana	8947	0	162.2	35.0	0.5	586	0.00
	Karnataka	8133	0	158.2	41.2	1.4	857	0.00
	Kerala	3478	0	70.3	28.3	-0.4	207	0.00
	Tamil Nadu	13659	0	307.4	164.0	2.0	745	0.00
	Puducherry	364	0	8.2	7.6	0.0	48	0.00
ER	Bihar	6430	312	100.5	89.8	1.8	614	1.91
	DVC	3201	0	67.2	-28.1	-0.3	343	0.00
	Jharkhand	1390	0	25.4	17.3	-1.1	196	0.43
	Odisha	5818	0	120.8	73.4	-3.5	515	0.00
	West Bengal	7973	0	149.6	36.6	1.4	1184	0.00
	Sikkim	62	0	0.9	1.2	-0.3	27	0.00
NER	Arumachal Pradesh	141	0	2.5	2.1	0.0	35	0.00
	Assam	2061	0	36.0	27.5	-0.2	160	0.00
	Manipur	197	0	2.6	2.7	-0.1	21	0.00
	Meghalaya	315	0	6.2	1.1	0.1	49	0.00
	Mizoram	106	0	1.9	0.6	-0.1	0	0.00
	Nagaland	144	0	2.6	2.4	0.0	17	0.00
	Tripura	290	0	5.6	5.0	-0.1	25	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	43.2	7.9	-25.1
Day Peak (MW)	2027.0	335.5	-1067.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	192.3	-124.4	27.1	-84.3	-10.8	0.0
Actual(MU)	171.7	-112.3	37.9	-91.3	-11.2	-5.2
O/D/U/D(MU)	-20.7	12.1	10.8	-7.0	-0.4	-5.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6884	21866	7758	3220	309	40036	47
State Sector	7775	21368	11250	4250	109	44752	53
Total	14659	43234	19008	7470	418	84788	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	634	812	386	461	13	2305	60
Lignite	23	11	49	0	0	83	2
Hydro	369	79	173	132	32	785	20
Nuclear	29	40	47	0	0	116	3
Gas, Naptha & Diesel	15	5	8	0	29	58	1
RES (Wind, Solar, Biomass & Others)	105	173	235	4	0	517	13
Total	1175	1120	897	597	75	3864	100

Share of RES in total generation (%)	8.92	15.41	26.17	0.68	0.60	13.37
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.78	26.08	50.68	22.76	43.90	36.70

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.075
Based on State Max Demands	1.108

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-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	1153	0.0	27.3	-27.3	
2	HVDC	PUSAULI B/B	2	0	49	0.0	1.1	-1.1	
3	765 kV	GAYALYARANASI	2	366	588	0.7	0.0	0.7	
4	765 kV	SASARAM-FATEHPUR	1	50	431	0.0	3.2	-3.2	
5	765 kV	GAYA-BALIA	1	0	689	0.0	8.5	-8.5	
6	400 kV	PUSAULI-VARANASI	1	7	79	0.0	0.9	-0.9	
7	400 kV	PUSAULI-ALLAHABAD	1	21	65	0.0	0.3	-0.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1123	0.0	15.4	-15.4	
9	400 kV	PATNA-BALIA	2	0	660	0.0	8.7	-8.7	
10	400 kV	NAUBATPUR-BALIA	2	0	723	0.0	9.3	-9.3	
11	400 kV	BIHARSHARIFF-BALIA	2	0	646	0.0	7.7	-7.7	
12	400 kV	MOTIHARI-GORAKHPUR	2	5	520	0.0	6.0	-6.0	
13	400 kV	BIHARSHARIFF-VARANASI	2	157	265	0.0	0.4	-0.4	
14	220 kV	SINPUR-BIKRAMNASHA	1	0	190	0.0	2.4	-2.4	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3	
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	1.0	91.2	-90.2
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	851	184	8.2	0.0	8.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	825	663	12.5	0.0	12.5	
3	765 kV	JHARSUGUDA-DURG	2	118	318	0.0	2.3	-2.3	
4	400 kV	JHARSUGUDA-RAIGARH	4	207	223	0.0	0.3	-0.3	
5	400 kV	RANCHI-SIPAT	2	232	203	1.8	0.0	1.8	
6	220 kV	BUDHIPADAR-RAIGARH	1	118	3	1.3	0.0	1.3	
7	220 kV	BUDHIPADAR-KORBA	2	193	0	3.2	0.0	3.2	
						ER-WR	26.9	2.6	24.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	490	0	12.0	0.0	12.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1648	0.0	39.6	-39.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2465	0.0	35.3	-35.3	
4	400 kV	TALCHER-I/C	2	230	670	0.0	2.1	-2.1	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	12.0	74.9	-63.0
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	107	191	0.0	1.6	-1.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	351	107	2.2	0.0	2.2	
3	220 kV	ALIPURDUAR-SALAKATI	2	28	59	0.0	0.6	-0.6	
						ER-NER	2.2	2.1	0.1
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	501	0.0	12.2	-12.2	
						NER-NR	0.0	12.2	-12.2
Import/Export of WR (With NR)									
1	HVDC	CHAMPAKURUKSHETRA	2	0	714	0.0	16.7	-16.7	
2	HVDC	VINDHYACHAL B/B	2	448	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	511	0.0	7.5	-7.5	
4	765 kV	GWALIOR-AGRA	2	115	1919	0.1	18.8	-18.7	
5	765 kV	GWALIOR-PHAGI	2	543	1599	2.1	18.3	-16.2	
6	765 kV	JABALPUR-ORAI	2	69	792	0.0	15.5	-15.5	
7	765 kV	GWALIOR-ORAI	1	924	0	12.0	0.0	12.0	
8	765 kV	SATNA-ORAI	1	0	933	0.0	14.2	-14.2	
9	765 kV	BANASKANTHA-CHITORGARH	2	1022	412	9.3	0.0	9.3	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2753	0.0	41.5	-41.5	
11	400 kV	ZERDA-KANKROLI	1	224	62	2.4	0.0	2.4	
12	400 kV	ZERDA-JBHINMAL	1	442	136	3.5	0.0	3.5	
13	400 kV	VINDHYACHAL-RIHAND	1	964	0	19.8	0.0	19.8	
14	400 kV	RAPP-SHULIAPUR	2	0	191	0.0	2.3	-2.3	
15	220 kV	BHANPURA-RANPUR	1	0	1	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6	
17	220 kV	MEHGAON-AURAIYA	1	95	0	1.7	0.0	1.7	
18	220 kV	MALANPUR-AURAIYA	1	57	8	0.0	0.0	0.0	
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	63.0	136.4	-73.5
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	493	0	12.0	0.0	12.0	
2	HVDC	RAIGARH-PUGALUR	2	0	1500	0.0	31.1	-31.1	
3	765 kV	SOLAPUR-RAICHUR	2	1598	1349	9.7	4.8	4.9	
4	765 kV	WARDHA-NIZAMABAD	2	174	2272	0.1	24.5	-24.4	
5	400 kV	KOLHAPUR-KUDCI	2	1351	0	22.9	0.0	22.9	
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	63	1.3	0.0	1.3	
						WR-SR	45.9	60.5	-14.5
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)	718	680	703	16.9			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP (6*170MW) 220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	1141	0	1008	24.2			
	ER	132kV GELEPHU-SALAKATI	25	2	18	0.4			
	NER	132kV MOTANGA-RANGIA	46	21	32	0.8			
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-70	0	-30	-0.7			
NEPAL	ER	NEPAL IMPORT (FROM BIHAR)	6	0	-2	0.0			
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	399	263	359	8.6			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-913	-902	-909	-21.8			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-154	0	-136	-3.3			