



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: 19th 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 18.08.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th 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: 19-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)	65816	49382	44182	26055	3167	188602
Peak Shortage (MW)	983	270	0	1669	45	2967
Energy Met (MU)	1497	1116	1083	598	68	4362
Hydro Gen (MU)	405	78	182	131	31	827
Wind Gen (MU)	69	180	107	-	-	355
Solar Gen (MU)*	77.68	41.09	107.95	4.89	0.73	232
Energy Shortage (MU)	5.42	1.39	0.00	8.24	0.02	15.07
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	69109	49799	49912	27048	3330	189631
Time Of Maximum Demand Met (From NLDC SCADA)	22:11	19:38	12:28	00:15	18:45	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	0.065	2.09	0.67	3.22	5.98	77.36	16.65

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	13219	0	302.7	185.6	-1.2	86	0.00
	Haryana	10269	225	221.6	141.1	1.6	247	0.60
	Rajasthan	9535	0	204.1	7.6	-1.4	356	0.00
	Delhi	5808	0	119.9	109.5	-1.9	87	0.00
	UP	25327	110	510.4	217.1	-0.4	475	3.49
	Uttarakhand	2224	0	49.4	26.9	0.9	143	0.98
	HP	1514	0	31.4	-9.1	-0.1	65	0.35
	J&K(UT) & Ladakh(UT)	2690	0	51.1	25.7	0.5	171	0.00
WR	Chandigarh	346	0	7.0	7.2	-0.3	49	0.00
	Chhattisgarh	4374	0	100.4	63.7	0.6	675	0.00
	Gujarat	12768	0	287.8	132.4	-8.5	599	0.00
	MP	9551	0	213.5	101.8	0.0	958	1.39
	Maharashtra	20834	0	454.9	163.8	-0.6	1028	0.00
	Goa	613	0	12.7	13.1	-0.4	53	0.00
	DNHDDPDCL	1179	0	27.6	27.4	0.2	112	0.00
	AMNSIL	841	0	19.0	11.5	0.6	315	0.00
SR	Andhra Pradesh	10215	0	211.6	65.7	2.0	640	0.00
	Telangana	12214	0	220.4	62.3	3.2	1853	0.00
	Karnataka	10634	0	219.0	57.5	-1.8	567	0.00
	Kerala	3739	0	79.3	39.0	-1.3	190	0.00
	Tamil Nadu	15982	0	343.3	176.1	1.3	1195	0.00
	Puducherry	425	0	9.5	8.9	-0.1	77	0.00
ER	Bihar	6810	117	143.4	128.7	4.6	369	6.18
	DVC	3450	0	75.1	-35.3	1.2	238	0.00
	Jharkhand	1545	0	33.6	25.1	-0.9	136	2.06
	Odisha	6300	0	138.3	74.7	-0.9	327	0.00
	West Bengal	9712	0	205.6	82.3	1.6	601	0.00
	Sikkim	98	0	1.6	1.6	0.0	21	0.00
NER	Arumachal Pradesh	139	0	2.6	2.4	-0.2	42	0.00
	Assam	2250	0	47.2	39.4	0.7	240	0.02
	Manipur	180	0	2.6	2.7	0.0	14	0.00
	Merhalava	323	0	5.9	1.3	0.2	61	0.00
	Mizoram	110	0	1.7	0.5	-0.1	5	0.00
	Nagaland	157	0	2.8	2.4	0.0	20	0.00
	Tripura	281	0	5.6	5.4	0.2	116	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	38.9	4.1	-25.6
Day Peak (MW)	1853.0	239.2	-1089.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	194.5	-155.5	37.1	-74.3	-1.8	0.0
Actual(MU)	181.3	-169.3	43.6	-59.0	-1.1	-4.5
O/D/UD(MU)	-13.2	-13.9	6.6	15.2	0.8	-4.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3802	18276	5268	1820	309	29474	40
State Sector	6905	23581	9105	3605	130	43326	60
Total	10707	41857	14373	5425	439	72800	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	766	956	510	558	16	2806	62
Lignite	21	8	59	0	0	88	2
Hydro	408	78	182	131	31	829	18
Nuclear	30	40	42	0	0	112	2
Gas, Naptha & Diesel	18	6	8	0	29	61	1
RES (Wind, Solar, Biomass & Others)	164	271	261	5	1	652	14
Total	1407	1309	1061	694	76	4548	100
Share of RES in total generation (%)	11.66	16.90	24.58	0.71	0.96	12.93	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.77	25.91	45.69	19.59	41.31	33.98	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.050
Based on State Max Demands	1.085

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: 19-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	1151	0.0	28.1	-28.1	
2	HVDC	PUSAULI B/B	-	0	397	0.0	3.7	-3.7	
3	765 kV	GAYA-VARANASI	2	808	219	5.9	0.0	5.9	
4	765 kV	SASARAM-FATEHPUR	1	193	117	0.0	0.0	-0.2	
5	765 kV	GAYA-BALIA	1	0	590	0.0	7.7	-7.7	
6	400 kV	PUSAULI-VARANASI	1	0	275	0.0	2.8	-2.8	
7	400 kV	PUSAULI-ALLAHABAD	1	43	186	0.0	0.9	-0.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	849	0.0	10.7	-10.7	
9	400 kV	PATNA-BALIA	2	53	378	0.0	4.8	-4.8	
10	400 kV	NAUBATPUR-BALIA	2	92	391	0.0	4.6	-4.6	
11	400 kV	BIHARSHARIF-BALIA	2	244	219	0.0	0.9	-0.9	
12	400 kV	MOTHARI-GORAKHPUR	2	0	417	0.0	5.8	-5.8	
13	400 kV	BIHARSHARIF-VARANASI	2	296	121	1.4	0.0	1.4	
14	220 kV	SAHUPURI-KARAMNANA	1	20	141	0.0	1.8	-1.8	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1	
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3	
17	132 kV	KARMANASA-SAHUPURI	1	0	64	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	7.7	71.8	-64.2
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1171	63	12.5	0.0	12.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1470	191	21.3	0.0	21.3	
3	765 kV	JHARSUGUDA-DURG	2	91	197	0.0	1.0	-1.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	119	397	0.0	3.2	-3.2	
5	400 kV	RANCHI-SIPAT	2	343	118	4.2	0.0	4.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	77	83	0.2	0.0	0.2	
7	220 kV	BUDHIPADAR-KORBA	2	140	90	1.1	0.0	1.1	
						ER-WR	39.2	4.2	35.0
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	299	0	7.4	0.0	7.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1439	0.0	31.8	-31.8	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2689	0.0	41.5	-41.5	
4	400 kV	TALCHER-JC	2	727	0	11.8	0.0	11.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	7.4	73.3	-65.9
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	360	0.0	5.7	-5.7	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	136	297	0.0	3.0	-3.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	97	0.0	1.5	-1.5	
						ER-NER	0.0	10.2	-10.2
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	1008	0.0	16.1	-16.1	
2	HVDC	VINDHYACHAL B/B	-	446	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	311	0.0	3.3	-3.3	
4	765 kV	GWALIOR-AGRA	2	0	2172	0.0	33.7	-33.7	
5	765 kV	GWALIOR-PHAGI	2	732	1231	1.5	10.7	-9.2	
6	765 kV	JABALPUR-ORAI	2	71	886	0.0	20.0	-20.0	
7	765 kV	GWALIOR-ORAI	1	714	0	0.0	11.1	-11.1	
8	765 kV	SATNA-ORAI	1	0	951	0.0	16.7	-16.7	
9	765 kV	BANASKANTHA-CHITORGARH	2	195	856	0.0	8.3	-8.3	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3408	0.0	59.2	-59.2	
11	400 kV	ZERDA-KANKROLI	1	191	38	1.5	0.0	1.5	
12	400 kV	ZERDA-BHINMAL	1	534	0	8.5	0.0	8.5	
13	400 kV	VINDHYACHAL-RIHAND	1	960	0	21.7	0.0	21.7	
14	400 kV	RAPP-SHUJALPUR	2	436	381	1.6	0.0	1.6	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.9	-1.9	
17	220 kV	MEHGAON-AURAIYA	1	109	0	0.6	0.0	0.5	
18	220 kV	MALANPUR-AURAIYA	1	71	15	1.3	0.0	1.3	
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	59.9	169.8	-109.9
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	984	0	13.7	0.0	13.7	
2	HVDC	RAIGARH-PUGALUR	2	0	1500	0.0	27.7	-27.7	
3	765 kV	SOLAPUR-RAICHUR	2	1401	1965	6.0	8.6	-2.6	
4	765 kV	WARDHA-NIZAMABAD	2	129	3087	0.1	35.1	-35.0	
5	400 kV	KOLHAPUR-KUDGI	2	1396	0	25.5	0.0	25.5	
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	79	1.5	0.0	1.5	
						WR-SR	46.8	71.3	-24.5

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)	664	0	515	12.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (5*170MW))	1034	0	948	22.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	258	0	203	4.9
	NER	132kV GELEPHU-SALAKATI	-16	-3	-10	-0.2
	NER	132kV MOTANGA-RANGIA	-44	-17	-34	-0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-61	-1.5
	ER	NEPAL IMPORT (FROM BIHAR)	-16	0	-2	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	329	147	236	5.7
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-929	-917	-921	-22.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-160	0	-145	-3.5