



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: 01st 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 31.07.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-जुलाई-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 31st July 2022, is available at the NLDC website.

धन्यवाद,

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 01-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)	53795	51654	38805	24041	2926	171221
Peak Shortage (MW)	0	0	0	536	0	536
Energy Met (MU)	1210	1190	937	550	55	3943
Hydro Gen (MU)	337	94	126	129	35	722
Wind Gen (MU)	54	140	33	-	-	227
Solar Gen (MU)*	100.41	42.28	101.71	4.42	0.29	249
Energy Shortage (MU)	1.12	0.00	0.00	1.31	0.00	2.43
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57035	51311	43877	26386	2926	172893
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	19:56	11:56	00:00	19:00	19:56

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	0.034	0.00	0.00	0.24	0.24	67.40	32.36

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	9273	0	191.8	132.6	-5.2	203	0.00
	Haryana	7392	0	152.4	96.9	-2.8	184	0.00
	Rajasthan	10467	0	230.8	17.8	-4.7	99	0.00
	Delhi	5070	0	98.4	92.4	-6.0	123	0.00
	UP	21688	0	418.8	191.2	2.5	719	1.12
	Uttarakhand	1892	0	40.6	20.0	0.2	125	0.00
	HP	1427	0	27.5	-6.0	1.9	294	0.00
	J&K(UT) & Ladakh(UT)	1839	0	44.4	27.0	-6.9	87	0.00
WR	Chandigarh	242	0	5.1	5.7	-0.7	21	0.00
	Chhattisgarh	4831	0	115.5	62.5	0.8	220	0.00
	Gujarat	14890	0	336.6	164.0	-3.0	1040	0.00
	MP	10237	0	228.1	101.4	0.0	505	0.00
	Maharashtra	20275	0	452.1	196.4	-3.0	1007	0.00
	Goa	574	0	11.8	12.1	-0.3	72	0.00
	DNHDDPDCL	1140	0	26.1	26.1	0.0	63	0.00
SR	AMNSIL	924	0	20.0	11.4	-0.1	286	0.00
	Andhra Pradesh	9393	0	198.5	95.3	1.4	676	0.00
	Telangana	12056	0	218.9	89.2	4.0	884	0.00
	Karnataka	7712	0	155.4	41.2	0.5	592	0.00
	Kerala	3275	0	68.6	31.1	-0.7	359	0.00
	Tamil Nadu	12697	0	287.0	143.2	-0.5	723	0.00
	Puducherry	397	0	9.0	8.4	-0.1	30	0.00
ER	Bihar	6264	0	119.3	109.9	-0.6	331	0.59
	DVC	3598	0	74.2	-31.0	-0.8	365	0.00
	Jharkhand	1662	0	32.8	26.0	-0.8	165	0.73
	Odisha	6442	0	139.4	74.0	0.7	386	0.00
	West Bengal	9309	0	183.6	58.4	1.0	572	0.00
	Sikkim	67	0	1.0	1.0	0.0	21	0.00
NER	Arunachal Pradesh	126	0	2.5	2.3	-0.2	6	0.00
	Assam	1872	0	34.4	26.8	-0.1	88	0.00
	Manipur	174	0	2.7	2.6	0.0	22	0.00
	Meghalaya	324	0	5.9	0.1	-0.1	24	0.00
	Mizoram	93	0	1.7	0.7	-0.1	13	0.00
	Nagaland	139	0	2.8	2.3	0.0	7	0.00
	Tripura	298	0	5.3	5.7	-0.2	54	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	41.8	9.5	-25.1
Day Peak (MW)	1824.0	407.0	-1071.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	120.3	-90.5	80.9	-96.0	-14.7	0.0
Actual(MU)	69.2	-74.5	104.6	-88.1	-15.1	-3.9
OD/UD(MU)	-51.1	16.0	23.7	7.9	-0.4	-3.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4025	16166	7138	1490	559	29377	44
State Sector	7535	18231	9092	2213	99	37169	56
Total	11560	34397	16230	3703	658	66546	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	640	967	454	532	12	2605	63
Lignite	26	11	57	0	0	94	2
Hydro	339	94	126	129	35	724	18
Nuclear	29	33	46	0	0	108	3
Gas, Naptha & Diesel	16	3	10	0	30	59	1
RES (Wind, Solar, Biomass & Others)	172	183	180	4	0	539	13
Total	1222	1291	872	665	78	4128	100
Share of RES in total generation (%)	14.04	14.18	20.58	0.67	0.37	13.05	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.20	24.03	40.32	20.04	45.85	33.21	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.050
Based on State Max Demands	1.088

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: 01-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	1002	0.0	25.4	-25.4	
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.1	-1.1	
3	765 kV	GAYA-VARANASI	2	655	213	5.0	0.0	5.0	
4	765 kV	SASARAM-FATEHPUR	1	225	222	0.0	0.7	-0.7	
5	765 kV	GAYA-BALIA	1	191	426	0.0	2.1	-2.1	
6	400 kV	PUSAULI-VARANASI	1	0	78	0.0	0.9	-0.9	
7	400 kV	PUSAULI-ALLAHABAD	1	20	58	0.0	0.2	-0.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	817	0.0	11.3	-11.3	
9	400 kV	PATNA-BALIA	2	6	503	0.0	5.5	-5.5	
10	400 kV	NAUBATPUR-BALIA	2	43	531	0.0	5.7	-5.7	
11	400 kV	BHARSHARIFF-BALIA	2	173	317	0.0	1.6	-1.6	
12	400 kV	MOTIHARI-GORAKHPUR	2	39	407	0.0	5.1	-5.1	
13	400 kV	BHARSHARIFF-VARANASI	2	254	154	1.1	0.0	1.1	
14	220 kV	SAHUPUR-KARMANASA	1	0	152	0.0	2.2	-2.2	
15	132 kV	NAGAR UNTARI-BIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-BIHAND	1	25	0	0.2	0.0	0.2	
17	132 kV	KARMANASA-SAHUPURI	1	0	67	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	6.3	61.9	-55.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	22.9	0.0	22.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	966	432	10.0	0.0	10.0	
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	1.8	-1.8	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	2.0	-2.0	
5	400 kV	RANCHI-SIPAT	2	210	143	1.5	0.0	1.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	58	61	0.0	0.0	0.0	
7	220 kV	BUDHIPADAR-KORBA	2	171	0	2.2	0.0	2.2	
						ER-WR	36.6	3.8	32.8
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	655	0.0	15.0	-15.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1991	0.0	46.1	-46.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2611	0.0	38.6	-38.6	
4	400 kV	TALCHER-J/C	2	67	1245	0.0	10.7	-10.7	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	99.6	-99.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	38	222	0.1	1.9	-1.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	218	160	0.9	0.0	0.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	16	50	0.0	0.3	-0.3	
						ER-NER	0.9	2.2	-1.2
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	16.9	-16.9	
						NER-NR	0.0	16.9	-16.9
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1511	0.0	7.7	-7.7	
2	HVDC	VINDHYACHAL B/B	-	445	0	12.2	0.0	12.2	
3	HVDC	MUNDRAMOHINDERGARH	2	0	309	0.0	0.0	0.0	
4	765 kV	GWALIOR-AGRA	2	699	1237	0.0	6.7	-6.7	
5	765 kV	GWALIOR-PHAGI	2	1848	694	6.5	0.0	6.5	
6	765 kV	JABALPUR-ORAI	2	294	461	0.0	4.3	-4.3	
7	765 kV	GWALIOR-ORAI	1	611	208	6.5	0.0	6.5	
8	765 kV	SATNA-ORAI	1	0	811	0.0	12.3	-12.3	
9	765 kV	BANASKANTHA-CHITORGARH	2	1059	131	8.2	0.0	8.2	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2587	0.0	43.1	-43.1	
11	400 kV	ZERDA-KANKROLI	1	310	0	4.0	0.0	4.0	
12	400 kV	ZERDA-BHINMAL	1	728	0	10.7	0.0	10.7	
13	400 kV	VINDHYACHAL-BIHAND	1	957	0	18.6	0.0	18.6	
14	400 kV	KAPP-SHUALPUR	2	816	113	7.4	0.0	7.4	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3	
17	220 kV	MEHGAON-AURAIYA	1	143	0	1.4	0.0	1.4	
18	220 kV	MALANPUR-AURAIYA	1	103	0	2.2	0.0	2.2	
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
20	132 kV	RAIGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	77.6	76.5	1.1
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	2505	0.0	38.0	-38.0	
3	765 kV	SOLAPUR-RAICHUR	2	861	1470	0.0	2.2	-2.2	
4	765 kV	WARDHA-NIZAMABAD	2	0	3110	0.0	43.4	-43.4	
5	400 kV	KOLHAPUR-KUDGI	2	1452	0	26.7	0.0	26.7	
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	108	2.0	0.0	2.0	
						WR-SR	40.7	83.6	-42.9
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)	612	593	612	14.7			
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*150MW)	1011	997	999	24.0			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	191	0	165	4.0			
	NER	132kV GELEPHU-SALAKATI	-13	-5	-9	-0.2			
	NER	132kV MOTANGA-RANGIA	-40	-16	-24	-0.6			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-54	0	-9	-0.2			
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0			
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	461	348	403	9.7			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-914	-867	-891	-21.4			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-157	0	-156	-3.7			