



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:13th August 2021

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 12.08.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-अगस्त-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 12th August 2021, 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: 13-Aug-2021

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)	63091	55833	42808	22644	2982	187358
Peak Shortage (MW)	1331	0	0	0	0	1331
Energy Met (MU)	1464	1328	1075	502	59	4428
Hydro Gen (MU)	375	41	171	116	33	736
Wind Gen (MU)	38	111	169	-	-	319
Solar Gen (MU)*	57.62	32.61	81.62	4.16	0.17	176
Energy Shortage (MU)	8.03	0.00	0.00	0.00	0.00	8.03
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65363	57450	52529	22884	2990	194696
Time Of Maximum Demand Met (From NLDC SCADA)	12:43	15:00	09:49	00:00	19:44	12:41

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	0.020	0.00	0.00	1.75	1.75	84.21	14.04

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	12800	0	288.5	165.3	-1.0	193	0.00
	Haryana	10568	0	226.3	170.8	-0.1	266	0.00
	Rajasthan	12309	0	270.5	70.3	4.0	813	1.81
	Delhi	5903	0	119.9	107.2	-1.2	143	0.00
	UP	21118	620	425.6	182.2	1.5	692	2.35
	Uttarakhand	2051	0	45.6	17.4	1.4	143	0.42
	HP	1540	0	34.2	-5.8	-1.0	44	0.00
	J&K(UT) & Ladakh(UT)	2389	250	46.6	21.9	-0.6	223	3.45
	Chandigarh	350	0	6.5	6.5	0.0	36	0.00
	WR	Chhattisgarh	4687	0	113.6	55.4	1.2	255
Gujarat		18845	0	414.2	178.1	-0.1	622	0.00
MP		9580	0	213.5	113.8	1.1	534	0.00
Maharashtra		24303	0	529.2	163.7	6.0	572	0.00
Goa		592	0	12.5	11.7	0.4	45	0.00
DD		333	0	7.5	7.0	0.5	81	0.00
DNH		863	0	20.0	19.9	0.1	52	0.00
AMNSIL		800	0	17.6	8.4	-0.1	297	0.00
SR	Andhra Pradesh	10615	0	212.3	68.5	-1.0	637	0.00
	Telangana	12855	0	251.0	96.4	0.5	701	0.00
	Karnataka	11213	0	202.3	18.8	1.0	1058	0.00
	Kerala	3457	0	69.3	29.7	0.0	688	0.00
	Tamil Nadu	14947	0	331.5	119.5	-1.4	574	0.00
	Puducherry	414	0	8.6	8.9	-0.3	31	0.00
ER	Bihar	5917	0	111.1	108.5	-3.0	305	0.00
	DVC	3116	0	67.8	-40.5	3.8	389	0.00
	Jharkhand	1440	0	28.6	23.5	-1.9	227	0.00
	Odisha	5000	0	109.9	32.1	-1.0	317	0.00
	West Bengal	8782	0	182.8	50.7	0.9	406	0.00
NER	Sikkim	87	0	1.4	1.4	0.0	28	0.00
	Arunachal Pradesh	128	0	2.3	2.5	-0.2	48	0.00
	Assam	1957	0	38.9	29.4	1.7	154	0.00
	Manipur	202	0	2.5	2.5	0.0	35	0.00
	Meghalaya	318	0	6.0	0.9	0.1	46	0.00
	Mizoram	91	0	1.5	1.3	-0.1	15	0.00
	Nagaland	141	0	2.6	2.1	0.0	31	0.00
	Tripura	293	0	5.4	5.7	0.1	64	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	19.5	-0.6	-20.2
Day Peak (MW)	1294.0	-156.9	-868.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	279.2	-166.5	14.1	-120.7	-6.1	0.0
Actual(MU)	266.8	-161.5	12.6	-114.1	-7.7	-3.8
O/D/U/D(MU)	-12.4	5.0	-1.5	6.7	-1.6	-3.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5662	16306	9732	1605	659	33963	50
State Sector	7510	15745	7175	3875	11	34316	50
Total	13172	32051	16907	5480	670	68279	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	660	1246	551	521	10	2987	66
Lignite	25	11	44	0	0	80	2
Hvdro	375	41	171	116	33	736	16
Nuclear	15	33	19	0	0	66	1
Gas, Naptha & Diesel	25	29	11	0	29	93	2
RES (Wind, Solar, Biomass & Others)	118	144	283	4	0	549	12
Total	1217	1503	1078	641	72	4512	100
Share of RES in total generation (%)	9.68	9.60	26.22	0.65	0.24	12.17	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.71	14.51	43.83	18.75	46.15	29.96	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.079

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: 13-Aug-2021

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	1000	0.0	23.6	-23.6	
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	2	101	354	0.0	2.7	-2.7	
4	765 kV	SASARAM-FATEHPUR	1	0	293	0.0	4.3	-4.3	
5	765 kV	GAYA-BALIA	1	0	510	0.0	7.6	-7.6	
6	400 kV	PUSAULI-VARANASI	1	0	166	0.0	3.3	-3.3	
7	400 kV	PUSAULI-ALLAHABAD	1	0	133	0.0	2.5	-2.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	474	0.0	6.3	-6.3	
9	400 kV	PATNA-BALIA	4	0	941	0.0	14.9	-14.9	
10	400 kV	BIHARSHARIFF-BALIA	2	0	200	0.0	1.8	-1.8	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	340	0.0	4.8	-4.8	
12	400 kV	BIHARSHARIFF-VARANASI	2	51	94	0.0	0.1	-0.1	
13	220 kV	PUSAULI-SAHUPURI	1	15	82	0.0	1.2	-1.2	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.6	0.0	0.6	
16	132 kV	KARMANASA-SAHUPURI	1	4	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.6	79.0	-78.4
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	828	247	4.1	0.0	4.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1307	0	17.7	0.0	17.7	
3	765 kV	JHARSUGUDA-DURG	2	152	119	0.3	0.0	0.3	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	544	0.0	6.5	-6.5	
5	400 kV	RANCHI-SIPAT	2	293	57	3.2	0.0	3.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	155	0.0	2.4	-2.4	
7	220 kV	BUDHIPADAR-KORBA	2	75	23	0.9	0.0	0.9	
						ER-WR	26.1	8.9	17.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	469	0.0	10.4	-10.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1981	0.0	35.7	-35.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2594	0.0	41.3	-41.3	
4	400 kV	TALCHER-I/C	2	233	663	0.0	2.5	-2.5	
5	220 kV	BALMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	87.4	-87.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	80	234	0.0	2.4	-2.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	223	216	0.1	0.0	0.1	
3	220 kV	ALIPURDUAR-SALAKATI	2	8	84	0.0	0.8	-0.8	
						ER-NER	0.1	3.3	-3.1
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.2	-12.2	
						NER-NR	0.0	12.2	-12.2
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3019	0.0	51.6	-51.6	
2	HVDC	VINDHYACHAL B/B	-	0	0	0.0	0.0	0.0	
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	978	0.0	21.4	-21.4	
4	765 kV	GWALIOR-AGRA	2	37	1951	0.0	32.9	-32.9	
5	765 kV	GWALIOR-PHAGI	2	0	1763	0.0	30.5	-30.5	
6	765 kV	JABALPUR-ORAI	2	824	1136	0.0	38.9	-38.9	
7	765 kV	GWALIOR-ORAI	1	809	0	14.1	0.0	14.1	
8	765 kV	SATNA-ORAI	1	0	911	0.0	19.3	-19.3	
9	765 kV	BANASKANTHA-CHITORGARH	2	1443	0	16.0	0.0	16.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3044	0.0	48.7	-48.7	
11	400 kV	ZERDA-KANKROLI	1	266	0	5.0	0.0	5.0	
12	400 kV	ZERDA - BHNMAL	1	526	0	7.8	0.0	7.8	
13	400 kV	VINDHYACHAL -RIHAND	1	972	0	22.2	0.0	22.2	
14	400 kV	RAPP-SHUALPUR	2	0	529	0.0	5.7	-5.7	
15	220 kV	BHANPURA-RANPUR	1	0	89	0.0	1.4	-1.4	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9	
17	220 kV	MEHGAON-AURAIYA	1	121	0	0.8	0.0	0.8	
18	220 kV	MALANPUR-AURAIYA	1	85	6	1.5	0.0	1.5	
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	67.3	251.2	-183.9
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	794	0	13.3	0.0	13.3	
2	HVDC	RAIGARH-PUGALUR	2	966	0	16.1	0.0	16.1	
3	765 kV	SOLAPUR-RAICHUR	2	1838	592	17.5	0.0	17.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	2510	0.0	31.1	-31.1	
5	400 kV	KOLHAPUR-KUDGI	2	1316	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	74	0.0	1.4	1.4	
						WR-SR	71.2	31.1	40.2

INTERNATIONAL EXCHANGES			Import(+ve)/Export(-ve) Energy Exchange (MU)			
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)	668	0	541	13.0
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	292	0	23	0.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	243	0	188	4.5
	NER	132kV GELEPHU-SALAKATI	36	9	20	0.5
	NER	132kV MOTANGA-RANGIA	56	6	43	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-49	0	-21	-0.5
	ER	NEPAL IMPORT (FROM BIHAR)	-58	-1	-12	-0.3
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-50	75	8	0.2
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-709	-701	-703	-16.9
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-159	0	-139	-3.3