



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: 04th 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 03.08.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-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 03rd 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: 04-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)	55103	46758	41752	22660	3067	169340
Peak Shortage (MW)	1976	0	0	0	0	1976
Energy Met (MU)	1260	1087	1060	493	59	3959
Hydro Gen (MU)	373	28	174	144	32	751
Wind Gen (MU)	32	222	237	-	-	491
Solar Gen (MU)*	48.46	20.80	96.18	4.75	0.20	170
Energy Shortage (MU)	7.91	0.00	0.00	0.00	0.04	7.95
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58292	47721	50863	22886	3079	175137
Time Of Maximum Demand Met (From NLDC SCADA)	22:40	09:25	09:30	19:57	19:00	10:41

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	0.070	0.76	2.99	12.72	16.47	72.89	10.65

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	10247	0	236.7	166.4	-1.4	103	0.00
	Haryana	8357	0	181.4	153.2	-0.3	153	1.14
	Rajasthan	9272	0	207.9	60.7	0.8	609	1.52
	Delhi	5100	0	107.4	95.0	-1.5	67	0.01
	UP	20220	170	404.0	215.4	0.5	722	0.78
	Uttarakhand	1959	0	43.7	16.3	0.5	212	1.01
	HP	1439	0	28.0	-7.9	-4.3	0	0.00
	J&K(UT) & Ladakh(UT)	2273	100	45.1	18.9	0.9	332	3.45
	Chandigarh	278	0	5.8	5.9	-0.1	34	0.00
	Chhattisgarh	3963	0	91.8	40.1	0.4	260	0.00
WR	Gujarat	14820	0	319.7	142.5	4.1	912	0.00
	MP	7678	0	166.7	77.9	-1.3	404	0.00
	Maharashtra	20912	0	450.8	126.5	5.4	1194	0.00
	Goa	555	0	12.0	11.7	0.1	33	0.00
	DD	323	0	7.3	6.9	0.4	45	0.00
	DNH	818	0	19.0	18.6	0.4	131	0.00
	AMNSIL	878	0	19.3	7.3	-0.3	301	0.00
	Andhra Pradesh	10414	0	209.6	45.3	-0.1	629	0.00
	Telangana	12032	0	233.7	89.1	0.2	682	0.00
	Karnataka	10802	0	195.6	25.5	-0.5	612	0.00
SR	Kerala	3290	0	69.6	28.1	-1.1	191	0.00
	Tamil Nadu	15388	0	342.3	125.3	-3.4	606	0.00
	Puducherry	452	0	9.1	9.0	0.1	62	0.00
	Bihar	6285	0	124.5	116.6	2.0	526	0.00
	DVC	2989	0	64.8	-29.8	-1.1	155	0.00
	Jharkhand	1447	0	27.4	23.8	-3.5	91	0.00
	Odisha	5041	0	103.7	36.3	0.3	399	0.00
	West Bengal	8184	0	171.4	56.2	-0.2	398	0.00
	Sikkim	85	0	1.3	1.4	-0.1	20	0.00
	Arunachal Pradesh	140	0	2.4	2.6	-0.2	41	0.00
ER	Assam	2028	0	39.8	31.3	1.3	110	0.00
	Manipur	203	0	2.5	2.4	0.1	50	0.00
	Meghalaya	359	0	5.7	-0.1	0.3	56	0.00
	Mizoram	94	0	1.5	1.3	0.0	20	0.00
	Nagaland	132	0	2.4	2.3	-0.4	18	0.00
	Tripura	287	0	5.0	6.0	-0.2	40	0.04

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	48.7	-5.1	-19.9
Day Peak (MW)	2068.0	-518.7	-853.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	329.2	-216.9	7.2	-115.7	-3.9	0.0
Actual(MU)	321.3	-210.8	-0.2	-113.0	-3.0	-5.6
O/D/U/D(MU)	-7.9	6.1	-7.3	2.7	0.9	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8970	20500	9532	1260	409	40670	43
State Sector	14600	23773	10138	5045	47	53602	57
Total	23570	44272	19670	6305	455	94272	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	425	967	442	486	9	2329	58
Lignite	24	7	33	0	0	64	2
Hydro	373	28	175	144	32	751	19
Nuclear	26	28	42	0	0	97	2
Gas, Naptha & Diesel	23	34	10	0	28	95	2
RES (Wind, Solar, Biomass & Others)	102	243	363	5	0	714	18
Total	974	1307	1066	635	68	4050	100

Share of RES in total generation (%)	10.52	18.62	34.09	0.74	0.29	17.63
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	51.50	22.92	54.40	23.39	46.84	38.55

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.044
Based on State Max Demands	1.078

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)

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Date of Reporting: 04-Aug-2021			
						Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	2	0	1001	0.0	20.9	-20.9	
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	2	169	299	0.0	2.5	-2.5	
4	765 kV	SASARAML-FATEHPUR	1	99	135	0.0	0.7	-0.7	
5	765 kV	GAYA-BALIA	1	0	532	0.0	8.8	-8.8	
6	400 kV	PUSAULLY-VARANASI	1	0	170	0.0	3.4	-3.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	155	0.0	2.7	-2.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	683	0.0	12.4	-12.4	
9	400 kV	PATNA-BALIA	4	0	891	0.0	16.7	-16.7	
10	400 kV	BIHARSHARIFF-BALIA	2	0	267	0.0	4.1	-4.1	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	421	0.0	7.5	-7.5	
12	400 kV	BIHARSHARIFF-VARANASI	2	52	168	0.0	1.1	-1.1	
13	220 kV	PUSAULI-SAHUPURI	1	0	125	0.0	2.3	-2.3	
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	0	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	88.9	-88.3
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1044	169	8.1	0.0	8.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1157	0	19.6	0.0	19.6	
3	765 kV	JHARSUGUDA-DURG	2	125	13	1.2	0.0	1.2	
4	400 kV	JHARSUGUDA-RAIGARH	4	74	318	0.0	3.7	-3.7	
5	400 kV	RANCHI-SIPAT	2	257	0	3.9	0.0	3.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	18	80	0.0	0.9	-0.9	
7	220 kV	BUDHIPADAR-KORBA	2	172	0	2.5	0.0	2.5	
						ER-WR	35.2	4.5	30.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	507	0.0	11.2	-11.2	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1786	0.0	37.4	-37.4	
3	765 kV	ANGUL-SIRSAKULAM	2	0	2238	0.0	33.8	-33.8	
4	400 kV	TALCHER-IC	2	12	819	0.0	6.7	-6.7	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	82.5	-82.5
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	58	304	0.0	3.4	-3.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	84	341	0.0	2.9	-2.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	81	0.0	1.0	-1.0	
						ER-NER	0.0	7.4	-7.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	505	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	3524	0.0	51.1	-51.1	
2	HVDC	VINDHYACHAL B/B	-	244	52	0.8	1.0	-0.2	
3	HVDC	MUNDIRA-MOHINDERGARH	2	0	1917	0.0	34.8	-34.8	
4	765 kV	GWALIOR-AGRA	2	0	2166	0.0	39.8	-39.8	
5	765 kV	GWALIOR-PHAGI	2	0	1576	0.0	26.1	-26.1	
6	765 kV	JABALPUR-ORAI	2	0	932	0.0	34.8	-34.8	
7	765 kV	GWALIOR-ORAI	1	624	0	11.8	0.0	11.8	
8	765 kV	SATNA-ORAI	1	0	814	0.0	18.1	-18.1	
9	765 kV	BANASKANTHA-CHITORGARH	2	489	201	2.2	0.0	2.2	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3044	0.0	57.4	-57.4	
11	400 kV	ZERDA-KANKROLI	1	190	0	2.5	0.0	2.5	
12	400 kV	ZERDA-BHINMAL	1	335	4	4.1	0.0	4.1	
13	400 kV	VINDHYACHAL-RIHAND	1	922	0	20.9	0.0	20.9	
14	400 kV	RAPP-SHUJALPUR	2	0	501	0.0	6.7	-6.7	
15	220 kV	BHANPURA-RANPUR	1	0	127	0.0	2.1	-2.1	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0	
17	220 kV	MEHGAON-AURAIYA	1	53	19	0.1	0.3	-0.2	
18	220 kV	MALANPUR-AURAIYA	1	32	31	0.3	0.1	0.1	
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	42.7	274.2	-231.5
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	297	0	7.4	0.0	7.4	
2	HVDC	RAIGARH-PUGALUR	2	970	0	23.5	0.0	23.5	
3	765 kV	SOLAPUR-RAICHUR	2	1608	402	21.0	0.0	21.0	
4	765 kV	WARDHA-NIZAMABAD	2	109	2133	0.0	22.7	-22.7	
5	400 kV	KOLHAPUR-KUDGI	2	1193	0	20.0	0.0	20.0	
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	78	1.5	0.0	1.5	
						WR-SR	73.3	22.7	50.6

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)	639	629	635	15.2	
	ER	400kV TALA-BINAGURI 1,2,4 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1039	1027	1030	24.7	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	293	0	270	6.5	
	NER	132kV GELEPHU-SALAKATI	23	13	20	0.5	
	NER	132kV MOTANGA-RANGIA	75	40	74	1.8	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-53	0	-30	-0.7	
	ER	NEPAL IMPORT (FROM BIHAR)	-211	-10	-82	-2.0	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-255	28	-100	-2.4	
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-718	-687	-700	-16.8	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-135	0	-130	-3.1	