



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:15th 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 14.08.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14th 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: 15-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)	66576	55807	42215	23114	2948	190660
Peak Shortage (MW)	615	304	0	0	4	923
Energy Met (MU)	1519	1323	1034	509	56	4441
Hydro Gen (MU)	363	36	133	125	33	690
Wind Gen (MU)	56	151	194	-	-	401
Solar Gen (MU)*	57.88	35.39	87.93	4.22	0.17	186
Energy Shortage (MU)	4.09	2.70	0.00	0.00	0.00	6.79
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	69477	57296	49123	23721	2995	193038
Time Of Maximum Demand Met (From NLDC SCADA)	22:19	09:44	09:26	21:16	18:35	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	0.029	0.00	0.00	1.72	1.72	73.41	24.87

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	13113	0	303.6	170.6	-2.4	121	0.00
	Haryana	10598	0	231.8	171.8	-0.4	211	0.00
	Rajasthan	12814	0	283.6	65.6	0.4	349	0.00
	Delhi	5897	0	117.6	105.0	-1.2	166	0.05
	UP	23545	0	453.2	203.5	-1.0	270	0.17
	Uttarakhand	1982	0	44.6	17.0	0.7	144	0.42
	HP	1515	0	33.5	-6.5	-0.5	141	0.00
	J&K(UT) & Ladakh(UT)	2358	250	45.2	20.9	-1.1	200	3.45
WR	Chhattisgarh	292	0	6.0	6.3	-0.3	4	0.00
	Gujarat	4785	0	112.9	58.0	-1.0	411	2.70
	Maharashtra	18644	0	407.3	168.3	0.8	788	0.00
	MP	10208	0	230.6	132.0	0.4	761	0.00
	Goa	23556	0	515.0	156.1	-1.4	693	0.00
	DD	591	0	12.5	12.0	0.0	31	0.00
	DNH	337	0	7.5	7.0	0.5	99	0.00
	AMNSIL	837	0	19.7	19.6	0.1	42	0.00
SR	Andhra Pradesh	800	0	17.4	8.3	-0.1	256	0.00
	Telangana	9119	0	194.2	54.5	0.1	621	0.00
	Karnataka	11835	0	236.6	88.3	0.0	783	0.00
	Kerala	10675	0	198.1	32.6	-2.3	587	0.00
	Tamil Nadu	3301	0	67.1	36.7	-0.3	260	0.00
	Puducherry	15096	0	329.4	106.0	-2.5	390	0.00
	Bihar	377	0	8.5	8.8	-0.3	37	0.00
	ER	DVC	6251	0	119.5	113.2	-0.7	411
Jharkhand		3128	0	68.8	-37.1	2.5	411	0.00
Odisha		1536	0	29.3	25.2	-3.0	134	0.00
West Bengal		5359	0	110.1	34.1	-0.1	293	0.00
Sikkim		8664	0	179.9	55.1	-0.2	414	0.00
Arunachal Pradesh		77	0	1.4	1.2	0.2	28	0.00
Assam		129	0	2.3	2.6	-0.3	14	0.00
NER		Manipur	1947	0	36.0	28.6	-0.4	99
	Meghalaya	197	0	2.8	2.6	0.2	18	0.00
	Mizoram	310	0	5.9	1.0	0.0	53	0.00
	Nagaland	106	0	1.7	1.3	0.0	15	0.00
	Tripura	133	0	2.7	2.3	-0.1	22	0.00
		280	2	4.8	4.9	-0.2	28	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	46.8	-0.8	-20.1
Day Peak (MW)	2056.0	-239.9	-862.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	296.7	-179.6	-5.0	-106.2	-5.9	0.0
Actual(MU)	293.0	-163.7	-19.7	-107.3	-8.8	-6.5
O/D/U/D(MU)	-3.7	15.9	-14.7	-1.1	-2.9	-6.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4732	16908	9352	1320	659	32970	50
State Sector	6180	16205	6425	3875	11	32696	50
Total	10912	33113	15777	5195	670	65666	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	683	1220	549	512	9	2973	66
Lignite	25	8	37	0	0	70	2
Hydro	363	36	133	125	33	690	15
Nuclear	18	28	19	0	0	65	1
Gas, Naptha & Diesel	22	27	12	0	28	89	2
RES (Wind, Solar, Biomass & Others)	135	187	316	4	0	642	14
Total	1246	1506	1067	642	71	4530	100

Share of RES in total generation (%)	10.81	12.41	29.64	0.66	0.24	14.18
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	41.38	16.63	43.89	20.22	47.12	30.84

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.050
Based on State Max Demands	1.090

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: 15-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	1301	0.0	29.7	-29.7
2	HVDC	PUSAULI B/B	-	0	247	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	178	238	0.0	1.3	-1.3
4	765 kV	SASARAMI-FATEHPUR	1	0	295	0.0	3.9	-3.9
5	765 kV	GAYA-BALIA	1	0	488	0.0	8.6	-8.6
6	400 kV	PUSAULLY-VARANASI	1	0	173	0.0	3.3	-3.3
7	400 kV	PUSAULI-ALLAHABAD	1	0	141	0.0	2.7	-2.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	510	0.0	8.2	-8.2
9	400 kV	PATNA-BALIA	4	0	1028	0.0	19.4	-19.4
10	400 kV	BIHARSHARIFF-BALIA	2	0	238	0.0	3.3	-3.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	375	0.0	6.3	-6.3
12	400 kV	BIHARSHARIFF-VARANASI	2	77	114	0.0	0.3	-0.3
13	220 kV	PUSAULI-SAHUPURI	1	47	121	0.0	1.0	-1.0
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.7	0.0	0.7
16	132 kV	KARMANASA-SAHUPURI	1	4	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.7	93.8	-93.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	971	357	7.6	0.0	7.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1381	0	20.5	0.0	20.5
3	765 kV	JHARSUGUDA-DURG	2	186	44	2.1	0.0	2.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	491	0.0	6.5	-6.5
5	400 kV	RANCHI-SIPAT	2	308	30	4.4	0.0	4.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	152	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	57	28	0.5	0.0	0.5
ER-WR						35.0	9.0	26.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	518	0.0	10.4	-10.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1684	0.0	30.5	-30.5
3	765 kV	ANGUL-SIRSAKULAM	2	0	2331	0.0	34.2	-34.2
4	400 kV	TALCHER-IC	2	384	499	1.9	0.0	1.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						0.0	75.1	-75.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	63	308	0.0	2.6	-2.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	300	258	1.6	0.0	1.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	97	0.0	1.0	-1.0
ER-NER						1.6	3.6	-2.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	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	3525	0.0	42.0	-42.0
2	HVDC	VINDHYACHAL B/B	-	96	52	0.0	0.4	-0.4
3	HVDC	MUNDIRA-MOHINDERGARH	2	0	977	0.0	13.9	-13.9
4	765 kV	GWALIOR-AGRA	2	0	2075	0.0	34.6	-34.6
5	765 kV	GWALIOR-PHAGI	2	0	1588	0.0	29.0	-29.0
6	765 kV	JABALPUR-ORAI	2	1033	1186	0.0	41.8	-41.8
7	765 kV	GWALIOR-ORAI	1	679	0	12.7	0.0	12.7
8	765 kV	SATNA-ORAI	1	0	906	0.0	19.7	-19.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1064	417	4.8	0.0	4.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	3326	0.0	59.1	-59.1
11	400 kV	ZERDA-KANKROLI	1	271	21	3.2	0.0	3.2
12	400 kV	ZERDA-BHINMAL	1	464	0	7.1	0.0	7.1
13	400 kV	VINDHYACHAL-RIHAND	1	964	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUALPUR	2	0	464	0.0	5.3	-5.3
15	220 kV	BHANPURA-RANPUR	1	0	99	0.0	1.5	-1.5
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0
17	220 kV	MEHGAON-AURAIYA	1	117	0	0.5	0.0	0.5
18	220 kV	MALANPUR-AURAIYA	1	81	5	1.3	0.0	1.3
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						51.8	248.3	-196.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	706	0	16.2	0.0	16.2
2	HVDC	RAIGARH-PUGALUR	2	1923	0	21.5	0.0	21.5
3	765 kV	SOLAPUR-RAICHUR	2	1466	751	18.7	0.0	18.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2406	0.0	25.5	-25.5
5	400 kV	KOLHAPUR-KUDGI	2	1422	0	28.1	0.0	28.1
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	77	1.4	0.0	1.4
WR-SR						85.8	25.5	60.3

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)	658	0	613	14.7
	ER	400kV TALA-BINAGURI 1,2,4 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1035	1004	1017	24.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	287	0	259	6.2
	NER	132kV GELEPHU-SALAKATI	24	15	21	0.5
	NER	132kV MOTANGA-RANGIA	52	29	41	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-31	0	-11	-0.3
	ER	NEPAL IMPORT (FROM BIHAR)	-91	-1	-21	-0.5
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-118	69	-1	0.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-713	0	-710	-17.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-149	0	-128	-3.1