



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 July 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 31.07.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-जुलाई-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 31st July 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: 01-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)	54686	45897	41198	21464	2937	166182
Peak Shortage (MW)	200	0	0	0	0	200
Energy Met (MU)	1193	1054	1012	428	54	3741
Hydro Gen (MU)	362	24	165	132	27	710
Wind Gen (MU)	42	254	225	-	-	520
Solar Gen (MU)*	41.72	18.12	78.22	3.81	0.16	142
Energy Shortage (MU)	3.45	0.00	0.00	0.00	0.04	3.49
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57004	46637	48152	21520	2948	166353
Time Of Maximum Demand Met (From NLDC SCADA)	20:49	09:26	09:49	20:06	19:25	20:01

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	0.66	4.62	5.28	81.22	13.51

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	10293	0	221.3	164.9	-1.3	128	0.00
	Haryana	8199	0	163.2	139.3	2.0	367	0.00
	Rajasthan	9237	0	204.8	56.6	-4.4	687	0.00
	Delhi	4933	0	100.3	89.9	-2.8	152	0.00
	UP	19263	0	379.0	187.8	0.0	441	0.00
	Uttarakhand	2051	0	44.5	17.1	-0.3	108	0.00
	HP	1463	0	30.0	-6.9	-3.8	0	0.00
	J&K(UT) & Ladakh(UT)	2223	250	44.3	20.2	-0.1	274	3.45
	Chandigarh	289	0	5.7	6.0	-0.2	46	0.00
	Chhattisgarh	3462	0	78.3	32.4	0.1	240	0.00
WR	Gujarat	14398	0	319.8	128.0	1.6	805	0.00
	MP	8471	0	183.1	73.0	-2.7	300	0.00
	Maharashtra	19484	0	415.8	132.4	-3.9	642	0.00
	Goa	568	0	12.2	11.2	0.4	31	0.00
	DD	325	0	7.3	7.0	0.3	35	0.00
	DNH	811	0	18.9	19.0	-0.1	49	0.00
	AMNSIL	852	0	19.1	6.7	-0.1	277	0.00
SR	Andhra Pradesh	9654	0	196.6	41.2	0.1	441	0.00
	Telangana	11512	0	217.0	91.4	-0.1	627	0.00
	Karnataka	9901	0	182.2	22.0	-0.2	616	0.00
	Kerala	3216	0	67.4	26.2	-1.5	365	0.00
	Tamil Nadu	15003	0	339.4	142.4	-0.6	497	0.00
	Puducherry	435	0	9.0	9.1	-0.1	32	0.00
ER	Bihar	5187	0	84.4	83.4	-3.2	331	0.00
	DVC	2760	0	55.1	-32.1	-2.8	250	0.00
	Jharkhand	1465	0	23.9	17.5	-0.5	270	0.00
	Odisha	5318	0	106.4	42.6	-1.4	343	0.00
	West Bengal	7871	0	156.6	60.2	1.3	538	0.00
NER	Sikkim	82	0	1.3	1.4	-0.1	26	0.00
	Arunachal Pradesh	136	0	2.3	2.3	0.0	81	0.01
	Assam	1915	0	35.0	28.4	-0.4	143	0.00
	Manipur	197	0	2.6	2.5	0.1	35	0.01
	Meghalaya	306	0	5.8	1.9	-0.3	31	0.00
	Mizoram	98	0	1.6	1.5	0.0	22	0.01
	Nagaland	132	0	2.5	2.1	-0.1	10	0.01
	Tripura	255	0	4.4	4.5	-0.2	45	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	44.9	-1.2	-19.6
Day Peak (MW)	2059.0	-105.4	-837.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	296.7	-229.5	34.4	-99.4	-2.1	0.0
Actual(MU)	284.9	-221.6	42.0	-104.9	-2.9	-2.5
O/D/U/D(MU)	-11.8	8.0	7.7	-5.5	-0.8	-2.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8212	19093	10052	857	659	38872	42
State Sector	13815	23175	10918	6205	47	54159	58
Total	22027	42267	20970	7062	705	93031	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	412	913	398	415	7	2144	56
Lignite	24	10	34	0	0	68	2
Hvdro	362	24	165	132	27	710	19
Nuclear	26	33	42	0	0	101	3
Gas, Naptha & Diesel	21	34	11	0	28	94	2
RES (Wind, Solar, Biomass & Others)	106	272	332	4	0	714	19
Total	951	1285	981	551	62	3830	100
Share of RES in total generation (%)	11.10	21.17	33.84	0.69	0.26	18.63	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	51.93	25.56	54.91	24.67	43.94	39.79	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.060
Based on State Max Demands	1.093

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-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	1002	0.0	24.9	-24.9	
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.2	-6.2	
3	765 kV	GAYA-VARANASI	2	211	373	0.0	1.9	-1.9	
4	765 kV	SASARAM-FATEHPUR	1	74	237	0.0	3.0	-3.0	
5	765 kV	GAYA-BALIA	1	0	497	0.0	7.9	-7.9	
6	400 kV	PUSAULI-VARANASI	1	0	251	0.0	3.7	-3.7	
7	400 kV	PUSAULI-ALLAHABAD	1	0	153	0.0	2.3	-2.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	719	0.0	11.6	-11.6	
9	400 kV	PATNA-BALIA	4	0	898	0.0	13.1	-13.1	
10	400 kV	BIHARSHARIFF-BALIA	2	0	287	0.0	3.7	-3.7	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	433	0.0	6.8	-6.8	
12	400 kV	BIHARSHARIFF-VARANASI	2	63	187	0.0	1.3	-1.3	
13	220 kV	PUSAULI-SAHUPURI	1	0	117	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	0.2	0.0	0.2	
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	0.2	87.6	-87.4
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1163	0	15.8	0.0	15.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	980	88	16.2	0.0	16.2	
3	765 kV	JHARSUGUDA-DURG	2	163	68	2.0	0.0	2.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	122	261	0.0	1.1	-1.1	
5	400 kV	RANCHI-SIPAT	2	229	84	3.5	0.0	3.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	20	74	0.0	0.4	-0.4	
7	220 kV	BUDHIPADAR-KORBA	2	141	0	2.3	0.0	2.3	
						ER-WR	39.8	1.5	-38.3
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	455	0.0	10.1	-10.1	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1240	0.0	30.0	-30.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2423	0.0	37.5	-37.5	
4	400 kV	TALCHER-I/C	2	170	507	0.0	5.0	-5.0	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	77.6	-77.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	298	0.0	3.8	-3.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	72	330	0.0	2.7	-2.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	104	0.0	1.4	-1.4	
						ER-NER	0.0	7.9	-7.9
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	504	0.0	12.3	-12.3	
						NER-NR	0.0	12.3	-12.3
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4033	0.0	34.0	-34.0	
2	HVDC	VINDHYACHAL B/B	-	0	52	0.0	1.2	-1.2	
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	1450	0.0	17.4	-17.4	
4	765 kV	GWALIOR-AGRA	2	0	2185	0.0	35.3	-35.3	
5	765 kV	GWALIOR-PHAGI	2	0	1346	0.0	20.0	-20.0	
6	765 kV	JABALPUR-ORAI	2	0	889	0.0	26.6	-26.6	
7	765 kV	GWALIOR-ORAI	1	627	0	10.8	0.0	10.8	
8	765 kV	SATNA-ORAI	1	0	921	0.0	17.6	-17.6	
9	765 kV	BANASKANTHA-CHITORGARH	2	11	1013	0.0	13.4	-13.4	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2815	0.0	50.7	-50.7	
11	400 kV	ZERDA-KANKROLI	1	119	141	0.0	0.1	-0.1	
12	400 kV	ZERDA -BHNMAL	1	288	165	2.0	0.0	2.0	
13	400 kV	VINDHYACHAL -RIHAND	1	960	0	21.3	0.0	21.3	
14	400 kV	RAPP-SHUALPUR	2	10	535	0.0	5.5	-5.5	
15	220 kV	BHANPURA-RANPUR	1	0	154	0.0	2.6	-2.6	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.5	-2.5	
17	220 kV	MEHGAON-AURAIYA	1	103	0	0.4	0.0	0.3	
18	220 kV	MALANPUR-AURAIYA	1	76	14	0.9	0.0	0.9	
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	35.2	227.0	-191.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	297	0	7.3	0.0	7.3	
2	HVDC	RAIGARH-PUGALUR	2	966	0	13.7	0.0	13.7	
3	765 kV	SOLAPUR-RAICHUR	2	1398	1498	3.3	0.0	3.3	
4	765 kV	WARDHA-NIZAMABAD	2	0	2845	0.0	34.2	-34.2	
5	400 kV	KOLHAPUR-KUDGI	2	1146	0	17.1	0.0	17.1	
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	78	1.5	0.0	1.5	
						WR-SR	42.8	34.2	8.6

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)	684	635	650	15.6
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	969	0	888	21.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	317	0	269	6.5
	NER	132kV GELEPHU-SALAKATI	28	0	14	0.3
	NER	132kV MOTANGA-RANGIA	63	9	49	1.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-45	-1.1
	ER	NEPAL IMPORT (FROM BIHAR)	0	-1	0	-0.4
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-28	0	10	0.3
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-713	-710	-710	-17.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-124	0	-105	-2.5