



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: 28th 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 27.07.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-जुलाई-2021 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 27th 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: 28-Jul-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)	57684	45384	40396	24051	3053	170568
Peak Shortage (MW)	495	0	0	0	0	495
Energy Met (MU)	1365	1059	966	510	59	3959
Hydro Gen (MU)	356	25	132	115	32	660
Wind Gen (MU)	71	241	229	-	-	541
Solar Gen (MU)*	28.39	17.62	97.85	3.99	0.18	148
Energy Shortage (MU)	11.97	0.00	0.00	0.00	0.04	12.01
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64538	46862	44799	24362	3056	174145
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	09:26	12:14	19:51	19:55	10:44

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	0.028	0.00	0.10	4.51	4.62	83.72	11.67

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	11619	0	264.2	177.3	-2.4	138	0.00
	Haryana	9175	0	198.7	175.2	-1.0	495	0.00
	Rajasthan	10556	0	241.3	58.6	-3.9	533	0.00
	Delhi	5585	0	113.7	101.9	-1.3	144	0.00
	UP	22698	0	437.9	208.3	-3.1	612	0.18
	Uttarakhand	1551	300	30.6	21.0	2.7	412	8.34
	HP	1457	0	28.3	-6.8	-4.3	0	0.00
	J&K(UT) & Ladakh(UT)	2094	250	43.7	18.2	0.0	435	3.45
WR	Chandigarh	297	0	6.2	6.6	-0.5	12	0.00
	Chhattisgarh	3823	0	87.6	42.5	-0.5	177	0.00
	Gujarat	13938	0	308.3	106.9	0.2	597	0.00
	MP	8575	0	185.6	98.4	-3.1	444	0.00
	Maharashtra	19508	0	421.1	127.8	-3.8	713	0.00
	Goa	551	0	12.0	11.1	0.3	38	0.00
	DD	322	0	7.2	7.0	0.2	26	0.00
	DNH	839	0	19.5	19.2	0.3	67	0.00
SR	AMNSIL	835	0	18.0	7.0	-0.5	249	0.00
	Andhra Pradesh	8673	0	186.7	43.0	-0.3	600	0.00
	Telangana	11096	0	214.8	92.1	-0.8	463	0.00
	Karnataka	8243	0	161.3	1.6	0.2	843	0.00
	Kerala	3232	0	68.4	26.7	-1.3	185	0.00
	Tamil Nadu	14417	0	326.2	130.7	-2.0	451	0.00
	Puducherry	416	0	8.7	8.8	-0.1	51	0.00
	ER	Bihar	6764	0	128.8	125.3	0.4	524
DVC		3255	0	66.1	-37.6	-1.0	316	0.00
Jharkhand		1636	0	30.8	26.9	-1.6	127	0.00
Odisha		5611	0	112.8	42.0	-0.4	552	0.00
West Bengal		8483	0	170.4	55.0	0.5	425	0.00
Sikkim		90	0	1.3	0.6	0.7	82	0.00
NER	Arunachal Pradesh	130	0	2.2	2.5	-0.3	85	0.01
	Assam	2033	0	39.2	32.0	0.8	187	0.00
	Manipur	188	0	2.6	2.6	0.0	19	0.01
	Meghalaya	301	0	5.4	1.6	-0.1	96	0.00
	Mizoram	100	0	1.5	1.5	-0.2	12	0.01
	Nagaland	131	0	2.5	2.2	-0.2	11	0.01
	Tripura	282	0	5.2	5.2	-0.1	34	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	36.7	-5.4	-22.1
Day Peak (MW)	1631.0	-423.5	-946.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	357.7	-269.0	-9.3	-75.9	-3.5	0.0
Actual(MU)	355.7	-282.9	-10.2	-62.5	-4.7	-4.6
O/D/U/D(MU)	-2.0	-13.9	-0.9	13.4	-1.2	-4.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7312	17655	10192	660	259	36077	42
State Sector	10345	22527	10498	5420	47	48837	58
Total	17657	40182	20690	6080	305	84914	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	510	1008	408	480	10	2416	59
Lignite	22	10	37	0	0	70	2
Hydro	356	25	132	115	32	660	16
Nuclear	26	33	42	0	0	101	2
Gas, Naptha & Diesel	22	26	11	0	26	85	2
RES (Wind, Solar, Biomass & Others)	114	260	355	4	0	733	18
Total	1051	1361	986	599	69	4064	100

Share of RES in total generation (%)	10.85	19.07	36.02	0.67	0.26	18.03
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	47.24	23.30	53.68	19.84	46.62	36.74

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.054
Based on State Max Demands	1.082

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: 28-Jul-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	2301	0.0	32.4	-32.4	
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.2	-6.2	
3	765 kV	GAYA-VARANASI	2	0	670	0.0	8.1	-8.1	
4	765 kV	SASARAM-FATEHPUR	1	379	26	4.3	0.0	4.3	
5	765 kV	GAYA-BALIA	1	0	641	0.0	9.6	-9.6	
6	400 kV	PUSAULI-VARANASI	1	0	229	0.0	4.7	-4.7	
7	400 kV	PUSAULI-ALLAHABAD	1	0	107	0.0	1.3	-1.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	25	582	0.0	6.7	-6.7	
9	400 kV	PATNA-BALIA	4	0	750	0.0	12.5	-12.5	
10	400 kV	BIHARSHARIF-BALIA	2	50	220	0.0	1.6	-1.6	
11	400 kV	MOTIHARI-GORAKHPUR	2	32	338	0.0	4.0	-4.0	
12	400 kV	BIHARSHARIF-VARANASI	2	70	196	0.0	0.8	-0.8	
13	220 kV	PUSAULI-SAHUPURI	1	0	156	0.0	3.0	-3.0	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4	
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	4.7	90.8	-86.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	868	100	8.6	0.0	8.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2131	0	36.6	0.0	36.6	
3	765 kV	JHARSUGUDA-DURG	2	305	0	5.0	0.0	5.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	280	143	2.7	0.0	2.7	
5	400 kV	RANCHI-SIPAT	2	578	0	10.2	0.0	10.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	22	55	0.0	0.5	-0.5	
7	220 kV	BUDHIPADAR-KORBA	2	174	0	3.0	0.0	3.0	
						ER-WR	66.1	0.5	65.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	392	0.0	5.8	-5.8	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1340	0.0	24.6	-24.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2102	0.0	33.9	-33.9	
4	400 kV	TALCHER-IC	2	631	343	4.0	0.0	4.0	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	64.3	-64.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	456	0.0	5.8	-5.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	64	337	0.0	3.2	-3.2	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	120	0.0	2.0	-2.0	
						ER-NER	0.0	11.0	-11.0
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	17.0	-17.0	
						NER-NR	0.0	17.0	-17.0
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5038	0.0	76.3	-76.3	
2	HVDC	VINDHYACHAL B/B	-	244	254	1.1	2.6	-1.5	
3	HVDC	MUNDRU-MOHINDERGARH	2	0	1917	0.0	34.9	-34.9	
4	765 kV	GWALIOR-AGRA	2	0	3248	0.0	62.4	-62.4	
5	765 kV	GWALIOR-PHAGI	2	0	1393	0.0	24.7	-24.7	
6	765 kV	JABALPUR-ORAI	2	0	1083	0.0	42.4	-42.4	
7	765 kV	GWALIOR-ORAI	1	697	0	13.7	0.0	13.7	
8	765 kV	SATNA-ORAI	1	0	1311	0.0	27.6	-27.6	
9	765 kV	BANASKANTHA-CHITORGARH	2	0	1123	0.0	18.4	-18.4	
10	400 kV	ZERDA-KANKROLI	1	55	121	0.0	0.9	-0.9	
11	400 kV	ZERDA-BHINMAL	1	288	35	3.1	0.0	3.1	
12	400 kV	VINDHYACHAL -RIHAND	1	969	0	21.6	0.0	21.6	
13	400 kV	RAPP-SHUJALPUR	2	0	469	0.0	7.3	-7.3	
14	220 kV	BHANPURA-RANPUR	1	0	158	0.0	2.5	-2.5	
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.4	-2.4	
16	220 kV	MEHGAON-AURAIYA	1	69	72	0.0	0.9	-0.8	
17	220 kV	MALANPUR-AURAIYA	1	32	80	0.2	0.4	-0.2	
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	39.7	303.6	-264.0
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	598	0	14.4	0.0	14.4	
2	HVDC	RAIGARH-PUGALUR	2	1644	0	28.3	0.0	28.3	
3	765 kV	SOLAPUR-RAICHUR	2	1721	978	9.8	0.0	9.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	2404	0.0	28.8	-28.8	
5	400 kV	KOLHAPUR-KUDGI	2	1362	0	19.2	0.0	19.2	
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	75	1.5	0.0	1.5	
						WR-SR	73.1	28.8	44.3
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)	670	0	636			15.3	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE -BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	552	521	544			13.1	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	310	0	282			6.8	
	NER	132kV GELEPHU-SALAKATI	29	24	24			0.6	
	NER	132kV MOTANGA-RANGIA	70	29	41			1.0	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-63	0	-45			-1.1	
	ER	NEPAL IMPORT (FROM BIHAR)	-243	-9	-127			-3.0	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-118	0	-52			-1.3	
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-822	-802	-807			-19.4	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-124	0	-115			-2.8	