



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: 11th 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 10.07.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-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 10th July 2021, is available at the NLDC website.

धन्यवाद,

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting:

11-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)	68018	51319	37260	23374	2969	182940
Peak Shortage (MW)	412	0	0	0	9	421
Energy Met (MU)	1622	1217	879	505	56	4278
Hydro Gen (MU)	362	27	72	141	30	632
Wind Gen (MU)	9	73	171	-	-	253
Solar Gen (MU)*	52.32	32.97	74.20	4.79	0.14	164
Energy Shortage (MU)	19.16	0.00	0.00	0.00	0.08	19.24
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72396	52666	40170	23757	2998	184388
Time Of Maximum Demand Met (From NLDC SCADA)	22:39	15:00	12:26	21:38	19:06	12:30

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	0.030	0.00	0.07	5.29	5.36	79.42	15.22

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	12260	0	289.4	184.6	-0.7	95	13.40
	Haryana	11767	0	265.9	212.4	0.8	381	0.00
	Rajasthan	13852	0	296.4	102.7	2.8	666	0.00
	Delhi	6645	0	135.0	120.7	-0.5	243	0.00
	UP	24149	270	503.5	249.4	0.8	688	0.81
	Uttarakhand	2209	0	49.7	19.8	1.6	199	0.66
	HP	1401	95	29.5	-2.3	-3.6	54	0.84
	J&K(UT) & Ladakh(UT)	2325	250	45.5	19.1	0.9	246	3.45
Chandigarh	364	0	7.5	7.4	0.1	41	0.00	
WR	Chhattisgarh	4132	0	96.9	52.4	-1.4	141	0.00
	Gujarat	18237	0	392.7	163.3	1.7	537	0.00
	MP	9964	0	229.9	139.9	-1.1	440	0.00
	Maharashtra	19609	0	440.0	156.8	-3.4	604	0.00
	Goa	532	0	11.3	10.6	0.2	28	0.00
	DD	344	0	7.7	7.5	0.2	30	0.00
	DNH	837	0	19.4	19.5	-0.1	43	0.00
	AMNSIL	841	0	18.6	4.5	0.3	296	0.00
SR	Andhra Pradesh	7745	0	166.2	44.6	-0.8	546	0.00
	Telangana	8890	0	180.0	73.0	0.3	526	0.00
	Karnataka	8893	0	171.8	33.4	-1.7	452	0.00
	Kerala	2823	0	61.8	38.2	-0.6	216	0.00
	Tamil Nadu	13171	0	290.9	104.9	-4.8	563	0.00
	Puducherry	372	0	8.2	8.6	-0.5	23	0.00
ER	Bihar	6565	0	126.8	122.6	1.7	418	0.00
	DVC	3168	0	67.1	-49.7	-0.8	207	0.00
	Jharkhand	1589	0	29.8	26.2	-2.3	181	0.00
	Odisha	5175	0	102.5	28.5	-1.0	304	0.00
	West Bengal	8735	0	177.4	52.7	0.1	501	0.00
	Sikkim	91	0	1.6	1.5	0.2	33	0.00
NER	Arunachal Pradesh	138	0	2.3	2.5	-0.4	35	0.01
	Assam	1935	0	36.1	28.7	0.4	116	0.00
	Manipur	185	2	2.5	2.6	-0.1	24	0.01
	Meghalaya	300	0	5.6	1.6	-0.3	48	0.00
	Mizoram	103	1	1.6	1.6	-0.0	19	0.01
	Nagaland	134	1	2.4	2.5	-0.1	18	0.01
	Tripura	297	3	5.1	4.4	0.2	96	0.04

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	48.2	-6.9	-22.5
Day Peak (MW)	2035.0	-422.8	-971.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	436.1	-241.8	-59.9	-129.6	-4.7	0.0
Actual(MU)	451.0	-227.5	-91.2	-133.3	-4.7	-5.7
O/D/U/D(MU)	14.9	14.4	-31.3	-3.7	0.0	-5.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4572	13324	6912	210	588	25606	41
State Sector	9185	17067	6778	4155	11	37196	59
Total	13757	30391	13690	4365	600	62802	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	666	1260	544	534	10	3014	69
Lignite	28	11	39	0	0	78	2
Hydro	362	27	72	141	30	632	14
Nuclear	30	33	46	0	0	109	2
Gas, Naptha & Diesel	32	32	11	0	26	101	2
RES (Wind, Solar, Biomass & Others)	80	106	270	5	0	462	11
Total	1198	1470	982	680	66	4396	100

Share of RES in total generation (%)	6.68	7.23	27.54	0.71	0.21	10.50
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.41	11.30	39.60	21.44	45.90	27.37

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.041
Based on State Max Demands	1.083

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.

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 11-Jul-2021

SI 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	2503	0.0	37.7	-37.7	
2	HVDC	PUSAULI B/B	-	0	248	0.0	5.9	-5.9	
3	765 kV	GAYA-VARANASI	2	0	945	0.0	16.2	-16.2	
4	765 kV	SASARAM-FATEHPUR	1	88	309	0.0	3.0	-3.0	
5	765 kV	GAYA-BALIA	1	0	800	0.0	14.4	-14.4	
6	400 kV	PUSAULI-VARANASI	1	0	219	0.0	4.4	-4.4	
7	400 kV	PUSAULI -ALLAHABAD	1	0	98	0.0	1.3	-1.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	751	0.0	11.2	-11.2	
9	400 kV	PATNA-BALIA	4	0	1291	0.0	25.0	-25.0	
10	400 kV	BIHARSHARIFF-BALIA	2	0	533	0.0	8.4	-8.4	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	470	0.0	6.8	-6.8	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	350	0.0	5.4	-5.4	
13	220 kV	PUSAULI-SAHUPURI	1	0	134	0.0	2.2	-2.2	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.7	0.0	0.7	
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	0.7	141.9	-141.2
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	322	750	0.0	7.2	-7.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1876	0	26.3	0.0	26.3	
3	765 kV	JHARSUGUDA-DURG	2	249	61	1.7	0.0	1.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	94	253	0.0	2.1	-2.1	
5	400 kV	RANCHI-SIPAT	2	499	0	6.9	0.0	6.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	126	0.0	2.1	-2.1	
7	220 kV	BUDHIPADAR-KORBA	2	124	0	1.9	0.0	1.9	
						ER-WR	36.8	11.4	25.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	103	349	0.0	6.1	-6.1	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1626	0.0	28.4	-28.4	
3	765 kV	ANGUL-SRIKAKULAM	2	0	1520	0.0	20.0	-20.0	
4	400 kV	TALCHER-I/C	2	874	0	15.1	0.0	15.1	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	54.5	-54.5
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	636	0.0	6.8	-6.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	245	394	0.0	2.3	-2.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	1	145	0.0	1.8	-1.8	
						ER-NER	0.0	10.9	-10.9
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	1004	0.0	17.1	-17.1	
						NER-NR	0.0	17.1	-17.1

Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4535	0.0	94.0	-94.0
2	HVDC	VINDHYACHAL B/B	-	97	255	0.2	5.3	-5.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2365	0.0	48.6	-48.6
4	765 kV	GWALIOR-AGRA	2	0	3261	0.0	58.8	-58.8
5	765 kV	PHAGI-GWALIOR	2	0	2115	0.0	44.1	-44.1
6	765 kV	JABALPUR-ORAI	2	0	1426	0.0	52.7	-52.7
7	765 kV	GWALIOR-ORAI	1	746	0	13.9	0.0	13.9
8	765 kV	SATNA-ORAI	1	0	1665	0.0	35.0	-35.0
9	765 kV	CHITORGARH-BANASKANTHA	2	1380	262	12.3	0.0	12.3
10	400 kV	ZERDA-KANKROLI	1	300	26	3.5	0.0	3.5
11	400 kV	ZERDA -BHINMAL	1	340	128	3.8	0.0	3.8
12	400 kV	VINDHYACHAL -RIHAND	1	957	0	17.5	0.0	17.5
13	400 kV	RAPP-SHUJALPUR	2	0	692	0.0	11.4	-11.4
14	220 kV	BHANPURA-RANPUR	1	0	98	0.0	1.7	-1.7
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0
16	220 kV	MEHGAON-AURAIYA	1	110	17	0.2	0.4	-0.3
17	220 kV	MALANPUR-AURAIYA	1	70	47	0.6	0.0	0.6
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						52.0	353.1	-301.1

Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	791	0	13.4	0.0	13.4
2	HVDC	RAIGARH-PUGALUR	2	1922	0	33.4	0.0	33.4
3	765 kV	SOLAPUR-RAICHUR	2	2074	0	28.8	0.0	28.8
4	765 kV	WARDHA-NIZAMABAD	2	346	1178	1.3	7.6	-6.2
5	400 kV	KOLHAPUR-KUDGI	2	1556	0	29.3	0.0	29.3
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	73	1.4	0.0	1.4
WR-SR						107.6	7.6	100.1

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)	681	0	662	15.9		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1683	998	1004	24.1		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	316	0	279	6.7		
	NER	132kV GELEPHU-SALAKATI	52	22	33	0.8		
	NER	132kV MOTANGA-RANGIA	54	20	29	0.7		
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.4		
	ER	NEPAL IMPORT (FROM BIHAR)	-122	-1	-62	-1.5		
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-222	-70	-168	-4.0		
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-821	-750	-814	-19.5		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-150	0	-126	-3.0		