



**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: 23<sup>rd</sup> June 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 22.06.2021.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-जून-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 22<sup>nd</sup> June 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: 23-Jun-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)	60418	46442	41448	20853	2930	172091
Peak Shortage (MW)	631	0	0	0	2	633
Energy Met (MU)	1414	1111	1014	451	57	4047
Hydro Gen (MU)	334	66	110	134	25	669
Wind Gen (MU)	24	134	126	-	-	284
Solar Gen (MU)*	52.17	30.98	97.96	4.07	0.25	185
Energy Shortage (MU)	7.70	0.00	0.00	0.00	0.04	7.74
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63943	47055	46626	21278	3155	177021
Time Of Maximum Demand Met (From NLDC SCADA)	23:38	11:48	11:51	20:43	19:23	11:43

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	0.079	0.21	5.68	11.45	17.34	71.00	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	12821	0	289.5	162.8	-1.4	169	0.00
	Haryana	9992	465	221.1	154.0	0.1	147	1.11
	Rajasthan	11056	149	238.1	80.5	2.2	694	2.50
	Delhi	5947	0	117.3	104.7	-1.6	238	0.00
	UP	21153	520	419.8	180.4	-1.6	284	0.26
	Uttarakhand	1954	0	42.3	17.0	0.8	147	0.38
	HP	1456	8	32.0	0.1	0.8	230	0.00
	J&K(UT) & Ladakh(UT)	2376	250	48.3	22.2	1.4	414	3.45
WR	Chandigarh	317	0	6.2	6.0	0.2	50	0.00
	Chhattisgarh	3743	0	87.4	39.1	-0.7	192	0.00
	Gujarat	13975	0	307.3	129.9	2.2	588	0.00
	MP	8677	0	195.8	97.4	-0.7	603	0.00
	Maharashtra	20895	0	464.0	136.5	-3.5	649	0.00
	Goa	576	0	12.0	11.0	0.4	70	0.00
	DD	320	0	7.3	6.9	0.4	58	0.00
	DNH	803	0	18.7	18.6	0.1	38	0.00
SR	AMNSIL	850	0	18.6	2.2	-0.2	338	0.00
	Andhra Pradesh	10172	0	203.4	88.1	1.1	926	0.00
	Telangana	10136	0	213.1	87.3	1.4	549	0.00
	Karnataka	10097	0	187.0	54.6	4.6	1210	0.00
	Kerala	3298	0	69.7	38.4	-0.5	239	0.00
	Tamil Nadu	14594	0	332.6	165.2	2.4	963	0.00
	Puducherry	387	0	8.3	8.5	-0.2	50	0.00
	Bihar	5817	0	109.7	101.0	2.0	723	0.00
ER	DVC	3082	0	65.8	-45.0	2.1	380	0.00
	Jharkhand	1419	0	26.4	21.3	-2.4	152	0.00
	Odisha	4523	0	94.0	25.5	0.0	399	0.00
	West Bengal	7524	0	153.6	32.5	0.2	385	0.00
	Sikkim	83	0	1.3	1.5	-0.2	15	0.00
	NER	Arumachal Pradesh	133	1	2.4	2.0	0.2	27
Assam		1899	0	37.3	30.9	0.2	109	0.00
Manipur		198	2	2.6	2.5	0.0	54	0.01
Meghalaya		310	0	5.7	2.0	-0.2	94	0.00
Mizoram		101	0	1.8	1.6	0.1	14	0.01
Nagaland		129	1	2.5	2.7	-0.2	14	0.01
Tripura		288	0	5.0	3.9	0.0	53	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	44.7	-8.6	-22.4
Dav Peak (MW)	2103.0	-531.9	-1041.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	340.2	-287.4	120.0	-172.8	-0.1	0.0
Actual(MU)	323.1	-286.2	128.2	-169.2	-1.8	-5.9
OD/UD(MU)	-17.1	1.3	8.1	3.6	-1.7	-5.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7073	18907	10302	1005	738	38026	46
State Sector	10748	19723	10095	4747	11	45324	54
Total	17821	38630	20397	5752	750	83349	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	598	1108	438	515	14	2672	65
Lignite	28	10	45	0	0	83	2
Hydro	334	66	110	134	25	669	16
Nuclear	31	28	39	0	0	97	2
Gas, Naptha & Diesel	23	38	13	0	25	98	2
RES (Wind, Solar, Biomass & Others)	93	165	250	4	0	513	12
Total	1107	1414	895	654	64	4133	100
Share of RES in total generation (%)	8.44	11.67	27.92	0.63	0.39	12.40	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.38	18.28	44.60	21.18	39.36	30.95	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.080

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: 23-Jun-2021

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
<b>Import/Export of ER (With NR)</b>									
1	HVDC	ALIPURDUAR-AGRA	2	0	851	0.0	21.4	-21.4	
2	HVDC	PUSAULI B/B	-	0	249	0.0	5.9	-5.9	
3	765 kV	GAYA-VARANASI	2	0	810	0.0	14.4	-14.4	
4	765 kV	SASARAM-FATEHPUR	1	0	382	0.0	5.3	-5.3	
5	765 kV	GAYA-BALIA	1	0	512	0.0	8.6	-8.6	
6	400 kV	PUSAULI-VARANASI	1	0	185	0.0	3.8	-3.8	
7	400 kV	PUSAULI -ALLAHABAD	1	0	111	0.0	1.9	-1.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	828	0.0	15.7	-15.7	
9	400 kV	PATNA-BALIA	4	0	964	0.0	19.1	-19.1	
10	400 kV	BIHARSHARIFF-BALIA	2	0	389	0.0	7.3	-7.3	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	466	0.0	8.5	-8.5	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	329	0.0	5.4	-5.4	
13	220 kV	PUSAULI-SAHUPURI	1	0	111	0.0	1.8	-1.8	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.5	0.0	0.5	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.5	119.0	-118.5
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	477	358	1.4	0.0	1.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1074	512	13.6	0.0	13.6	
3	765 kV	JHARSUGUDA-DURG	2	0	284	0.0	2.9	-2.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	230	117	2.1	0.0	2.1	
5	400 kV	RANCHI-SIPAT	2	314	126	4.6	0.0	4.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	14	98	0.0	0.9	-0.9	
7	220 kV	BUDHIPADAR-KORBA	2	125	0	2.1	0.0	2.1	
						ER-WR	23.8	3.8	20.0
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	443	0.0	9.9	-9.9	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	45.8	-45.8	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3024	0.0	51.8	-51.8	
4	400 kV	TALCHER-I/C	2	111	345	0.0	3.9	-3.9	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	107.5	-107.5
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	0	302	0.0	3.6	-3.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	74	351	0.0	3.7	-3.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	119	0.0	1.8	-1.8	
						ER-NER	0.0	9.1	-9.1
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALL-AGRA	2	0	502	0.0	12.0	-12.0	
						NER-NR	0.0	12.0	-12.0
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3017	0.0	52.5	-52.5	
2	HVDC	VINDHYACHAL B/B	-	0	0	0.0	0.0	0.0	
3	HVDC	MUNDA-MOHENDERGARH	2	0	979	0.0	24.3	-24.3	
4	765 kV	GWALIOR-AGRA	2	0	2747	0.0	48.5	-48.5	
5	765 kV	PHAGI-GWALIOR	2	0	1892	0.0	38.1	-38.1	
6	765 kV	JABALPUR-ORAI	2	1097	1084	0.0	39.2	-39.2	
7	765 kV	GWALIOR-ORAI	1	651	0	12.4	0.0	12.4	
8	765 kV	SATNA-ORAI	1	0	1546	0.0	32.3	-32.3	
9	765 kV	CHITORGARH-BANASKANTHA	2	1043	357	1.9	0.0	1.9	
10	400 kV	ZERDA-KANKROLI	1	254	35	2.1	0.0	2.1	
11	400 kV	ZERDA -BHINMAL	1	428	0	5.2	0.0	5.2	
12	400 kV	VINDHYACHAL -RIHAND	1	931	0	22.0	0.0	22.0	
13	400 kV	RAPT-SHILAI PUR	1	2	0	0.0	8.5	-8.5	
14	220 kV	BHANPURA-RANPUR	1	0	93	0.0	1.5	-1.5	
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0	
16	220 kV	MEHGAON-AURAIYA	1	108	6	0.2	0.3	-0.1	
17	220 kV	MALANPUR-AURAIYA	1	72	33	0.7	0.0	0.7	
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	44.3	246.0	-201.7
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	300	312	0.0	3.3	-3.3	
2	HVDC	RAIGARH-PUGAUR	2	0	1805	0.0	26.2	-26.2	
3	765 kV	SOLAPUR-RAICHUR	2	564	2020	0.0	13.0	-13.0	
4	765 kV	WARDHA-NIZAMABAD	2	0	2670	0.0	33.5	-33.5	
5	400 kV	KOLHAPUR-KUDGI	2	827	133	10.5	0.1	10.4	
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	1	98	1.5	0.0	1.5	
						WR-SR	12.0	76.1	-64.0
<b>INTERNATIONAL EXCHANGES</b>									
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)			
BHUTAN	ER	400KV MANGDECHHU-ALIPURDUAR 1&2 I.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	623	589	589	14.1			
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1084	0	983	23.6			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	302	0	214	5.1			
	NER	132KV-GEYLEGPHU - SALAKATI	34	17	-25	-0.6			
	NER	132KV Motanga-Rangia	59	41	-51	-1.2			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-69	0	-47	-1.1			
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-257	-54	-190	-4.6			
	ER	132KV-BIHAR - NEPAL	-206	-1	-122	-2.9			
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-909	-767	-825	-19.8			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	-66	0	-54	-1.3			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	-66	0	-54	-1.3			