



**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: 07<sup>th</sup> 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 06.07.2021.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 06-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 06<sup>th</sup> 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:

07-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)	66813	53072	41542	22119	2905	186451
Peak Shortage (MW)	1553	0	0	190	2	1745
Energy Met (MU)	1612	1298	999	504	56	4470
Hydro Gen (MU)	361	54	111	140	26	692
Wind Gen (MU)	23	73	45	-	-	142
Solar Gen (MU)*	53.58	37.32	98.72	5.27	0.19	195
Energy Shortage (MU)	23.92	0.00	0.00	0.57	0.04	24.53
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72022	57534	46522	23226	3068	197078
Time Of Maximum Demand Met (From NLDC SCADA)	12:42	14:49	11:59	22:52	19:01	14:49

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	0.099	1.05	5.66	15.25	21.97	69.93	8.10

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	12969	0	300.7	178.3	0.0	424	13.95
	Haryana	11505	0	255.4	199.1	-0.8	119	0.97
	Rajasthan	13063	0	283.4	84.1	1.5	345	2.10
	Delhi	6743	0	134.7	121.3	-1.0	219	0.05
	UP	23446	270	505.3	242.6	-1.5	244	2.15
	Uttarakhand	2240	0	48.4	20.2	0.5	108	0.42
	HP	1503	0	29.5	-0.9	-4.5	0	0.83
	J&K(UT) & Ladakh(UT)	2317	250	46.9	22.5	-0.3	235	3.45
WR	Chandigarh	405	0	7.7	7.7	0.0	38	0.00
	Chhattisgarh	4167	0	93.8	52.1	0.9	264	0.00
	Gujarat	17956	0	392.9	133.2	4.8	834	0.00
	MP	10161	0	233.1	133.8	1.5	949	0.00
	Maharashtra	23759	0	521.5	178.6	-3.8	540	0.00
	Goa	562	0	12.5	11.1	0.7	44	0.00
	DD	340	0	7.6	7.3	0.3	33	0.00
	DNH	820	0	18.9	18.8	0.1	80	0.00
SR	AMNSIL	816	0	17.9	4.8	-0.1	206	0.00
	Andhra Pradesh	8522	0	179.8	67.6	3.5	1448	0.00
	Telangana	10273	0	216.0	85.4	0.2	504	0.00
	Karnataka	10388	0	200.2	53.7	-0.4	499	0.00
	Kerala	3493	0	73.1	45.0	-0.3	218	0.00
	Tamil Nadu	14584	0	322.1	169.0	-0.8	904	0.00
ER	Puducherry	393	0	8.3	8.5	-0.2	27	0.00
	Bihar	6342	0	126.3	115.3	0.7	432	0.00
	DVC	2962	0	63.1	-54.9	-1.6	306	0.00
	Jharkhand	1489	0	28.8	24.5	-1.5	224	0.57
	Odisha	5312	0	107.4	30.2	0.9	262	0.00
	West Bengal	8773	0	176.9	39.8	1.8	450	0.00
NER	Sikkim	119	0	2.0	1.5	0.5	44	0.00
	Arunachal Pradesh	134	1	2.3	2.3	-0.2	37	0.01
	Assam	1851	0	36.5	30.5	1.0	121	0.00
	Manipur	208	1	2.6	2.5	0.1	42	0.01
	Meghalaya	325	0	5.8	2.0	-0.1	11	0.00
	Mizoram	105	1	1.6	1.6	-0.1	18	0.01
	Nagaland	123	0	2.4	2.4	0.0	28	0.01
	Tripura	289	0	5.0	4.4	0.0	40	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	45.6	-6.5	-22.7
Day Peak (MW)	1848.0	-510.0	-967.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	399.0	-253.0	28.4	-171.3	-3.1	0.0
Actual(MU)	388.7	-245.1	16.7	-164.3	-5.4	-9.4
O/D/U/D(MU)	-10.3	7.9	-11.8	7.0	-2.3	-9.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4560	15086	7072	1060	588	28366	45
State Sector	7526	15981	7155	3535	11	34208	55
Total	12086	31067	14227	4595	600	62575	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	701	1292	616	549	17	3175	70
Lignite	28	11	39	0	0	79	2
Hydro	361	54	111	140	26	692	15
Nuclear	26	32	46	0	0	105	2
Gas, Naptha & Diesel	38	51	9	0	24	121	3
RES (Wind, Solar, Biomass & Others)	96	110	170	5	0	381	8
Total	1250	1551	991	694	67	4553	100

Share of RES in total generation (%)	7.65	7.09	17.14	0.75	0.28	8.36
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.60	12.68	33.01	20.90	39.58	25.87

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.058

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: 07-Jul-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	1502	0.0	28.8	-28.8	
2	HVDC	PUSAULI B/B	-	2	249	0.0	5.7	-5.7	
3	765 kV	GAYA-VARANASI	2	0	766	0.0	15.3	-15.3	
4	765 kV	SASARAM-FATEHPUR	1	133	193	0.0	1.9	-1.9	
5	765 kV	GAYA-BALIA	1	0	683	0.0	13.1	-13.1	
6	400 kV	PUSAULI-VARANASI	1	0	233	0.0	4.7	-4.7	
7	400 kV	PUSAULI-ALLAHABAD	1	65	82	0.0	1.1	-1.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	758	0.0	14.4	-14.4	
9	400 kV	PATNA-BALIA	4	0	1139	0.0	23.9	-23.9	
10	400 kV	BIHARSHARIF-BALIA	2	0	515	0.0	9.7	-9.7	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	460	0.0	8.2	-8.2	
12	400 kV	BIHARSHARIF-VARANASI	2	0	321	0.0	6.2	-6.2	
13	220 kV	PUSAULI-SAHUPURI	1	0	141	0.0	2.0	-2.0	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.5	0.0	0.5	
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	0.5	134.9	-134.4
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	713	873	0.0	5.1	-5.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1373	8	18.1	0.0	18.1	
3	765 kV	JHARSUGUDA-DURG	2	117	219	0.0	0.6	-0.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	136	389	0.0	3.1	-3.1	
5	400 kV	RANCHI-SIPAT	2	382	25	5.1	0.0	5.1	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	131	0.0	1.8	-1.8	
7	220 kV	BUDHIPADAR-KORBA	2	148	0	2.1	0.0	2.1	
						ER-WR	25.2	10.6	14.6
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	347	0.0	7.6	-7.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1484	0.0	36.0	-36.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2124	0.0	30.6	-30.6	
4	400 kV	TALCHER-I/C	2	349	271	3.8	0.0	3.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	74.2	-74.2
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	0	383	0.0	6.5	-6.5	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	373	0.0	5.5	-5.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	115	0.0	2.1	-2.1	
						ER-NER	0.0	14.1	-14.1
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	854	0.0	20.6	-20.6	
						NER-NR	0.0	20.6	-20.6
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3533	0.0	75.0	-75.0	
2	HVDC	VINDHYACHAL B/B	-	0	210	0.0	4.8	-4.8	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1916	0.0	45.2	-45.2	
4	765 kV	GWALIOR-AGRA	2	0	3097	0.0	53.6	-53.6	
5	765 kV	PHAGI-GWALIOR	2	0	1947	0.0	36.5	-36.5	
6	765 kV	JABALPUR-ORAI	2	0	1214	0.0	42.1	-42.1	
7	765 kV	GWALIOR-ORAI	1	849	0	15.7	0.0	15.7	
8	765 kV	SATNA-ORAI	1	0	1510	0.0	29.7	-29.7	
9	765 kV	CHITORGARH-BANASKANTHA	2	906	291	5.3	0.0	5.3	
10	400 kV	ZERDA-KANKROLI	1	204	20	2.6	0.0	2.6	
11	400 kV	ZERDA -BHINMAL	1	328	45	4.2	0.0	4.2	
12	400 kV	VINDHYACHAL -RIHAND	1	962	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHUJALPUR	2	0	608	0.0	8.1	-8.1	
14	220 kV	BHANPURA-RANPUR	1	0	97	0.0	1.4	-1.4	
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8	
16	220 kV	MEHGAON-AURAIYA	1	127	0	0.5	0.0	0.5	
17	220 kV	MALANPUR-AURAIYA	1	88	21	1.2	0.0	1.2	
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	52.2	297.2	-245.1
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	297	0	7.3	0.0	7.3	
2	HVDC	RAIGARH-PUGALUR	2	966	605	6.1	0.0	6.1	
3	765 kV	SOLAPUR-RAICHUR	2	1588	1634	8.7	0.0	8.7	
4	765 kV	WARDHA-NIZAMABAD	2	0	2414	0.0	29.2	-29.2	
5	400 kV	KOLHAPUR-KUDGI	2	1223	0	20.4	0.0	20.4	
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	73	1.3	0.0	1.3	
						WR-SR	43.8	29.2	14.6
<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&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	639	0	633	15.2			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1018	0	940	22.6			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	286	0	256	6.2			
	NER	132kV GELEPHU-SALAKATI	34	19	26	0.6			
	NER	132kV MOTANGA-RANGIA	62	46	47	1.1			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-57	-1.4			
	ER	NEPAL IMPORT (FROM BIHAR)	-215	-48	-75	-1.8			
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-220	-44	-140	-3.3			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-825	-811	-818	-19.6			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-142	0	-127	-3.0			