



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: 20th 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 19.06.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-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 19th 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: 20-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)	53543	43831	38648	19496	2735	158253
Peak Shortage (MW)	201	0	0	0	2	203
Energy Met (MU)	1253	1033	930	412	54	3682
Hydro Gen (MU)	301	54	99	113	22	589
Wind Gen (MU)	18	123	198	-	-	339
Solar Gen (MU)*	48.52	22.73	89.17	4.70	0.19	165
Energy Shortage (MU)	3.54	0.00	0.00	0.00	0.04	3.58
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57369	43862	42443	19875	2888	159668
Time Of Maximum Demand Met (From NLDC SCADA)	00:14	10:24	08:53	21:11	19:24	22:43

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	0.026	0.00	0.02	3.21	3.23	76.06	20.72

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	11688	0	268.6	169.3	-1.1	68	0.00
	Haryana	8946	0	196.0	149.1	0.2	170	0.00
	Rajasthan	10837	0	237.2	97.4	0.5	551	0.00
	Delhi	5066	0	102.8	90.5	-1.5	121	0.00
	UP	17536	0	328.5	154.4	0.0	468	0.09
	Uttarakhand	1668	0	36.1	13.2	0.4	120	0.00
	HP	1500	3	30.5	-2.0	1.4	201	0.00
	J&K(UT) & Ladakh(UT)	2270	250	48.1	23.2	0.6	286	3.45
	Chandigarh	266	0	5.3	5.6	-0.2	2	0.00
WR	Chhattisgarh	3238	0	77.1	29.1	-0.5	214	0.00
	Gujarat	13538	0	299.1	137.3	-0.2	619	0.00
	MP	8408	0	186.4	96.8	-0.7	468	0.00
	Maharashtra	18821	0	415.7	127.4	-0.2	780	0.00
	Goa	531	0	10.9	8.7	1.7	55	0.00
	DD	305	0	6.6	6.1	0.5	77	0.00
	DNH	787	0	18.3	18.0	0.3	46	0.00
	AMNSIL	860	0	18.8	1.8	0.2	256	0.00
	Andhra Pradesh	8747	0	186.7	60.6	0.8	1211	0.00
SR	Telangana	8615	0	182.0	78.5	0.4	472	0.00
	Karnataka	8637	0	161.7	43.0	2.9	898	0.00
	Kerala	3090	0	64.2	33.3	0.5	228	0.00
	Tamil Nadu	14481	0	327.4	137.4	-0.5	610	0.00
	Puducherry	389	0	8.5	8.7	-0.2	52	0.00
ER	Bihar	4911	0	88.4	87.0	-1.5	349	0.00
	DVC	2973	0	63.9	-40.9	0.4	504	0.00
	Jharkhand	1419	0	23.0	21.4	-2.5	260	0.00
	Odisha	4922	0	100.4	30.9	0.8	262	0.00
	West Bengal	6418	0	135.5	28.7	0.3	530	0.00
	Sikkim	87	0	1.4	0.5	0.9	73	0.00
	Assam	1785	0	34.8	28.6	0.2	98	0.00
NER	Manipur	177	1	2.6	2.5	0.1	40	0.01
	Meghalaya	307	0	6.0	2.5	0.1	30	0.00
	Mizoram	104	1	1.7	1.6	0.0	26	0.01
	Nagaland	134	1	2.5	2.6	-0.1	8	0.01
	Tripura	228	0	4.1	2.9	-0.2	22	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	46.9	-4.7	-24.1
Day Peak (MW)	1987.0	-388.3	-1028.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	340.6	-224.3	33.3	-152.2	2.6	0.0
Actual(MU)	327.9	-222.0	47.5	-159.0	1.5	-4.1
OD/UD(MU)	-12.7	2.2	14.2	-6.8	-1.1	-4.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7517	20098	10282	480	988	39365	42
State Sector	13505	22316	11978	6117	11	53927	58
Total	21022	42413	22260	6597	1000	93292	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	477	999	383	488	10	2357	62
Lignite	24	10	44	0	0	78	2
Hydro	301	54	99	113	22	589	16
Nuclear	31	32	48	0	0	110	3
Gas, Naptha & Diesel	23	29	13	0	26	91	2
RES (Wind, Solar, Biomass & Others)	85	146	311	5	0	547	14
Total	941	1271	898	605	58	3772	100

Share of RES in total generation (%)	9.02	11.49	34.64	0.78	0.33	14.50
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.30	18.30	50.97	19.43	37.87	33.04

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.089

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: 20-Jun-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	851	0.0	20.5	-20.5	
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	2	0	844	0.0	15.6	-15.6	
4	765 kV	SASARAM-FATEHPUR	1	0	319	0.0	5.5	-5.5	
5	765 kV	GAYA-BALIA	1	0	591	0.0	9.9	-9.9	
6	400 kV	PUSAULI-VARANASI	1	0	181	0.0	3.8	-3.8	
7	400 kV	PUSAULI -ALLAHABAD	1	0	116	0.0	2.2	-2.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	882	0.0	13.7	-13.7	
9	400 kV	PATNA-BALIA	4	0	1206	0.0	19.0	-19.0	
10	400 kV	BIHARSHARIEF-BALIA	2	0	571	0.0	8.4	-8.4	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	493	0.0	7.8	-7.8	
12	400 kV	BIHARSHARIEF-VARANASI	2	0	387	0.0	6.5	-6.5	
13	220 kV	PUSAULI-SAHUPURI	1	30	95	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	0.3	0.0	0.3	
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	0.3	119.9	-119.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	382	211	1.2	0.0	1.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1289	0	17.1	0.0	17.1	
3	765 kV	JHARSUGUDA-DURG	2	140	208	0.0	1.4	-1.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	356	0	4.7	0.0	4.7	
5	400 kV	RANCHI-SIPAT	2	365	0	4.9	0.0	4.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	81	0.0	1.0	-1.0	
7	220 kV	BUDHIPADAR-KORBA	2	140	0	2.2	0.0	2.2	
						ER-WR	30.1	2.4	27.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	443	0.0	7.8	-7.8	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1980	0.0	41.5	-41.5	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2642	0.0	48.4	-48.4	
4	400 kV	TALCHER-I/C	2	130	639	0.0	3.6	-3.6	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	97.7	-97.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	275	0.0	4.5	-4.5	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	306	0.0	4.8	-4.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	121	0.0	2.0	-2.0	
						ER-NER	0.0	11.3	-11.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALL-AGRA	2	0	502	0.0	11.9	-11.9	
						NER-NR	0.0	11.9	-11.9
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3026	0.0	49.2	-49.2	
2	HVDC	VINDHYACHAL B/B	-	0	0	0.0	0.0	0.0	
3	HVDC	MUNDA-MOHENDERGARH	2	0	980	0.0	24.2	-24.2	
4	765 kV	GWALIOR-AGRA	2	0	2565	0.0	48.8	-48.8	
5	765 kV	PHAGI-GWALIOR	2	0	2015	0.0	40.8	-40.8	
6	765 kV	JABALPUR-ORAI	2	960	1067	0.0	40.7	-40.7	
7	765 kV	GWALIOR-ORAI	1	659	0	12.3	0.0	12.3	
8	765 kV	SATNA-ORAI	1	0	1525	0.0	31.7	-31.7	
9	765 kV	CHITORGARH-BANASKANTHA	2	743	223	4.2	0.0	4.2	
10	400 kV	ZERDA-KANKROLI	1	167	0	1.8	0.0	1.8	
11	400 kV	ZERDA -BHINMAL	1	304	0	4.3	0.0	4.3	
12	400 kV	VINDHYACHAL -RIHAND	1	963	0	21.5	0.0	21.5	
13	400 kV	RAMP-SHILAPUR	1	2	0	0.0	9.9	-9.9	
14	220 kV	BHANPURA-RANPUR	1	0	97	0.0	1.8	-1.8	
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.2	-1.2	
16	220 kV	MEHGAON-AURAIYA	1	85	15	0.2	0.2	-0.1	
17	220 kV	MALANPUR-AURAIYA	1	50	36	0.6	0.0	0.5	
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	44.9	248.5	-203.5
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	693	312	8.5	1.0	7.5	
2	HVDC	RAIGARH-PUGAUR	2	777	0	14.2	0.0	14.2	
3	765 kV	SOLAPUR-RAICHUR	2	1767	1109	0.1	0.0	0.1	
4	765 kV	WARDHA-NIZAMABAD	2	0	2142	0.0	28.8	-28.8	
5	400 kV	KOLHAPUR-KUDGI	2	1190	0	16.2	0.0	16.2	
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	77	1.5	0.0	1.5	
						WR-SR	40.5	29.8	10.7
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 I.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	670	0	595	14.3			
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1075	1011	1023	24.6			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	338	0	253	6.1			
	NER	132KV-GEYLEGPHU - SALAKATI	-37	-15	-33	-0.8			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-69	0	-44	-1.1			
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-235	-29	-116	-2.8			
	ER	132KV-BIHAR - NEPAL	-84	-1	-37	-0.9			
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-917	0	-907	-21.8			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	-56	0	-49	-1.2			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	-55	0	-49	-1.2			