



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रीड कंट्रोलर ऑफ इंडिया 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: 19th June 2023

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह, लापालंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 18.06.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-जून-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 18th June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 19-Jun-2023

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)	64715	56512	44002	25016	2328	192573
Peak Shortage (MW)	0	0	0	0	12	12
Energy Met (MU)	1466	1349	1150	600	42	4607
Hydro Gen (MU)	354	23	46	101	29	553
Wind Gen (MU)	25	160	198	-	-	383
Solar Gen (MU)*	106.38	47.81	99.40	5.67	0.44	260
Energy Shortage (MU)	0.94	0.30	0.00	1.56	0.98	3.78
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	67953	60095	52585	28317	2368	204565
Time Of Maximum Demand Met	00:01	23:19	11:51	00:02	19:02	00:00

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	0.046	0.00	0.00	2.35	2.35	69.71	27.94

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	11997	0	244.7	126.1	-2.1	161	0.00
	Haryana	10119	0	208.5	145.8	-1.0	213	0.66
	Rajasthan	9311	0	203.6	40.4	-5.6	462	0.00
	Delhi	6308	0	126.7	112.7	-1.8	111	0.00
	UP	26383	0	543.4	265.6	-2.8	355	0.00
	Uttarakhand	2367	0	48.6	20.2	-1.7	42	0.01
	HP	1463	0	30.2	-3.7	-0.3	74	0.04
	J&K(UT) & Ladakh(UT)	2450	0	50.5	25.0	-0.4	197	0.23
	Chandigarh	307	0	6.2	6.4	-0.2	10	0.00
Railways_NR ISTS	184	0	3.8	3.3	0.5	52	0.00	
WR	Chhattisgarh	5137	0	118.0	62.0	-1.1	339	0.00
	Gujarat	14996	0	312.3	141.5	-1.8	528	0.00
	MP	11227	0	247.0	116.2	-4.5	302	0.00
	Maharashtra	26212	0	599.3	191.9	1.6	1740	0.30
	Goa	658	0	13.1	12.2	0.4	74	0.00
	DNHDDPDCL	1274	0	28.7	29.0	-0.3	109	0.00
	AMNSIL	824	0	17.8	8.7	0.2	277	0.00
	BALCO	522	0	12.5	12.3	0.2	118	0.00
	SR	Andhra Pradesh	12325	0	251.5	80.5	-0.9	652
Telangana		10587	0	210.7	94.4	0.8	535	0.00
Karnataka		13506	0	259.4	74.8	1.4	658	0.00
Kerala		3648	0	73.0	58.4	1.3	399	0.00
Tamil Nadu		15729	0	345.6	158.0	-5.9	383	0.00
Puducherry		453	0	9.6	9.7	-0.8	33	0.00
ER	Bihar	6773	0	146.6	138.5	-1.7	213	1.36
	DVC	3591	0	78.2	-47.3	-0.4	338	0.00
	Jharkhand	1873	0	40.4	33.5	-1.9	161	0.00
	Odisha	6712	0	127.5	56.0	-1.9	484	0.20
	West Bengal	10634	0	206.7	79.1	-3.4	427	0.00
	Sikkim	66	0	0.9	0.5	0.4	66	0.00
	Railways_ER ISTS	12	0	0.1	0.2	-0.1	0	0.00
NER	Arunachal Pradesh	141	0	2.5	2.4	-0.2	50	0.00
	Assam	1431	0	25.4	18.6	0.3	116	0.00
	Manipur	152	0	2.1	2.2	-0.1	22	0.00
	Meghalaya	292	12	4.4	1.0	-0.2	57	0.98
	Mizoram	90	0	1.6	1.6	-0.3	8	0.00
	Nagaland	121	0	2.3	2.1	-0.1	6	0.00
	Tripura	274	0	3.7	4.2	-0.1	96	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	43.9	2.2	-24.7	-21.2
Day Peak (MW)	2020.0	97.6	-1090.0	-1313.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	231.6	-216.5	85.2	-77.6	-22.6	0.0
Actual(MU)	202.7	-253.3	139.2	-69.9	-21.2	-2.5
O/D/U/D(MU)	-28.9	-36.8	54.0	7.7	1.4	-2.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2038	9683	5638	2310	455	20124	48
State Sector	4770	12096	4033	940	220	22058	52
Total	6808	21779	9671	3250	675	42182	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	765	1360	640	640	13	3418	69
Lignite	24	17	58	0	0	99	2
Hydro	354	23	46	101	29	553	11
Nuclear	29	31	51	0	0	111	2
Gas, Naptha & Diesel	41	50	5	0	28	123	2
RES (Wind, Solar, Biomass & Others)	140	209	307	7	0	663	13
Total	1352	1690	1107	748	71	4967	100

Share of RES in total generation (%)	10.32	12.37	27.73	0.89	0.62	13.37
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.62	15.57	36.44	14.67	41.97	26.77

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.076

I. All India Peak Demand and shortage at Solar and Non-Solar Hour

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	200995	14:56	43
Non-Solar hr	204565	0:00	1863

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

**Note: All generation MU figures are gross

***Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

Solar Hours -> 06:00 to 18:00hrs and rest are Non-Solar Hours

*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: 19-Jun-2023

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	1001	0.0	23.7	-23.7
2	HVDC	PUSAULI B/B	-	0	95	0.0	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	882	49	7.9	0.0	7.9
4	765 kV	SASARAM-FATEHPUR	1	221	141	0.7	0.0	0.7
5	765 kV	GAYA-BALIA	1	0	589	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	0	133	0.0	2.0	-2.0
7	400 kV	PUSAULI -ALLAHABAD	1	25	63	0.0	0.2	-0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	775	0.0	10.0	-10.0
9	400 kV	PATNA-BALIA	2	0	507	0.0	7.4	-7.4
10	400 kV	NAUBATPUR-BALIA	2	0	524	0.0	7.3	-7.3
11	400 kV	BIHARSHARIFF-BALIA	2	74	309	0.0	3.3	-3.3
12	400 kV	MOTTHARI-GORAKHPUR	2	0	429	0.0	5.7	-5.7
13	400 kV	BIHARSHARIFF-VARANASI	2	288	151	1.1	0.0	1.1
14	220 kV	SAHUPURI-KARAMNANA	1	0	192	0.0	3.2	-3.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.8	0.0	0.8
17	132 kV	KARMANASA-SAHUPURI	1	0	65	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						10.6	73.1	-62.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1736	0	17.6	0.0	17.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1604	249	19.1	0.0	19.1
3	765 kV	JHARSUGUDA-DURG	2	121	315	0.0	2.1	-2.1
4	400 kV	JHARSUGUDA-RAIGARH	4	163	393	0.0	3.7	-3.7
5	400 kV	RANCHI-SIPAT	2	338	132	3.9	0.0	3.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	144	0	2.1	0.0	2.1
ER-WR						42.8	7.5	35.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	243	0	6.1	0.0	6.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	48.0	-48.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2942	0.0	46.9	-46.9
4	400 kV	TALCHER-I/C	2	0	1241	0.0	18.5	-18.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						6.1	94.8	-88.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	365	33	4.1	0.0	4.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	729	0	9.9	0.0	9.9
3	220 kV	ALIPURDUAR-SALAKATI	2	100	0	1.2	0.0	1.2
ER-NER						15.3	0.0	15.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	251	0.0	6.0	-6.0
NER-NR						0.0	6.0	-6.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5056	0.0	83.1	-83.1
2	HVDC	VINDHYACHAL B/B	-	449	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	533	0.0	13.3	-13.3
4	765 kV	GWALIOR-AGRA	2	330	1738	0.3	18.7	-18.4
5	765 kV	GWALIOR-PHAGI	2	646	955	4.1	7.5	-3.5
6	765 kV	JABALPUR-ORAI	2	88	860	0.0	17.2	-17.2
7	765 kV	GWALIOR-ORAI	1	539	0	7.3	0.0	7.3
8	765 kV	SATNA-ORAI	1	0	977	0.0	18.3	-18.3
9	765 kV	BANASKANTHA-CHITORGARH	2	1400	0	20.6	0.0	20.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	3500	0.0	64.6	-64.6
11	400 kV	ZERDA-KANKROLI	1	310	0	5.0	0.0	5.0
12	400 kV	ZERDA -BHINMAL	1	660	0	10.3	0.0	10.3
13	400 kV	VINDHYACHAL -RIHAND	1	960	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	513	272	5.0	1.2	3.9
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
17	220 kV	MEHGAON-AURAIYA	1	125	0	1.7	0.0	1.7
18	220 kV	MALANPUR-AURAIYA	1	94	0	1.1	0.0	1.1
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						89.3	225.7	-136.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	305	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGALUR	2	0	4516	0.0	57.1	-57.1
3	765 kV	SOLAPUR-RAICHUR	2	1572	1101	0.0	11.5	-11.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2703	0.0	34.5	-34.5
5	400 kV	KOLHAPUR-KUDGI	2	1501	0	26.4	0.0	26.4
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	2	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	129	2.2	0.0	2.2
WR-SR						28.7	110.3	-81.7

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&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	659	516	583	13.98	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1133	970	1041	24.99	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	208	127	171	4.09	
	NER	132kV GELEPHU-SALAKATI	23	6	16	0.38	
	NER	132kV MOTANGA-RANGIA	35	7	18	0.43	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-56	-1.35	
	ER	NEPAL IMPORT (FROM BIHAR)	-86	-8	-41	-0.99	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	256	56	188	4.50	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-931	-756	-900	-21.60	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1313	-574	-882	-21.16	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-159	0	-131	-3.14	