



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: 16th 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, लापलंग, 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 15.06.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 16-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)	66734	57386	50524	27348	2491	204483
Peak Shortage (MW)	154	557	0	733	13	1457
Energy Met (MU)	1525	1383	1236	601	44	4790
Hydro Gen (MU)	347	34	65	101	27	572
Wind Gen (MU)	49	190	176	-	-	416
Solar Gen (MU)*	119.81	56.05	132.53	2.99	0.52	312
Energy Shortage (MU)	4.16	3.91	1.30	9.40	0.44	19.21
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	70190	61415	57788	28671	2517	210901
Time Of Maximum Demand Met	22:40	00:00	15:30	23:36	19:32	15:32

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	0.125	3.03	4.47	11.28	18.78	60.31	20.91

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	8757	0	177.8	83.4	-4.3	134	0.00
	Haryana	10484	0	222.8	162.0	-0.6	245	0.85
	Rajasthan	15444	0	315.4	100.7	-2.4	404	1.49
	Delhi	6799	0	138.5	125.9	-3.1	135	0.00
	UP	26491	0	523.2	254.3	-3.1	357	1.28
	Uttarakhand	2446	0	53.7	25.8	-0.4	71	0.08
	HP	1485	0	31.3	-3.2	-0.2	174	0.03
	J&K(UT) & Ladakh(UT)	2393	154	52.2	25.8	0.5	169	0.43
	Chandigarh	277	0	5.9	6.3	-0.4	13	0.00
Railways_NR ISTS	186	0	4.0	3.3	0.8	80	0.00	
WR	Chhattisgarh	4954	0	111.9	51.7	-0.9	323	0.00
	Gujarat	14929	0	321.3	115.8	-0.5	1254	0.00
	MP	11827	0	261.5	143.3	-4.1	1220	0.00
	Maharashtra	26926	0	613.4	203.1	2.0	1062	3.91
	Goa	711	0	15.3	14.3	0.5	145	0.00
	DNHDDPDCL	1269	0	29.6	29.8	-0.2	43	0.00
	AMNSIL	815	0	17.8	7.9	0.1	220	0.00
	BALCO	522	0	12.4	12.4	0.0	518	0.00
	Andhra Pradesh	12656	0	257.9	85.9	1.9	1012	0.00
SR	Telangana	10942	0	219.3	90.2	-0.4	487	0.00
	Karnataka	13841	0	271.7	81.9	6.9	1297	1.30
	Kerala	4145	0	81.7	55.6	2.1	465	0.00
	Tamil Nadu	18014	0	394.7	182.6	-1.0	544	0.00
	Puducherry	483	0	11.0	10.1	0.2	72	0.00
	Bihar	6278	597	123.5	115.1	-2.5	519	7.38
ER	DVC	3728	0	79.6	-37.0	0.1	347	0.00
	Jharkhand	1844	0	38.1	33.4	-1.6	410	1.71
	Odisha	6210	0	120.1	54.7	-0.6	422	0.32
	West Bengal	11454	0	238.5	105.7	-2.0	627	0.00
	Sikkim	96	0	1.4	1.4	0.0	33	0.00
	Railways_ER ISTS	13	0	0.0	0.2	-0.2	4	0.00
NER	Arunachal Pradesh	152	0	2.5	2.8	-0.7	40	0.00
	Assam	1533	0	27.1	21.2	-0.5	192	0.00
	Manipur	158	0	2.2	2.4	-0.2	30	0.00
	Meghalaya	319	13	4.2	0.7	-0.3	66	0.44
	Mizoram	98	0	1.7	1.7	-0.2	9	0.00
	Nagaland	143	0	2.5	2.3	-0.1	5	0.00
Tripura	298	0	4.1	5.2	-0.6	66	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	19.2	5.2	-25.4	-17.8
Day Peak (MW)	1730.8	240.4	-1090.0	-779.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	265.1	-291.3	104.3	-64.7	-13.4	0.0
Actual(MU)	222.1	-284.4	141.6	-69.1	-15.8	-5.5
O/D/U/D(MU)	-42.9	6.9	37.3	-4.3	-2.5	-5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	1245	10954	5908	2315	455	20876	46
State Sector	5100	13206	4801	1650	230	24986	54
Total	6344	24159	10709	3965	685	45862	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	782	1433	664	636	15	3530	68
Lignite	23	17	54	0	0	94	2
Hydro	347	34	65	101	27	572	11
Nuclear	29	31	50	0	0	110	2
Gas, Naptha & Diesel	29	24	5	0	26	84	2
RES (Wind, Solar, Biomass & Others)	175	247	337	3	1	762	15
Total	1384	1787	1174	740	68	5153	100

Share of RES in total generation (%)	12.61	13.83	28.70	0.45	0.77	14.84
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.74	17.46	38.44	14.30	40.46	28.11

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.086

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	210901	15:32	136
Non-Solar hr	210828	22:43	3474

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: 16-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	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.5	-2.5
3	765 kV	GAYA-VARANASI	2	532	379	2.6	0.0	2.6
4	765 kV	SASARAM-FATEHPUR	1	50	463	0.0	5.1	-5.1
5	765 kV	GAYA-BALIA	1	0	542	0.0	7.4	-7.4
6	400 kV	PUSAULI-VARANASI	1	0	118	0.0	1.6	-1.6
7	400 kV	PUSAULI -ALLAHABAD	1	14	82	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	880	0.0	12.7	-12.7
9	400 kV	PATNA-BALIA	2	0	537	0.0	8.7	-8.7
10	400 kV	NAUBATPUR-BALIA	2	0	546	0.0	8.6	-8.6
11	400 kV	BIHARSHARIFF-BALIA	2	0	426	0.0	6.8	-6.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	514	0.0	7.1	-7.1
13	400 kV	BIHARSHARIFF-VARANASI	2	213	223	0.0	0.7	-0.7
14	220 kV	SAHUPURI-KARAMNANA	1	0	207	0.0	3.5	-3.5
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	67	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						3.4	65.6	-62.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1045	204	6.6	0.0	6.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1401	521	19.2	0.0	19.2
3	765 kV	JHARSUGUDA-DURG	2	0	508	0.0	5.6	-5.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	380	0.0	4.3	-4.3
5	400 kV	RANCHI-SIPAT	2	277	191	3.0	0.0	3.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	133	0	2.5	0.0	2.5
ER-WR						31.4	11.0	20.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	309	0	7.6	0.0	7.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	998	0.0	24.1	-24.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	3188	0.0	59.8	-59.8
4	400 kV	TALCHER-I/C	2	431	181	5.8	0.0	5.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						7.6	83.9	-76.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	495	0	6.6	0.0	6.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	680	0	8.8	0.0	8.8
3	220 kV	ALIPURDUAR-SALAKATI	2	141	0	1.9	0.0	1.9
ER-NER						17.2	0.0	17.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	235	251	3.3	2.1	1.2
NER-NR						3.3	2.1	1.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4026	0.0	62.5	-62.5
2	HVDC	VINDHYACHAL B/B	-	448	0	7.5	0.0	7.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1904	0.0	31.0	-31.0
4	765 kV	GWALIOR-AGRA	2	374	1838	0.4	21.5	-21.1
5	765 kV	GWALIOR-PHAGI	2	700	1274	2.0	12.9	-10.8
6	765 kV	JABALPUR-ORAI	2	147	1004	0.0	21.9	-21.9
7	765 kV	GWALIOR-ORAI	1	602	0	10.2	0.0	10.2
8	765 kV	SATNA-ORAI	1	0	1024	0.0	19.1	-19.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1001	689	9.4	1.6	7.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	3261	0.0	55.6	-55.6
11	400 kV	ZERDA-KANKROLI	1	209	72	2.1	0.1	2.0
12	400 kV	ZERDA -BHINMAL	1	465	45	6.0	0.0	6.0
13	400 kV	VINDHYACHAL -RIHAND	1	960	0	20.9	0.0	20.9
14	400 kV	RAPP-SHUJALPUR	2	466	368	2.8	1.8	0.9
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.7	-2.7
17	220 kV	MEHGAON-AURAIYA	1	104	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	76	0	0.7	0.0	0.7
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						63.0	230.4	-167.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	993	0	10.4	0.0	10.4
2	HVDC	RAIGARH-PUGALUR	2	0	6024	0.0	75.9	-75.9
3	765 kV	SOLAPUR-RAICHUR	2	850	1916	1.6	10.9	-9.3
4	765 kV	WARDHA-NIZAMABAD	2	0	3038	0.0	49.3	-49.3
5	400 kV	KOLHAPUR-KUDGI	2	1440	0	24.8	0.0	24.8
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	124	2.4	0.0	2.4
WR-SR						39.2	136.0	-96.8

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)	579	154	355	8.52
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1046	203	488	11.70
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	123	-114	-23	-0.55
	NER	132kV GELEPHU-SALAKATI	-15	0	-2	-0.05
	NER	132kV MOTANGA-RANGIA	-31	-4	-17	-0.41
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-51	-1.23
	ER	NEPAL IMPORT (FROM BIHAR)	-21	0	-12	-0.29
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	333	-33	279	6.69
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-928	-749	-896	-21.50
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-779	-687	-744	-17.85
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	162	0	-163	-3.92