



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: 7th 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 06.06.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 06-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 6th June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 07-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)	58524	63198	47664	27445	3458	200289
Peak Shortage (MW)	127	0	0	0	54	181
Energy Met (MU)	1364	1475	1182	626	68	4715
Hydro Gen (MU)	225	51	65	70	8	418
Wind Gen (MU)	31	150	168	-	-	349
Solar Gen (MU)*	120.33	66.40	122.67	2.98	1.08	313
Energy Shortage (MU)	2.42	1.76	0.00	1.70	1.84	7.72
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63638	67777	56642	29020	3504	217259
Time Of Maximum Demand Met	22:35	14:47	14:58	23:53	19:02	14:46

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	0.054	0.00	1.41	3.83	5.24	63.58	31.18

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	8385	0	177.3	74.2	-1.2	248	0.00
	Haryana	8839	0	179.8	122.4	-8.5	10	0.00
	Rajasthan	13167	0	251.0	51.4	-7.4	282	0.00
	Delhi	5511	0	113.7	107.9	-2.2	161	0.01
	UP	25239	0	503.9	224.3	0.0	1193	0.00
	Uttarakhand	2272	0	47.9	27.2	0.1	252	0.08
	HP	1444	0	29.5	4.6	0.0	92	0.00
	J&K(UT) & Ladakh(UT)	2321	127	51.5	26.4	1.3	527	2.33
	Chandigarh	248	0	5.3	5.7	-0.5	16	0.00
Railways_NR ISTS	176	0	3.9	3.3	0.6	45	0.00	
WR	Chhattisgarh	4789	0	105.9	59.6	0.1	549	0.34
	Gujarat	21052	0	440.5	200.0	-3.2	754	0.00
	MP	11329	0	256.0	142.9	-7.8	412	0.00
	Maharashtra	27838	570	597.6	218.2	3.1	1037	1.42
	Goa	731	0	16.2	15.7	0.0	92	0.00
	DNHDDPDCL	1279	0	29.8	30.0	-0.2	43	0.00
	AMNSIL	758	0	17.1	10.5	-0.2	279	0.00
	BALCO	517	0	12.3	12.5	-0.2	2	0.00
	Andhra Pradesh	12388	0	244.4	62.5	0.5	840	0.00
SR	Telangana	9987	0	203.4	92.0	2.3	867	0.00
	Karnataka	13516	0	262.0	76.9	2.6	651	0.00
	Kerala	4517	0	91.3	63.0	1.8	388	0.00
	Tamil Nadu	17553	0	371.5	163.8	-4.5	572	0.00
	Puducherry	478	0	9.6	9.5	-0.6	45	0.00
	Bihar	6654	0	145.1	134.2	0.2	330	0.72
ER	DVC	3427	0	76.2	-47.9	-0.2	296	0.00
	Jharkhand	1822	0	36.4	35.5	-3.7	402	0.99
	Odisha	6545	0	129.3	49.5	0.7	1155	0.00
	West Bengal	11057	0	237.6	123.1	-2.2	487	0.00
	Sikkim	87	0	1.5	1.2	0.3	41	0.00
	Railways_ER ISTS	11	0	0.0	0.3	-0.3	7	0.00
NER	Arunachal Pradesh	171	0	2.9	2.4	0.5	96	0.00
	Assam	2327	0	46.3	39.9	0.1	210	0.35
	Manipur	157	0	2.3	2.4	-0.1	34	0.00
	Meghalaya	315	54	4.4	2.9	0.2	182	1.49
	Mizoram	100	0	1.8	1.7	-0.2	9	0.00
	Nagaland	168	0	3.0	2.8	-0.1	26	0.00
	Tripura	357	0	7.0	7.1	0.8	147	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	4.0	-7.4	-25.3	-17.9
Day Peak (MW)	468.3	-630.8	-1104.0	-650.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	210.9	-244.1	69.8	-62.1	25.4	0.0
Actual(MU)	176.5	-253.2	99.9	-57.8	27.6	-7.0
O/D/U/D(MU)	-34.5	-9.1	30.1	4.3	2.2	-7.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	1445	6170	5518	470	830	14433	38
State Sector	5060	11718	4038	2158	266	23239	62
Total	6505	17888	9556	2628	1096	37672	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	797	1493	680	696	16	3682	72
Lignite	22	20	50	0	0	91	2
Hydro	225	51	65	70	8	418	8
Nuclear	30	32	46	0	0	107	2
Gas, Naptha & Diesel	40	44	7	0	23	114	2
RES (Wind, Solar, Biomass & Others)	178	218	310	3	1	711	14
Total	1291	1858	1157	769	48	5122	100

Share of RES in total generation (%)	13.81	11.72	26.81	0.43	2.27	13.87
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.49	16.20	36.38	9.51	18.52	24.13

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.015
Based on State Max Demands	1.047

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	217259	14:46	435
Non-Solar hr	210865	22:36	619

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: 07-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	519	26	5.8	0.0	5.8
4	765 kV	SASARAM-FATEHPUR	1	76	188	0.0	2.1	-2.1
5	765 kV	GAYA-BALIA	1	0	667	0.0	11.6	-11.6
6	400 kV	PUSAULI-VARANASI	1	0	106	0.0	1.6	-1.6
7	400 kV	PUSAULI -ALLAHABAD	1	1	88	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	281	315	0.0	1.5	-1.5
9	400 kV	PATNA-BALIA	2	0	404	0.0	6.9	-6.9
10	400 kV	NAUBATPUR-BALIA	2	0	405	0.0	6.9	-6.9
11	400 kV	BIHARSHARIFF-BALIA	2	219	90	0.9	0.0	0.9
12	400 kV	MOTIHARI-GORAKHPUR	2	63	263	0.0	3.5	-3.5
13	400 kV	BIHARSHARIFF-VARANASI	2	238	50	1.0	0.0	1.0
14	220 kV	SAHUPURI-KARAMNANA	1	1	178	0.0	2.9	-2.9
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-CHANDAUJI	1	0	0	0.0	0.0	0.0
ER-NR						8.5	40.1	-31.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1200	179	15.8	0.0	15.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1749	0	31.8	0.0	31.8
3	765 kV	JHARSUGUDA-DURG	2	0	476	0.0	5.2	-5.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	385	0.0	4.7	-4.7
5	400 kV	RANCHI-SIPAT	2	374	0	5.6	0.0	5.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	217	0	3.0	0.0	3.0
ER-WR						56.2	10.9	45.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	541	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	14	1491	0.0	24.9	-24.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2701	0.0	46.4	-46.4
4	400 kV	TALCHER-I/C	2	846	154	4.2	0.0	4.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	83.7	-83.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	241	0.0	4.0	-4.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	688	0.0	11.7	-11.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	127	0.0	2.2	-2.2
ER-NER						0.0	17.8	-17.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	386	0	9.1	0.0	9.1
NER-NR						9.1	0.0	9.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2514	0.0	58.6	-58.6
2	HVDC	VINDHYACHAL B/B	-	443	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	302	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	2134	0.0	34.6	-34.6
5	765 kV	GWALIOR-PHAGI	2	147	1145	0.1	11.3	-11.2
6	765 kV	JABALPUR-ORAI	2	0	1021	0.0	29.5	-29.5
7	765 kV	GWALIOR-ORAI	1	600	0	10.1	0.0	10.1
8	765 kV	SATNA-ORAI	1	0	1065	0.0	21.1	-21.1
9	765 kV	BANASKANTHA-CHITORGARH	2	985	0	11.2	0.0	11.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	3304	0.0	64.9	-64.9
11	400 kV	ZERDA-KANKROLI	1	209	0	3.3	0.0	3.3
12	400 kV	ZERDA -BHINMAL	1	460	0	7.4	0.0	7.4
13	400 kV	VINDHYACHAL -RIHAND	1	964	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	286	299	2.3	0.8	1.5
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.2	-2.2
17	220 kV	MEHGAON-AURAIYA	1	104	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	77	0	0.9	0.0	0.9
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						70.6	230.3	-159.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	370	314	1.9	5.2	-3.3
2	HVDC	RAIGARH-PUGALUR	2	0	4009	0.0	42.6	-42.6
3	765 kV	SOLAPUR-RAICHUR	2	1539	1316	9.7	3.7	6.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2398	0.0	34.4	-34.4
5	400 kV	KOLHAPUR-KUDGI	2	1415	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	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	1	133	2.6	0.0	2.6
WR-SR						38.9	85.9	-47.0

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)	279	77	182	4.37
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	219	87	128	3.06
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-153	28	-85	-2.05
	NER	132kV GELEPHU-SALAKATI	-22	-1	-13	-0.30
	NER	132kV MOTANGA-RANGIA	-55	-35	-46	-1.11
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-61	-1.46
	ER	NEPAL IMPORT (FROM BIHAR)	-227	-11	-63	-1.50
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-330	-59	-183	-4.40
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-930	-802	-903	-21.68
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-650	-450	-650	-17.93
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-174	0	-149	-3.58