



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: 18th 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 17.06.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-जून-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 17th June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 18-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)	67548	57629	49388	26720	2413	203698
Peak Shortage (MW)	50	0	0	11	6	67
Energy Met (MU)	1578	1362	1236	631	43	4850
Hydro Gen (MU)	330	28	50	125	30	563
Wind Gen (MU)	69	131	223	-	-	424
Solar Gen (MU)*	71.46	41.53	111.69	2.86	0.35	228
Energy Shortage (MU)	6.67	2.42	0.00	4.96	0.63	14.68
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	69834	58936	56420	28797	2524	211781
Time Of Maximum Demand Met	12:27	22:38	14:36	00:04	19:06	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	0.52	8.45	8.97	65.71	25.32

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	11794	0	240.4	111.7	-1.0	244	0.00
	Haryana	10237	0	230.1	164.3	-0.3	262	5.00
	Rajasthan	12474	0	254.8	45.9	-9.6	484	0.00
	Delhi	6531	0	132.1	119.5	-2.0	237	0.00
	UP	26827	0	568.5	268.7	-1.9	377	0.00
	Uttarakhand	2536	0	55.8	26.0	0.0	165	0.29
	HP	1585	0	33.0	-0.2	-0.1	108	0.00
	J&K(UT) & Ladakh(UT)	2480	100	52.7	26.9	2.3	256	1.38
	Chandigarh	332	0	6.6	6.3	0.3	38	0.00
Railways NR ISTS	182	0	4.1	3.2	0.9	69	0.00	
WR	Chhattisgarh	5227	0	117.8	61.5	-0.2	409	0.00
	Gujarat	13653	0	296.3	141.6	-2.3	853	0.00
	MP	11348	0	257.8	127.7	-4.3	173	0.00
	Maharashtra	27188	0	613.8	184.5	5.1	1092	2.42
	Goa	683	0	15.0	13.6	0.9	130	0.00
	DNHDDPDCL	1284	0	29.9	29.9	0.0	67	0.00
	AMNSIL	841	0	19.4	9.4	-0.1	266	0.00
	BALCO	522	0	12.4	12.3	0.1	180	0.00
SR	Andhra Pradesh	12900	0	261.0	79.4	1.0	808	0.00
	Telangana	11280	0	224.6	97.1	2.2	597	0.00
	Karnataka	13621	0	274.3	78.8	1.9	800	0.00
	Kerala	3924	0	81.9	62.8	2.5	616	0.00
	Tamil Nadu	17597	0	383.2	155.3	-2.8	467	0.00
	Puducherry	488	0	11.3	10.7	-0.1	73	0.00
ER	Bihar	7056	577	148.3	137.4	0.2	404	4.45
	DVC	3512	0	80.1	-52.6	0.5	298	0.00
	Jharkhand	1902	0	43.3	33.7	0.7	157	0.51
	Odisha	5966	0	130.2	49.6	-0.6	457	0.00
	West Bengal	11226	0	227.6	90.9	-3.1	329	0.00
	Sikkim	83	0	1.2	1.3	0.0	35	0.00
	Railways ER ISTS	25	0	0.1	0.2	-0.1	7	0.00
NER	Arunachal Pradesh	146	0	2.3	2.5	-0.2	21	0.00
	Assam	1518	0	26.5	20.1	0.2	128	0.00
	Manipur	158	0	2.2	2.5	-0.3	28	0.00
	Meghalaya	288	6	4.4	0.6	-0.1	55	0.63
	Mizoram	105	0	1.7	1.7	-0.2	24	0.00
	Nagaland	131	0	2.3	2.1	-0.1	11	0.00
	Tripura	237	0	3.7	4.3	-0.5	29	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	43.9	3.4	-25.1	-18.8
Day Peak (MW)	2058.0	186.7	-1105.0	-815.8

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	269.9	-213.3	79.0	-112.9	-22.7	-0.1
Actual(MU)	243.1	-229.6	104.3	-98.5	-22.4	-3.1
O/D/U/D(MU)	-26.8	-16.3	25.3	14.4	0.4	-3.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	1389	10351	6138	3170	455	21503	47
State Sector	5940	13016	3673	1050	230	23908	53
Total	7328	23367	9811	4220	685	45411	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	853	1400	687	677	15	3631	70
Lignite	22	16	59	0	0	96	2
Hydro	330	28	50	125	30	563	11
Nuclear	29	29	51	0	0	109	2
Gas, Naptha & Diesel	46	55	6	0	28	135	3
RES (Wind, Solar, Biomass & Others)	147	174	358	3	0	683	13
Total	1428	1702	1210	805	73	5218	100

Share of RES in total generation (%)	10.33	10.22	29.62	0.40	0.48	13.13
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.48	13.58	37.96	16.20	41.72	26.05

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
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	211781	14:46	497
Non-Solar hr	209597	22:38	1767

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: 18-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	21.8	-21.8
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.6	-2.6
3	765 kV	GAYA-VARANASI	2	511	208	1.7	0.0	1.7
4	765 kV	SASARAM-FATEHPUR	1	51	331	0.0	4.1	-4.1
5	765 kV	GAYA-BALIA	1	0	577	0.0	10.6	-10.6
6	400 kV	PUSAULI-VARANASI	1	0	108	0.0	1.7	-1.7
7	400 kV	PUSAULI-ALLAHABAD	1	5	62	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	874	0.0	13.9	-13.9
9	400 kV	PATNA-BALIA	2	0	628	0.0	10.2	-10.2
10	400 kV	NAUBATPUR-BALIA	2	0	658	0.0	10.3	-10.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	465	0.0	6.0	-6.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	471	0.0	7.4	-7.4
13	400 kV	BIHARSHARIFF-VARANASI	2	118	177	0.0	1.6	-1.6
14	220 kV	SAHUPURI-KARAMNANA	1	0	201	0.0	4.0	-4.0
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.9	0.0	0.9
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						2.6	94.7	-92.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1388	46	14.6	0.0	14.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1605	101	22.3	0.0	22.3
3	765 kV	JHARSUGUDA-DURG	2	22	339	0.0	2.9	-2.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	453	0.0	5.7	-5.7
5	400 kV	RANCHI-SIPAT	2	356	104	3.4	0.0	3.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.9	-1.9
7	220 kV	BUDHIPADAR-KORBA	2	122	0	1.9	0.0	1.9
ER-WR						42.2	10.5	31.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	246	0	6.1	0.0	6.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	41.0	-41.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	3209	0.0	53.0	-53.0
4	400 kV	TALCHER-I/C	2	617	1168	0.0	10.0	-10.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						6.1	94.0	-88.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	484	24	4.7	0.0	4.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	729	0	10.9	0.0	10.9
3	220 kV	ALIPURDUAR-SALAKATI	2	122	1	1.4	0.0	1.4
ER-NER						17.0	0.0	17.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	251	0.0	6.1	-6.1
NER-NR						0.0	6.1	-6.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	5047	0.0	65.1	-65.1
2	HVDC	VINDHYACHAL B/B	-	448	0	11.6	0.0	11.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	294	0.0	7.8	-7.8
4	765 kV	GWALIOR-AGRA	2	0	1746	0.0	25.5	-25.5
5	765 kV	GWALIOR-PHAGI	2	0	992	0.0	16.4	-16.4
6	765 kV	JABALPUR-ORAI	2	0	904	0.0	30.5	-30.5
7	765 kV	GWALIOR-ORAI	1	618	0	11.8	0.0	11.8
8	765 kV	SATNA-ORAI	1	0	1048	0.0	21.0	-21.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1221	0	20.2	0.0	20.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	3491	0.0	65.0	-65.0
11	400 kV	ZERDA-KANKROLI	1	301	0	5.0	0.0	5.0
12	400 kV	ZERDA -BHINMAL	1	707	0	11.9	0.0	11.9
13	400 kV	VINDHYACHAL -RIHAND	1	966	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUALPUR	2	254	261	1.1	1.4	-0.3
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	126	0	1.8	0.0	1.8
18	220 kV	MALANPUR-AURAIYA	1	92	0	1.2	0.0	1.2
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						86.3	234.9	-148.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	694	304	8.5	1.7	6.9
2	HVDC	RAIGARH-PUGALUR	2	0	4008	0.0	42.6	-42.6
3	765 kV	SOLAPUR-RAICHUR	2	1523	1608	8.9	9.2	-0.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2880	0.0	40.8	-40.8
5	400 kV	KOLHAPUR-KUDGI	2	1548	0	26.2	0.0	26.2
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	114	2.2	0.0	2.2
WR-SR						45.7	94.3	-48.5

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)	653	477	579	13.91	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1129	1028	1051	25.23	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	226	114	167	4.02	
	NER	132kV GELEPHU-SALAKATI	17	7	13	0.31	
	NER	132kV MOTANGA-RANGIA	34	5	18	0.43	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-60	-1.43	
	ER	NEPAL IMPORT (FROM BIHAR)	-44	-7	-29	-0.69	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	305	56	228	5.48	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-930	-761	-892	-21.41	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-816	-581	-785	-18.83	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-175	0	-152	-3.64	