



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: 31th May 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 30.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-मई-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 30th May 2023, is available at the NLDC website.

धन्यवाद,

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 31-May-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)	53358	59786	45858	25841	3343	188186
Peak Shortage (MW)	0	0	0	464	16	480
Energy Met (MU)	1179	1411	1135	594	64	4382
Hydro Gen (MU)	236	55	62	58	10	422
Wind Gen (MU)	17	73	46	-	-	137
Solar Gen (MU)*	95.16	61.53	99.33	2.97	1.38	260
Energy Shortage (MU)	1.75	3.46	0.00	7.71	1.32	14.24
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54227	63775	52904	27111	3380	196231
Time Of Maximum Demand Met	22:25	16:06	11:01	23:17	18:56	15:19

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	0.103	1.30	3.17	6.56	11.03	50.65	38.32

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	7177	0	152.1	54.3	0.1	261	0.00
	Haryana	7415	0	146.0	94.6	-9.6	0	0.00
	Rajasthan	9308	0	205.2	38.5	-8.9	245	0.00
	Delhi	4871	0	97.7	94.6	-3.0	128	0.00
	UP	22203	0	438.7	192.3	-2.0	416	1.33
	Uttarakhand	2219	0	46.6	27.1	0.2	187	0.19
	HP	1407	0	27.8	1.6	0.5	166	0.01
	J&K(UT) & Ladakh(UT)	2792	0	56.2	32.8	0.3	180	0.22
	Chandigarh	238	0	4.8	5.0	-0.2	20	0.00
	Railways NR ISTS	174	0	3.9	3.2	0.7	48	0.00
WR	Chhattisgarh	4848	0	108.5	46.2	-0.8	295	0.00
	Gujarat	18941	0	397.0	197.3	-0.8	2292	0.00
	MP	10801	0	237.0	131.8	-4.4	502	0.00
	Maharashtra	27226	0	594.1	215.0	3.9	1104	3.46
	Goa	750	0	15.6	15.5	-0.1	94	0.00
	DNHDDPDCL	1227	0	28.8	29.1	-0.3	32	0.00
SR	AMNSIL	800	0	17.3	8.1	-0.5	275	0.00
	BALCO	522	0	12.5	12.3	0.2	518	0.00
	Andhra Pradesh	10528	0	219.5	72.8	-2.5	706	0.00
	Telangana	8624	0	185.6	64.0	-0.1	1022	0.00
	Karnataka	13020	0	245.3	87.6	1.7	685	0.00
	Kerala	4515	0	93.4	65.9	1.1	321	0.00
ER	Tamil Nadu	18141	0	380.3	225.1	0.5	1119	0.00
	Puducherry	456	0	10.6	9.9	0.0	76	0.00
	Bihar	6338	0	131.4	123.8	-4.1	193	5.78
	DVC	3463	0	76.7	-44.4	1.6	330	0.00
	Jharkhand	1662	0	37.4	29.0	0.6	151	1.93
	Odisha	6058	0	123.1	52.2	0.1	455	0.00
NER	West Bengal	10741	0	223.0	107.7	-2.5	192	0.00
	Sikkim	96	0	2.0	1.5	0.4	49	0.00
	Railways ER ISTS	9	0	0.1	0.2	-0.2	4	0.00
	Assam	2188	0	42.6	35.9	0.1	293	0.00
	Manipur	177	0	2.5	2.4	0.1	19	0.00
	Meghalaya	325	24	5.1	3.8	-0.1	75	1.32
NER	Mizoram	109	0	1.8	1.8	-0.2	12	0.00
	Nagaland	162	0	2.5	2.5	-0.1	25	0.00
	Tripura	337	0	6.4	6.7	0.5	103	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	3.0	-6.2	-25.1	-21.2
Day Peak (MW)	292.9	-425.5	-1069.0	-1001.9

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	143.8	-244.0	141.1	-54.1	13.5	0.2
Actual(MU)	101.6	-231.7	162.1	-52.5	15.9	-4.7
OD/UD(MU)	-42.2	12.3	21.1	1.6	2.4	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	1786	9783	5578	930	455	18531	41
State Sector	7195	14104	2998	1960	241	26498	59
Total	8980	23887	8576	2890	696	45028	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	729	1512	723	666	16	3645	77
Lignite	20	14	45	0	0	78	2
Hydro	236	55	62	58	10	422	9
Nuclear	30	37	46	0	0	112	2
Gas, Naptha & Diesel	18	11	6	0	28	63	1
RES (Wind, Solar, Biomass & Others)	122	136	167	3	1	429	9
Total	1154	1765	1049	727	55	4750	100
Share of RES in total generation (%)	10.55	7.70	15.94	0.40	2.50	9.03	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.60	12.89	26.26	8.44	20.73	20.28	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.070

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	196231	15:19	245
Non-Solar hr	192743	22:42	953

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: 31-May-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	95	0.0	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	662	29	7.5	0.0	7.5
4	765 kV	SASARAM-FATEHPUR	1	150	144	0.0	0.1	-0.1
5	765 kV	GAYA-BALIA	1	0	507	0.0	8.7	-8.7
6	400 kV	PUSAULI-VARANASI	1	0	97	0.0	1.5	-1.5
7	400 kV	PUSAULI-ALLAHABAD	1	0	77	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	222	402	0.0	2.7	-2.7
9	400 kV	PATNA-BALIA	2	0	368	0.0	4.6	-4.6
10	400 kV	NAUBATPUR-BALIA	2	13	367	0.0	4.5	-4.5
11	400 kV	BIHARSHARIFF-BALIA	2	227	119	1.6	0.0	1.6
12	400 kV	MOTIHARI-GORAKHPUR	2	28	285	0.0	3.7	-3.7
13	400 kV	BIHARSHARIFF-VARANASI	2	236	68	1.5	0.0	1.5
14	220 kV	SAHUPURI-KARAMNANA	1	0	160	0.0	2.7	-2.7
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	64	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						11.3	31.6	-20.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1052	0	12.3	0.0	12.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1413	0	19.3	0.0	19.3
3	765 kV	JHARSUGUDA-DURG	2	0	456	0.0	6.0	-6.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	383	0.0	4.8	-4.8
5	400 kV	RANCHI-SIPAT	2	318	48	2.8	0.0	2.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	233	0	3.6	0.0	3.6
ER-WR						38.0	12.4	25.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	706	0.0	14.0	-14.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1652	0.0	35.0	-35.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2308	0.0	46.7	-46.7
4	400 kV	TALCHER-I/C	2	715	0	9.5	0.0	9.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	95.7	-95.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	9	177	0.0	2.1	-2.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	96	482	0.0	5.3	-5.3
3	220 kV	ALIPURDUAR-SALAKATI	2	36	57	0.0	0.3	-0.3
ER-NER						0.0	7.7	-7.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	287	0	6.9	0.0	6.9
NER-NR						6.9	0.0	6.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2012	0.0	44.3	-44.3
2	HVDC	VINDHYACHAL B/B	-	451	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1449	0.0	17.4	-17.4
4	765 kV	GWALIOR-AGRA	2	0	1535	0.0	21.6	-21.6
5	765 kV	GWALIOR-PHAGI	2	382	944	0.4	10.0	-9.6
6	765 kV	JABALPUR-ORAI	2	0	695	0.0	21.6	-21.6
7	765 kV	GWALIOR-ORAI	1	643	0	10.3	0.0	10.3
8	765 kV	SATNA-ORAI	1	0	919	0.0	19.4	-19.4
9	765 kV	BANASKANTHA-CHITORGARH	2	2097	56	27.5	0.0	27.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	2700	0.0	49.9	-49.9
11	400 kV	ZERDA-KANKROLI	1	382	0	5.4	0.0	5.4
12	400 kV	ZERDA-BHINMAL	1	748	0	10.0	0.0	10.0
13	400 kV	VINDHYACHAL-RIHAND	1	955	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	493	116	4.5	0.1	4.4
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	63	37	0.6	0.1	0.6
18	220 kV	MALANPUR-AURAIYA	1	45	42	0.4	0.1	0.2
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						93.2	186.3	-93.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1002	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	5011	0.0	83.2	-83.2
3	765 kV	SOLAPUR-RAICHUR	2	965	644	2.4	3.4	-1.0
4	765 kV	WARDHA-NIZAMABAD	2	0	1574	0.0	27.4	-27.4
5	400 kV	KOLHAPUR-KUDGI	2	1189	0	21.0	0.0	21.0
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	2	1	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	1	139	1.6	0.0	1.6
WR-SR						25.0	137.9	-112.9

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)	186	9	97	2.33	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	187	123	158	3.79	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-115	7	-77	-1.85	
	NER	132kV GELEPHU-SALAKATI	-27	-12	-17	-0.40	
	NER	132kV MOTANGA-RANGIA	-58	-27	-38	-0.92	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-69	0	-52	-1.24	
	ER	NEPAL IMPORT (FROM BIHAR)	-61	-11	-28	-0.68	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-296	-6	-177	-4.25	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-928	-792	-908	-21.79	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1002	-695	-884	-21.22	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-141	0	-138	-3.32	