



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: 29th 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 28.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28th May 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 29-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)	52883	55179	43809	23834	2961	178666
Peak Shortage (MW)	0	0	0	412	43	455
Energy Met (MU)	1152	1379	1115	519	53	4218
Hydro Gen (MU)	237	41	76	65	14	433
Wind Gen (MU)	32	178	74	-	-	283
Solar Gen (MU)*	84.52	61.56	122.67	3.69	1.27	274
Energy Shortage (MU)	3.50	1.58	0.00	5.26	1.32	11.66
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53475	63095	51662	24755	3001	190900
Time Of Maximum Demand Met	00:01	00:00	14:35	23:29	19:03	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	0.102	1.68	5.67	11.63	18.98	65.52	15.50

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	7159	0	161.2	78.6	-1.5	68	0.00
	Haryana	7256	0	146.8	95.2	-0.7	188	0.00
	Rajasthan	10633	0	213.8	55.8	-10.3	403	0.55
	Delhi	4780	0	98.0	93.4	-1.6	137	0.00
	UP	20884	0	399.3	185.9	-3.1	313	2.08
	Uttarakhand	2010	0	42.4	25.1	-1.3	106	0.00
	HP	1326	0	26.4	3.4	0.8	138	0.82
	J&K(UT) & Ladakh(UT)	2779	0	55.9	30.9	-0.4	226	0.05
	Chandigarh	239	0	4.7	4.5	0.2	37	0.00
Railways_NR ISTS	170	0	3.7	3.2	0.5	28	0.00	
WR	Chhattisgarh	4515	0	97.9	38.9	-1.5	375	0.00
	Gujarat	19540	0	409.5	196.3	-3.5	1285	0.00
	MP	11150	0	230.0	115.7	-4.1	821	0.00
	Maharashtra	25977	877	568.1	193.7	-2.1	841	1.58
	Goa	717	0	13.6	13.4	-0.1	156	0.00
	DNHDDPDCL	1218	0	28.2	28.4	-0.2	34	0.00
	AMNSIL	853	0	18.9	10.4	-0.3	243	0.00
	BALCO	521	0	12.4	12.5	-0.1	13	0.00
SR	Andhra Pradesh	11997	0	233.8	84.5	-1.7	461	0.00
	Telangana	9049	0	191.7	60.1	-0.4	404	0.00
	Karnataka	12636	0	246.6	88.8	0.0	912	0.00
	Kerala	4458	0	87.5	61.6	-0.2	242	0.00
	Tamil Nadu	15667	0	345.2	201.6	5.2	1232	0.00
	Puducherry	474	0	10.4	9.8	-0.1	56	0.00
ER	Bihar	5918	0	122.2	117.1	-1.2	263	1.65
	DVC	3369	0	74.3	-42.2	0.7	368	0.00
	Jharkhand	1715	0	32.5	25.5	-1.6	296	3.61
	Odisha	5721	0	116.0	47.3	-0.9	396	0.00
	West Bengal	8790	0	172.6	62.2	-2.7	271	0.00
	Sikkim	82	0	1.7	1.3	0.4	40	0.00
	Railways_ER ISTS	8	0	0.2	0.2	0.0	0	0.00
NER	Arunachal Pradesh	149	0	2.6	2.8	-0.2	22	0.00
	Assam	1905	0	34.0	27.7	0.0	154	0.00
	Manipur	160	0	2.3	2.5	-0.2	18	0.00
	Meghalaya	308	43	5.2	3.2	-0.2	36	1.32
	Mizoram	102	0	1.8	1.7	-0.3	3	0.00
	Nagaland	145	0	2.5	2.4	-0.1	20	0.00
	Tripura	296	0	4.8	4.4	0.2	50	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	8.1	-2.5	-25.9	-17.6
Day Peak (MW)	557.0	-299.5	-1109.0	-789.4

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	191.7	-265.3	165.2	-92.8	1.2	0.0
Actual(MU)	173.8	-271.6	185.4	-93.3	1.2	-4.4
O/D/U/D(MU)	-17.9	-6.3	20.3	-0.5	0.0	-4.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6949	9546	7078	2250	455	26277	46
State Sector	8395	13940	5816	1940	241	30331	54
Total	15344	23485	12894	4190	696	56608	100

G. Sourcwise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	626	1384	626	626	15	3277	72
Lignite	24	17	39	0	0	79	2
Hydro	237	41	76	65	14	433	10
Nuclear	30	38	46	0	0	114	3
Gas, Naptha & Diesel	10	6	6	0	29	50	1
RES (Wind, Solar, Biomass & Others)	126	240	215	4	1	587	13
Total	1053	1726	1007	695	59	4540	100

Share of RES in total generation (%)	11.96	13.93	21.39	0.53	2.14	12.92
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.33	18.51	33.46	9.88	26.04	24.97

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.072

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	188306	14:33	671
Non-Solar hr	190900	0:00	1337

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: 29-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	97	0.0	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	654	341	1.1	0.0	1.1
4	765 kV	SASARAM-FATEHPUR	1	96	463	0.0	6.2	-6.2
5	765 kV	GAYA-BALIA	1	0	636	0.0	10.4	-10.4
6	400 kV	PUSAULI-VARANASI	1	33	80	0.0	0.4	-0.4
7	400 kV	PUSAULI -ALLAHABAD	1	0	145	0.0	1.8	-1.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	105	685	0.0	8.9	-8.9
9	400 kV	PATNA-BALIA	2	0	525	0.0	8.7	-8.7
10	400 kV	NAUBATPUR-BALIA	2	0	554	0.0	8.9	-8.9
11	400 kV	BIHARSHARIFF-BALIA	2	78	362	0.0	4.5	-4.5
12	400 kV	MOTIHARI-GORAKHPUR	2	41	393	0.0	5.7	-5.7
13	400 kV	BIHARSHARIFF-VARANASI	2	221	265	0.0	2.2	-2.2
14	220 kV	SAHUPURI-KARAMNANA	1	0	151	0.0	2.3	-2.3
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.7	0.0	0.7
17	132 kV	KARMANASA-SAHUPURI	1	0	56	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						1.8	62.2	-60.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	873	433	6.5	0.0	6.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	929	490	9.0	0.0	9.0
3	765 kV	JHARSUGUDA-DURG	2	0	469	0.0	6.8	-6.8
4	400 kV	JHARSUGUDA-RAIGARH	4	119	420	0.0	2.7	-2.7
5	400 kV	RANCHI-SIPAT	2	252	131	1.6	0.0	1.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	164	0	4.1	0.0	4.1
ER-WR						21.3	10.9	10.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	765	0.0	13.6	-13.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1673	0.0	36.8	-36.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2936	0.0	50.1	-50.1
4	400 kV	TALCHER-I/C	2	902	255	7.4	0.0	7.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	100.5	-100.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	214	88	2.0	0.2	1.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	641	171	7.5	0.0	7.5
3	220 kV	ALIPURDUAR-SALAKATI	2	114	11	1.5	0.0	1.5
ER-NER						11.0	0.2	10.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	478	0	9.4	0.0	9.4
NER-NR						9.4	0.0	9.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3534	0.0	32.2	-32.2
2	HVDC	VINDHYACHAL B/B	-	449	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	979	0.0	15.7	-15.7
4	765 kV	GWALIOR-AGRA	2	0	2296	0.0	37.5	-37.5
5	765 kV	GWALIOR-PHAGI	2	634	1154	1.4	14.5	-13.1
6	765 kV	JABALPUR-ORAI	2	0	870	0.0	26.8	-26.8
7	765 kV	GWALIOR-ORAI	1	889	0	15.5	0.0	15.5
8	765 kV	SATNA-ORAI	1	0	1003	0.0	20.5	-20.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1223	411	8.2	1.2	7.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2624	0.0	46.1	-46.1
11	400 kV	ZERDA-KANKROLI	1	307	1	2.5	0.0	2.5
12	400 kV	ZERDA-BHINMAL	1	687	40	5.7	0.0	5.6
13	400 kV	VINDHYACHAL -RIHAND	1	971	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	417	299	1.8	1.9	-0.1
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.9	-1.9
17	220 kV	MEHGAON-AURAIYA	1	48	29	0.0	0.1	-0.1
18	220 kV	MALANPUR-AURAIYA	1	35	34	0.2	0.0	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						69.4	198.5	-129.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1005	0.0	23.9	-23.9
2	HVDC	RAIGARH-PUGALUR	2	0	6624	0.0	102.7	-102.7
3	765 kV	SOLAPUR-RAICHUR	2	890	2177	4.4	7.0	-2.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2569	0.0	27.5	-27.5
5	400 kV	KOLHAPUR-KUDGI	2	1204	0	22.6	0.0	22.6
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	130	2.5	0.0	2.5
WR-SR						29.5	161.1	-131.6

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)	204	10	145	3.48
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	350	177	252	6.05
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-126	-22	-92	-2.21
	NER	132kV GELEPHU-SALAKATI	-12	4	-4	-0.09
	NER	132kV MOTANGA-RANGIA	47	25	37	0.88
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-67	0	-35	-0.84
	ER	NEPAL IMPORT (FROM BIHAR)	-50	0	-14	-0.33
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-183	0	-56	-1.34
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-930	-850	-929	-22.28
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-789	-626	-733	-17.59
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-179	0	-149	-3.58