



National Load Despatch Centre

राष्ट्रीय भार प्रेषण केंद्र

GRID CONTROLLER OF INDIA LIMITED

ग्रिड 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: 27th 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 , 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 26.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-मई-2023 की अखिल भारतीय प्रणाली की

दैनिक ग्रिड 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 26th May 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 27-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)	57028	61233	47714	19404	3001	188380
Peak Shortage (MW)	135	0	0	0	36	171
Energy Met (MU)	1148	1448	1165	484	49	4294
Hydro Gen (MU)	263	50	61	78	12	464
Wind Gen (MU)	56	246	152	-	-	454
Solar Gen (MU)*	129.76	64.03	127.63	5.50	1.04	328
Energy Shortage (MU)	0.39	0.00	0.00	0.53	1.00	1.92
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57572	65317	55312	23400	3090	196387
Time Of Maximum Demand Met	22:35	23:33	14:42	12:43	18:55	15:00

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	0.061	0.03	1.01	11.17	12.21	66.77	21.02

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	7245	0	160.6	87.6	-1.7	105	0.00	
	Haryana	8306	0	161.1	113.7	-0.9	155	0.00	
	Rajasthan	10327	0	195.1	17.8	-10.6	432	0.00	
	Delhi	4991	0	103.8	96.9	-3.2	184	0.00	
	UP	21210	0	391.7	183.3	-4.5	558	0.00	
	Uttarakhand	2091	0	43.5	21.7	-0.2	140	0.04	
	HP	1515	0	29.3	2.0	0.4	118	0.14	
	J&K(UT) & Ladakh(UT)	2715	135	54.7	28.8	-0.2	208	0.21	
	Chandigarh	241	0	5.0	5.3	-0.3	71	0.00	
	Railways_NR ISTS	168	0	3.7	3.2	0.5	41	0.00	
WR	Chhattisgarh	4901	0	106.9	47.7	-1.8	197	0.00	
	Gujarat	20570	0	439.6	169.1	0.8	823	0.00	
	MP	11680	0	239.2	129.5	-5.9	655	0.00	
	Maharashtra	26570	0	587.9	198.8	0.4	684	0.00	
	Goa	747	0	17.0	15.9	0.8	80	0.00	
	DNHDDPDCL	1199	0	27.9	28.2	-0.3	96	0.00	
	AMNSIL	783	0	17.5	10.7	0.0	234	0.00	
	BALCO	521	0	12.4	12.5	-0.1	6	0.00	
	SR	Andhra Pradesh	11628	0	237.2	77.4	-1.8	659	0.00
		Telangana	9422	0	195.0	68.9	-1.2	354	0.00
Karnataka		12777	0	253.7	81.0	0.4	640	0.00	
Kerala		4447	0	92.7	68.1	0.1	235	0.00	
Tamil Nadu		17621	0	375.5	195.3	-2.6	1013	0.00	
Puducherry		463	0	10.7	10.5	-0.5	39	0.00	
ER	Bihar	5498	0	103.5	96.2	-1.8	284	0.53	
	DVC	3141	0	65.3	-35.4	0.1	353	0.00	
	Jharkhand	1424	0	27.3	21.4	-2.4	254	0.00	
	Odisha	6144	0	124.2	54.9	-2.8	381	0.00	
	West Bengal	8867	0	161.6	51.2	-4.0	287	0.00	
	Sikkim	90	0	1.5	1.5	-0.1	36	0.00	
	Railways_ER ISTS	9	0	0.1	0.3	-0.2	0	0.00	
NER	Arunachal Pradesh	157	0	2.6	2.7	-0.2	36	0.00	
	Assam	2021	0	30.1	24.1	-0.2	149	0.00	
	Manipur	170	0	2.2	2.4	-0.2	18	0.00	
	Meghalaya	305	36	4.9	4.0	-0.2	58	1.00	
	Mizoram	135	0	1.7	1.8	-0.3	6	0.00	
	Nagaland	136	0	2.5	2.4	-0.1	7	0.00	
	Tripura	290	0	5.0	4.7	-0.2	43	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	14.0	-3.3	-24.9	-12.6
Day Peak (MW)	858.0	-318.0	-1089.0	-786.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	151.2	-231.5	148.0	-71.2	3.6	0.0
Actual(MU)	110.4	-211.0	175.0	-83.2	4.2	-4.6
O/D/U/D(MU)	-40.8	20.5	27.0	-11.9	0.6	-4.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7059	7926	7248	2230	480	24942	45
State Sector	8695	13883	5703	2130	241	30651	55
Total	15754	21808	12951	4360	721	55593	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	589	1343	614	561	11	3118	67
Lignite	20	19	38	0	0	77	2
Hydro	263	50	61	78	12	464	10
Nuclear	30	38	46	0	0	114	2
Gas, Naptha & Diesel	14	16	6	0	27	63	1
RES (Wind, Solar, Biomass & Others)	195	311	299	6	1	812	17
Total	1112	1777	1064	644	51	4648	100

Share of RES in total generation (%)	17.57	17.51	28.10	0.86	2.02	17.47
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.96	22.45	38.19	12.91	25.19	29.91

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.071

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	196387	15:00	93
Non-Solar hr	194744	22:47	236

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: 27-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	440	866	0.0	0.7	-0.7
4	765 kV	SASARAM-FATEHPUR	1	43	650	0.0	4.5	-4.5
5	765 kV	GAYA-BALIA	1	0	606	0.0	6.4	-6.4
6	400 kV	PUSAULI-VARANASI	1	20	87	0.0	1.0	-1.0
7	400 kV	PUSAULI -ALLAHABAD	1	0	132	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	45	931	0.0	10.4	-10.4
9	400 kV	PATNA-BALIA	2	0	673	0.0	6.9	-6.9
10	400 kV	NAUBATPUR-BALIA	2	0	745	0.0	6.9	-6.9
11	400 kV	BIHARSHARIFF-BALIA	2	121	367	0.0	3.0	-3.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	599	0.0	6.4	-6.4
13	400 kV	BIHARSHARIFF-VARANASI	2	155	451	0.0	2.2	-2.2
14	220 kV	SAHUPURI-KARAMNANA	1	0	185	0.0	2.6	-2.6
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.2	0.0	0.2
17	132 kV	KARMANASA-SAHUPURI	1	0	51	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.2	54.6	-54.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	2076	0	28.0	0.0	28.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1191	38	10.0	0.0	10.0
3	765 kV	JHARSUGUDA-DURG	2	83	399	0.0	4.7	-4.7
4	400 kV	JHARSUGUDA-RAIGARH	4	41	455	0.0	5.1	-5.1
5	400 kV	RANCHI-SIPAT	2	273	73	1.7	0.0	1.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	151	0	3.2	0.0	3.2
ER-WR						42.8	10.9	31.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	550	0.0	12.3	-12.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1643	0.0	39.7	-39.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	3056	0.0	52.9	-52.9
4	400 kV	TALCHER-I/C	2	245	645	0.0	6.5	-6.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	104.8	-104.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	219	67	2.3	0.1	2.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	659	212	6.0	0.0	6.0
3	220 kV	ALIPURDUAR-SALAKATI	2	125	18	1.3	0.0	1.3
ER-NER						9.6	0.1	9.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	679	0	13.0	0.0	13.0
NER-NR						13.0	0.0	13.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2000	0.0	24.3	-24.3
2	HVDC	VINDHYACHAL B/B	-	364	0	9.7	0.0	9.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	593	0.0	11.2	-11.2
4	765 kV	GWALIOR-AGRA	2	0	1857	0.0	30.6	-30.6
5	765 kV	GWALIOR-PHAGI	2	1413	1131	10.0	6.2	3.8
6	765 kV	JABALPUR-ORAI	2	23	766	0.0	15.4	-15.4
7	765 kV	GWALIOR-ORAI	1	933	0	10.8	0.0	10.8
8	765 kV	SATNA-ORAI	1	0	986	0.0	16.1	-16.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1198	323	12.1	0.7	11.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	2543	0.0	46.4	-46.4
11	400 kV	ZERDA-KANKROLI	1	270	24	3.8	0.0	3.8
12	400 kV	ZERDA -BHINMAL	1	768	0	8.9	0.0	8.9
13	400 kV	VINDHYACHAL -RIHAND	1	955	0	19.1	0.0	19.1
14	400 kV	RAPP-SHUJALPUR	2	431	201	5.0	0.6	4.3
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
17	220 kV	MEHGAON-AURAIYA	1	43	29	0.2	0.1	0.1
18	220 kV	MALANPUR-AURAIYA	1	27	30	0.2	0.1	0.1
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						79.7	153.4	-73.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1007	0.0	19.6	-19.6
2	HVDC	RAIGARH-PUGALUR	2	0	4006	0.0	68.1	-68.1
3	765 kV	SOLAPUR-RAICHUR	2	1181	1650	3.4	10.0	-6.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2438	0.0	35.2	-35.2
5	400 kV	KOLHAPUR-KUDGI	2	1251	0	21.8	0.0	21.8
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	1	133	2.5	0.0	2.5
WR-SR						27.7	133.0	-105.3

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)	401	115	215	5.16	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	614	321	410	9.84	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-140	52	-80	-1.91	
	NER	132kV GELEPHU-SALAKATI	23	0	1	0.02	
	NER	132kV MOTANGA-RANGIA	55	13	36	0.86	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-61	0	-31	-0.74	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-257	31	-108	-2.59	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-932	-921	-923	-22.16	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-786	-383	-525	-12.61	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-157	0	-114	-2.74	