



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: 1st 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, 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 31.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-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 31st May 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 01-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)	54832	61074	47138	26131	3424	192599
Peak Shortage (MW)	0	0	0	214	24	238
Energy Met (MU)	1186	1443	1135	610	67	4441
Hydro Gen (MU)	251	52	57	61	11	431
Wind Gen (MU)	14	106	53	-	-	172
Solar Gen (MU)*	136.68	68.20	123.51	2.85	1.37	333
Energy Shortage (MU)	0.11	0.95	0.00	6.26	1.39	8.71
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54939	66745	54138	27768	3452	201708
Time Of Maximum Demand Met	19:52	15:12	14:56	23:38	19:55	14:59

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	0.045	0.00	0.00	2.50	2.50	63.11	34.39

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	6567	0	139.5	57.2	-2.0	237	0.00
	Haryana	6628	0	141.9	96.2	-7.3	197	0.00
	Rajasthan	10113	0	219.7	43.4	-5.1	385	0.00
	Delhi	4462	0	92.4	89.1	-2.9	53	0.00
	UP	22869	0	457.4	199.2	-0.1	252	0.00
	Uttarakhand	2076	0	46.5	25.8	-1.1	82	0.00
	HP	1434	12	27.3	0.1	0.3	191	0.11
	J&K(UT) & Ladakh(UT)	2659	0	53.0	29.2	0.8	280	0.00
	Chandigarh	219	0	4.4	4.7	-0.3	19	0.00
Railways_NR ISTS	180	0	3.9	3.2	0.7	43	0.00	
WR	Chhattisgarh	4845	0	109.7	48.7	-1.4	175	0.00
	Gujarat	19981	0	422.0	211.1	-0.1	1043	0.00
	MP	11279	0	239.3	128.0	-3.6	333	0.00
	Maharashtra	27694	0	600.3	225.2	-0.2	1073	0.95
	Goa	748	0	16.1	16.3	-0.2	54	0.00
	DNHDDPDCL	1226	0	25.0	28.7	-3.7	70	0.00
	AMNSIL	841	0	18.3	8.9	-0.1	265	0.00
	BALCO	520	0	12.4	12.5	-0.1	6	0.00
	Andhra Pradesh	10743	0	222.7	71.6	-0.4	713	0.00
SR	Telangana	9315	0	191.4	63.7	1.1	544	0.00
	Karnataka	12609	0	243.1	77.4	-2.1	866	0.00
	Kerala	4449	0	93.0	68.3	1.0	397	0.00
	Tamil Nadu	18427	0	374.6	215.3	-0.3	521	0.00
	Puducherry	483	0	10.0	10.1	-0.8	53	0.00
ER	Bihar	6334	0	137.7	126.3	-0.4	323	4.49
	DVC	3242	0	75.7	-38.8	1.5	322	0.00
	Jharkhand	1779	0	36.4	29.7	-1.1	229	1.77
	Odisha	6199	0	131.5	59.8	-2.1	309	0.00
	West Bengal	10902	0	227.1	113.4	-4.2	27	0.00
	Sikkim	98	0	2.0	1.5	0.5	47	0.00
	Railways_ER ISTS	13	0	0.1	0.2	-0.1	0	0.00
NER	Arunachal Pradesh	172	0	2.9	2.4	0.3	50	0.00
	Assam	2287	0	45.2	38.2	0.3	195	0.00
	Manipur	171	0	2.4	2.5	-0.1	22	0.00
	Meghalaya	341	24	5.2	3.7	0.0	64	1.39
	Mizoram	109	0	1.9	1.8	-0.2	13	0.00
	Nagaland	157	0	2.6	2.5	0.0	45	0.00
	Tripura	342	0	6.6	6.2	0.6	100	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	3.2	-6.8	-25.0	-21.2
Day Peak (MW)	498.6	-461.3	-1103.0	-1001.9

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	116.7	-228.6	128.2	-32.3	16.2	0.2
Actual(MU)	55.9	-212.8	154.7	-23.7	20.6	-5.3
O/D/U/D(MU)	-60.8	15.8	26.5	8.6	4.4	-5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3537	10251	5578	930	434	20730	46
State Sector	6770	13099	2578	2250	241	24938	54
Total	10307	23350	8156	3180	675	45668	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	716	1481	708	653	14	3571	74
Lignite	18	16	44	0	0	78	2
Hydro	251	52	57	61	11	431	9
Nuclear	30	36	46	0	0	112	2
Gas, Naptha & Diesel	31	23	6	0	28	88	2
RES (Wind, Solar, Biomass & Others)	159	175	197	3	1	537	11
Total	1206	1783	1058	717	54	4817	100

Share of RES in total generation (%)	13.22	9.82	18.65	0.48	2.56	11.14
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.53	14.77	28.32	8.97	22.31	22.41

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.053

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	201708	14:59	65
Non-Solar hr	195968	22:54	1084

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: 01-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	2.4	-2.4	
3	765 kV	GAYA-VARANASI	2	1285	0	13.6	0.0	13.6	
4	765 kV	SASARAM-FATEHPUR	1	446	67	2.5	0.0	2.5	
5	765 kV	GAYA-BALIA	1	0	532	0.0	8.5	-8.5	
6	400 kV	PUSAULI-VARANASI	1	0	146	0.0	1.7	-1.7	
7	400 kV	PUSAULI -ALLAHABAD	1	40	68	0.0	0.6	-0.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	505	345	0.0	0.1	-0.1	
9	400 kV	PATNA-BALIA	2	153	384	0.0	4.1	-4.1	
10	400 kV	NAUBATPUR-BALIA	2	219	392	0.0	4.1	-4.1	
11	400 kV	BIHARSHARIFF-BALIA	2	358	125	1.5	0.0	1.5	
12	400 kV	MOTIHARI-GORAKHPUR	2	241	258	0.0	1.4	-1.4	
13	400 kV	BIHARSHARIFF-VARANASI	2	507	17	4.0	0.0	4.0	
14	220 kV	SAHUPURI-KARAMNANA	1	0	170	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	0.8	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	22.5	25.3	-2.8
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1572	0	20.6	0.0	20.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1899	0	26.9	0.0	26.9	
3	765 kV	JHARSUGUDA-DURG	2	0	422	0.0	7.1	-7.1	
4	400 kV	JHARSUGUDA-RAIGARH	4	146	343	0.0	3.7	-3.7	
5	400 kV	RANCHI-SIPAT	2	435	0	4.5	0.0	4.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	60	0.0	1.8	-1.8	
7	220 kV	BUDHIPADAR-KORBA	2	187	0	3.5	0.0	3.5	
						ER-WR	55.6	12.5	43.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	541	0.0	12.7	-12.7	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1609	0.0	38.5	-38.5	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2840	0.0	48.5	-48.5	
4	400 kV	TALCHER-I/C	2	315	109	5.8	0.0	5.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	99.7	-99.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	209	0.0	2.6	-2.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	491	0.0	5.9	-5.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	14	105	0.0	1.2	-1.2	
						ER-NER	0.0	9.7	-9.7
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	679	0	9.3	0.0	9.3	
						NER-NR	9.3	0.0	9.3
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3020	0.0	37.2	-37.2	
2	HVDC	VINDHYACHAL B/B	-	451	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	978	0.0	15.5	-15.5	
4	765 kV	GWALIOR-AGRA	2	0	1359	0.0	20.7	-20.7	
5	765 kV	GWALIOR-PHAGI	2	1272	880	0.0	3.8	-3.8	
6	765 kV	JABALPUR-ORAI	2	143	634	0.0	12.4	-12.4	
7	765 kV	GWALIOR-ORAI	1	724	0	11.4	0.0	11.4	
8	765 kV	SATNA-ORAI	1	0	854	0.0	16.3	-16.3	
9	765 kV	BANASKANTHA-CHITORGARH	2	2097	0	31.4	0.0	31.4	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3343	0.0	60.9	-60.9	
11	400 kV	ZERDA-KANKROLI	1	374	0	6.0	0.0	6.0	
12	400 kV	ZERDA -BHINMAL	1	682	0	9.7	0.0	9.7	
13	400 kV	VINDHYACHAL -RIHAND	1	956	0	21.8	0.0	21.8	
14	400 kV	RAPP-SHUALPUR	2	734	94	6.6	0.0	6.6	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7	
17	220 kV	MEHGAON-AURAIYA	1	89	0	1.1	0.0	1.1	
18	220 kV	MALANPUR-AURAIYA	1	71	5	0.8	0.0	0.8	
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	101.0	168.4	-67.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1005	0.0	24.0	-24.0	
2	HVDC	RAIGARH-PUGALUR	2	0	3006	0.0	68.9	-68.9	
3	765 kV	SOLAPUR-RAICHUR	2	766	1376	0.0	4.4	-4.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	2202	0.0	29.1	-29.1	
5	400 kV	KOLHAPUR-KUDGI	2	1277	0	21.5	0.0	21.5	
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	134	2.6	0.0	2.6	
						WR-SR	24.2	126.4	-102.2

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	287	35	163	3.92
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	181	115	151	3.61
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-100	23	-235	-5.64
	NER	132kV GELEPHU-SALAKATI	16	5	8	0.20
	NER	132kV MOTANGA-RANGIA	57	37	47	1.12
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-71	0	-55	-1.32
	ER	NEPAL IMPORT (FROM BIHAR)	-86	-19	-45	-1.07
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-304	-14	-182	-4.36
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-928	-777	-892	-21.40
	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	-175	0	-149	-3.58