



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: 6th 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 05.06.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-जून-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 5TH June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 06-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)	61147	61419	48358	26969	3393	201286
Peak Shortage (MW)	160	0	0	136	76	372
Energy Met (MU)	1352	1423	1167	616	65	4622
Hydro Gen (MU)	225	39	61	63	8	397
Wind Gen (MU)	11	140	172	-	-	324
Solar Gen (MU)*	129.86	66.73	128.05	2.91	1.26	329
Energy Shortage (MU)	2.39	0.51	0.00	1.60	2.17	6.67
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62895	67041	56144	28776	3488	213982
Time Of Maximum Demand Met	22:53	15:20	14:58	23:23	19:27	15:20

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	0.047	0.00	0.03	3.60	3.63	61.06	35.31

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	8210	0	178.9	72.6	0.4	242	0.00
	Haryana	9033	0	177.6	127.6	-1.2	243	0.00
	Rajasthan	12207	0	253.2	56.5	-2.5	253	0.00
	Delhi	5493	0	110.0	105.4	-1.7	65	0.00
	UP	24182	0	494.5	226.0	-1.8	272	0.22
	Uttarakhand	2182	0	47.4	26.9	-0.3	170	0.12
	HP	1460	0	29.1	4.2	0.7	167	0.00
	J&K(UT) & Ladakh(UT)	2308	190	51.7	27.5	1.1	265	2.05
	Chandigarh	276	0	5.5	5.5	0.0	53	0.00
Railways_NR ISTS	190	0	4.0	3.2	0.8	47	0.00	
WR	Chhattisgarh	4578	0	104.6	50.9	1.6	374	0.00
	Gujarat	21018	0	430.8	200.6	-0.9	1108	0.00
	MP	11481	0	251.7	136.9	-2.4	491	0.00
	Maharashtra	26446	0	559.5	215.3	0.2	1019	0.51
	Goa	764	0	16.0	15.5	0.1	116	0.00
	DNHDDPDCL	1262	0	28.9	29.1	-0.2	30	0.00
	AMNSIL	850	0	18.8	9.8	0.2	282	0.00
	BALCO	517	0	12.4	12.5	-0.1	1	0.00
SR	Andhra Pradesh	11709	0	235.0	63.9	-1.1	818	0.00
	Telangana	9833	0	193.3	82.1	0.7	578	0.00
	Karnataka	12994	0	257.9	75.6	0.1	762	0.00
	Kerala	4413	0	92.1	66.2	0.8	389	0.00
	Tamil Nadu	18084	0	378.2	166.6	-5.2	294	0.00
	Puducherry	468	0	10.0	10.0	-0.6	37	0.00
ER	Bihar	6839	0	144.2	135.6	-1.1	197	0.27
	DVC	3503	0	75.7	-48.0	1.2	255	0.00
	Jharkhand	1779	0	36.6	34.1	-2.2	308	1.33
	Odisha	6543	0	124.5	51.5	-1.9	447	0.00
	West Bengal	11431	0	232.4	125.5	-3.2	203	0.00
	Sikkim	98	0	2.0	1.3	0.7	36	0.00
	Railways_ER ISTS	13	0	0.2	0.3	0.0	0	0.00
NER	Arunachal Pradesh	172	0	2.9	2.4	0.5	73	0.00
	Assam	2281	0	43.2	36.3	0.8	457	0.37
	Manipur	176	0	2.6	2.6	0.1	22	0.00
	Meghalaya	322	54	4.7	3.4	0.1	85	1.80
	Mizoram	112	0	1.8	1.8	-0.3	10	0.00
	Nagaland	163	0	2.8	2.9	-0.1	27	0.00
	Tripura	356	0	6.6	6.4	0.8	122	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	5.8	-7.1	-25.3	-17.9
Day Peak (MW)	438.8	-554.8	-1093.0	-821.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	217.4	-255.0	72.2	-55.1	20.4	0.0
Actual(MU)	199.2	-249.5	80.8	-59.4	23.2	-5.6
O/D/U/D(MU)	-18.2	5.6	8.5	-4.3	2.8	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	1445	7272	6118	270	830	15935	37
State Sector	5910	14155	4369	2570	316	27319	63
Total	7355	21426	10487	2840	1146	43254	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	791	1478	670	691	16	3646	73
Lignite	19	19	54	0	0	91	2
Hydro	225	39	61	63	8	397	8
Nuclear	30	32	46	0	0	107	2
Gas, Naptha & Diesel	20	26	6	0	23	75	1
RES (Wind, Solar, Biomass & Others)	150	208	320	3	1	683	14
Total	1234	1802	1157	758	49	5000	100

Share of RES in total generation (%)	12.15	11.55	27.67	0.46	2.58	13.66
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.81	15.49	36.91	8.79	19.75	23.75

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.045

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	213982	15:20	405
Non-Solar hr	207492	22:53	951

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: 06-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	588	35	6.2	0.0	6.2
4	765 kV	SASARAM-FATEHPUR	1	4	278	0.0	2.5	-2.5
5	765 kV	GAYA-BALIA	1	0	716	0.0	12.7	-12.7
6	400 kV	PUSAULI-VARANASI	1	0	77	0.0	1.1	-1.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	92	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	221	406	0.0	3.4	-3.4
9	400 kV	PATNA-BALIA	2	0	471	0.0	7.6	-7.6
10	400 kV	NAUBATPUR-BALIA	2	0	484	0.0	7.7	-7.7
11	400 kV	BIHARSHARIFF-BALIA	2	277	145	0.9	0.0	0.9
12	400 kV	MOTTHARI-GORAKHPUR	2	106	337	0.0	3.7	-3.7
13	400 kV	BIHARSHARIFF-VARANASI	2	205	65	1.0	0.0	1.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	180	0.0	3.1	-3.1
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						8.9	45.6	-36.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1318	49	12.9	0.0	12.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1827	0	32.8	0.0	32.8
3	765 kV	JHARSUGUDA-DURG	2	0	376	0.0	4.7	-4.7
4	400 kV	JHARSUGUDA-RAIGARH	4	34	372	0.0	4.3	-4.3
5	400 kV	RANCHI-SIPAT	2	364	0	4.8	0.0	4.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	208	0	3.0	0.0	3.0
ER-WR						53.4	10.2	43.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	541	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1502	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2342	0.0	41.2	-41.2
4	400 kV	TALCHER-I/C	2	113	170	0.0	2.9	-2.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	89.7	-89.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	239	0.0	3.0	-3.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	644	0.0	8.4	-8.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	134	0.0	1.5	-1.5
ER-NER						0.0	13.0	-13.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	384	0	8.9	0.0	8.9
NER-NR						8.9	0.0	8.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2513	0.0	59.1	-59.1
2	HVDC	VINDHYACHAL B/B	-	442	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	300	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	2232	0.0	39.9	-39.9
5	765 kV	GWALIOR-PHAGI	2	367	1199	0.6	16.1	-15.5
6	765 kV	JABALPUR-ORAI	2	0	1020	0.0	34.8	-34.8
7	765 kV	GWALIOR-ORAI	1	594	0	10.9	0.0	10.9
8	765 kV	SATNA-ORAI	1	0	1082	0.0	23.1	-23.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1363	488	14.1	1.0	13.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	3120	0.0	62.1	-62.1
11	400 kV	ZERDA-KANKROLI	1	236	60	2.9	0.1	2.9
12	400 kV	ZERDA -BHINMAL	1	470	77	4.8	0.1	4.8
13	400 kV	VINDHYACHAL -RIHAND	1	956	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	270	327	1.3	2.2	-0.9
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	75	23	0.4	0.1	0.3
18	220 kV	MALANPUR-AURAIYA	1	49	33	0.2	0.2	0.0
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						69.1	248.1	-178.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	307	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGALUR	2	0	2505	0.0	37.5	-37.5
3	765 kV	SOLAPUR-RAICHUR	2	2014	781	14.9	1.0	13.9
4	765 kV	WARDHA-NIZAMABAD	2	0	1993	0.0	26.0	-26.0
5	400 kV	KOLHAPUR-KUDGI	2	1573	0	28.3	0.0	28.3
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	129	2.5	0.0	2.5
WR-SR						45.7	71.7	-26.0

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)	258	77	169	4.06	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	149	73	114	2.73	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-130	-59	-87	-2.09	
	NER	132kV GELEPHU-SALAKATI	15	0	5	0.13	
	NER	132kV MOTANGA-RANGIA	55	29	42	1.01	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-70	0	-55	-1.31	
	ER	NEPAL IMPORT (FROM BIHAR)	-157	-17	-41	-0.97	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-328	0	-201	-4.82	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-928	-816	-901	-21.63	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-821	-667	-746	-17.90	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-165	0	-153	-3.66	