



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: 8th 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 07.06.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-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 7th June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 08-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)	63139	62684	47184	26700	3358	203065
Peak Shortage (MW)	405	0	0	225	72	702
Energy Met (MU)	1398	1491	1165	634	69	4757
Hydro Gen (MU)	229	35	62	65	9	400
Wind Gen (MU)	18	141	180	-	-	340
Solar Gen (MU)*	132.05	66.49	117.54	3.10	1.04	320
Energy Shortage (MU)	4.01	0.00	0.00	1.33	1.79	7.13
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66257	68483	56684	29277	3437	217843
Time Of Maximum Demand Met	22:29	15:34	14:52	00:10	19:21	14:47

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	0.00	0.00	1.96	1.96	68.66	29.38

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	7982	0	174.2	80.7	-6.5	80	0.00
	Haryana	9346	108	189.1	122.5	-4.5	446	0.48
	Rajasthan	13032	0	264.5	55.9	1.9	1237	0.00
	Delhi	5664	0	116.1	105.9	-2.8	183	0.00
	UP	25397	0	519.4	243.9	1.8	681	0.04
	Uttarakhand	2216	75	48.8	27.5	0.9	191	0.98
	HP	1559	0	30.4	5.8	0.3	143	0.31
	J&K(UT) & Ladakh(UT)	2286	360	46.8	26.0	-2.9	694	2.20
	Chandigarh	266	0	5.5	5.4	0.1	26	0.00
Railways_NR ISTS	176	0	3.9	3.2	0.6	54	0.00	
WR	Chhattisgarh	4779	0	107.2	52.6	-4.0	172	0.00
	Gujarat	21094	0	450.2	195.1	-2.5	844	0.00
	MP	11337	0	253.8	148.7	-7.8	309	0.00
	Maharashtra	27870	0	604.1	221.0	0.2	1483	0.00
	Goa	776	0	16.4	15.5	0.6	176	0.00
	DNHDDPDCL	1286	0	29.8	30.4	-0.6	34	0.00
	AMNSIL	799	0	17.0	10.0	0.2	250	0.00
	BALCO	518	0	12.3	12.5	-0.2	12	0.00
SR	Andhra Pradesh	12448	0	245.6	65.0	0.3	624	0.00
	Telangana	10181	0	204.5	84.9	1.2	989	0.00
	Karnataka	13398	0	263.3	74.9	2.6	770	0.00
	Kerala	3936	0	87.4	65.0	0.7	513	0.00
	Tamil Nadu	17553	0	353.9	151.9	-4.9	357	0.00
	Puducherry	455	0	10.1	9.8	-0.3	31	0.00
ER	Bihar	6759	0	146.2	135.2	-0.1	282	1.11
	DVC	3446	0	76.6	-46.5	0.1	307	0.00
	Jharkhand	1814	0	37.3	34.5	-2.2	398	0.23
	Odisha	6107	0	133.8	55.5	0.7	621	0.00
	West Bengal	11292	0	238.4	116.4	-2.4	666	0.00
	Sikkim	96	0	1.4	1.4	0.1	34	0.00
	Railways_ER ISTS	10	0	0.1	0.3	-0.2	6	0.00
NER	Arunachal Pradesh	169	0	3.1	2.4	0.6	68	0.00
	Assam	2278	0	47.6	37.7	3.7	201	0.33
	Manipur	133	0	2.1	2.4	-0.3	23	0.00
	Meghalaya	301	39	4.7	2.8	0.7	64	1.46
	Mizoram	119	0	1.9	1.8	-0.2	8	0.00
	Nagaland	155	0	3.0	2.7	-0.1	18	0.00
	Tripura	370	0	7.0	6.4	1.0	72	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	3.5	-8.5	-25.5	-10.8
Day Peak (MW)	312.2	-416.7	-1097.0	-819.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	235.4	-248.3	49.3	-57.3	20.8	0.0
Actual(MU)	205.3	-256.0	70.0	-50.6	25.8	-5.6
O/D/U/D(MU)	-30.1	-7.7	20.7	6.6	4.9	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2166	6305	5518	470	797	15256	41
State Sector	4735	10236	3718	2924	336	21948	59
Total	6901	16541	9236	3394	1133	37204	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	798	1543	690	697	18	3746	73
Lignite	20	21	50	0	0	91	2
Hydro	229	35	62	65	9	400	8
Nuclear	30	32	46	0	0	107	2
Gas, Naptha & Diesel	42	44	7	0	23	115	2
RES (Wind, Solar, Biomass & Others)	158	209	317	4	1	688	13
Total	1277	1882	1170	766	51	5147	100

Share of RES in total generation (%)	12.36	11.09	27.06	0.46	2.04	13.36
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.65	14.60	36.23	8.99	20.20	23.22

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.043

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	217843	14:47	337
Non-Solar hr	211108	22:41	258

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: 08-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	98	0.0	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	562	204	4.7	0.0	4.7
4	765 kV	SASARAM-FATEHPUR	1	188	244	0.0	1.7	-1.7
5	765 kV	GAYA-BALIA	1	0	698	0.0	11.2	-11.2
6	400 kV	PUSAULI-VARANASI	1	0	112	0.0	1.6	-1.6
7	400 kV	PUSAULI -ALLAHABAD	1	34	92	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	290	472	0.0	1.9	-1.9
9	400 kV	PATNA-BALIA	2	0	471	0.0	6.7	-6.7
10	400 kV	NAUBATPUR-BALIA	2	0	482	0.0	6.8	-6.8
11	400 kV	BIHARSHARIFF-BALIA	2	240	174	1.1	0.0	1.1
12	400 kV	MOTTHARI-GORAKHPUR	2	80	373	0.0	4.0	-4.0
13	400 kV	BIHARSHARIFF-VARANASI	2	262	155	1.1	0.0	1.1
14	220 kV	SAHUPURI-KARAMNANA	1	0	184	0.0	2.9	-2.9
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	65	0.0	0.9	-0.9
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						7.5	40.3	-32.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1177	486	10.8	0.0	10.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1818	0	31.2	0.0	31.2
3	765 kV	JHARSUGUDA-DURG	2	0	578	0.0	6.7	-6.7
4	400 kV	JHARSUGUDA-RAIGARH	4	95	307	0.0	2.4	-2.4
5	400 kV	RANCHI-SIPAT	2	397	0	4.6	0.0	4.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	191	0	3.0	0.0	3.0
ER-WR						49.6	10.9	38.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	552	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	14	992	0.0	17.3	-17.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2564	0.0	40.4	-40.4
4	400 kV	TALCHER-I/C	2	873	200	10.5	0.0	10.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	70.1	-70.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	212	0.0	3.6	-3.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	586	0.0	9.7	-9.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	118	0.0	2.0	-2.0
ER-NER						0.0	15.3	-15.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	383	0	9.2	0.0	9.2
NER-NR						9.2	0.0	9.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5031	0.0	84.9	-84.9
2	HVDC	VINDHYACHAL B/B	-	444	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	976	0.0	8.5	-8.5
4	765 kV	GWALIOR-AGRA	2	0	2260	0.0	33.1	-33.1
5	765 kV	GWALIOR-PHAGI	2	176	1276	0.2	11.3	-11.1
6	765 kV	JABALPUR-ORAI	2	0	1101	0.0	29.3	-29.3
7	765 kV	GWALIOR-ORAI	1	592	0	10.4	0.0	10.4
8	765 kV	SATNA-ORAI	1	0	1060	0.0	20.0	-20.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1511	481	14.3	1.1	13.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	3553	0.0	69.3	-69.3
11	400 kV	ZERDA-KANKROLI	1	268	87	3.2	0.2	3.1
12	400 kV	ZERDA-BHINMAL	1	597	186	6.6	0.5	6.0
13	400 kV	VINDHYACHAL -RIHAND	1	950	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	387	473	3.0	1.8	1.2
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	112	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	85	0	1.0	0.0	1.0
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						74.1	262.1	-188.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	497	805	1.9	8.9	-7.0
2	HVDC	RAIGARH-PUGALUR	2	0	3506	0.0	38.3	-38.3
3	765 kV	SOLAPUR-RAICHUR	2	2157	1018	15.8	2.7	13.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2405	0.0	27.9	-27.9
5	400 kV	KOLHAPUR-KUDGI	2	1652	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	136	2.7	0.0	2.7
WR-SR						48.7	77.8	-29.1

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)	176	55	112	2.68	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	257	89	125	2.99	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-109	18	-41	-0.98	
	NER	132kV GELEPHU-SALAKATI	-11	-2	-7	-0.18	
	NER	132kV MOTANGA-RANGIA	-53	-4	-44	-1.05	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-66	-1.58	
	ER	NEPAL IMPORT (FROM BIHAR)	-143	-53	-94	-2.25	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-197	-78	-195	-4.67	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-927	-807	-904	-21.70	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-819	0	-451	-10.83	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-170	0	-157	-3.76	