



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: 28th 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 27.06.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-जून-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेके 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 27th June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 28-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)	66828	52258	45836	22798	3046	190766
Peak Shortage (MW)	10	0	0	293	15	318
Energy Met (MU)	1497	1239	1089	517	61	4403
Hydro Gen (MU)	396	37	36	104	25	598
Wind Gen (MU)	15	108	204	-	-	326
Solar Gen (MU)*	120.87	33.38	105.52	4.15	0.98	265
Energy Shortage (MU)	0.07	0.00	0.00	0.74	1.06	1.87
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	69215	54881	51037	23402	3085	194244
Time Of Maximum Demand Met	22:34	11:17	10:25	20:49	19:30	11:29

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	0.075	0.10	0.76	6.18	7.05	58.77	34.19

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	13826	0	291.8	184.6	-1.0	133	0.00	
	Haryana	9880	0	213.8	159.6	-0.9	243	0.00	
	Rajasthan	11863	0	260.5	83.5	-2.7	254	0.00	
	Delhi	5755	0	119.6	115.7	-1.7	239	0.00	
	UP	24311	0	470.6	242.4	-0.2	503	0.00	
	Uttarakhand	2116	0	47.5	18.6	-1.8	64	0.00	
	HP	1584	4	31.7	-9.4	-0.5	56	0.07	
	J&K(UT) & Ladakh(UT)	2479	0	51.8	26.4	-0.3	207	0.00	
	Chandigarh	308	0	6.0	6.4	-0.4	14	0.00	
	Railways_NR ISTS	194	0	4.1	3.5	0.7	47	0.00	
WR	Chhattisgarh	3780	0	85.0	39.3	-1.3	638	0.00	
	Gujarat	16561	0	367.8	193.9	-1.0	1021	0.00	
	MP	9635	0	201.1	91.0	-2.7	349	0.00	
	Maharashtra	23510	0	512.6	172.1	-3.7	802	0.00	
	Goa	642	0	13.7	13.5	-0.3	54	0.00	
	DNHDDPDCL	1264	0	28.7	29.1	-0.4	79	0.00	
	AMNSIL	821	0	17.9	10.7	0.0	283	0.00	
	BALCO	522	0	12.5	12.5	0.0	9	0.00	
	SR	Andhra Pradesh	9956	0	216.9	64.2	1.2	734	0.00
		Telangana	9204	0	186.3	81.2	0.9	987	0.00
Karnataka		12165	0	234.8	73.1	-0.4	513	0.00	
Kerala		3485	0	74.4	65.8	0.9	224	0.00	
Tamil Nadu		16807	0	366.1	155.6	-9.2	388	0.00	
Puducherry		450	0	10.4	10.1	-0.5	37	0.00	
ER	Bihar	6337	0	119.9	115.6	-3.5	350	0.74	
	DVC	3395	0	74.5	-29.7	1.5	345	0.00	
	Jharkhand	1451	0	30.7	23.6	-1.8	105	0.00	
	Odisha	5097	0	106.3	38.6	-1.2	423	0.00	
	West Bengal	7974	0	184.1	57.0	-1.3	205	0.00	
	Sikkim	86	0	1.3	1.4	-0.1	8	0.00	
	Railways_ER ISTS	20	0	0.2	0.2	-0.1	0	0.00	
NER	Arunachal Pradesh	156	0	2.9	2.9	-0.1	20	0.00	
	Assam	2069	0	40.5	33.4	0.1	151	0.00	
	Manipur	169	0	2.4	2.5	-0.1	15	0.00	
	Meghalaya	329	15	5.4	2.2	-0.2	54	1.06	
	Mizoram	117	0	1.7	1.7	-0.2	37	0.00	
	Nagaland	159	0	2.8	2.6	-0.2	17	0.00	
	Tripura	275	0	5.2	4.6	0.3	63	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	21.0	4.2	-25.5	-19.9
Day Peak (MW)	1117.0	229.1	-1100.0	-1105.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	312.4	-222.1	47.0	-140.8	3.4	0.0
Actual(MU)	281.4	-211.7	73.0	-152.0	5.5	-3.7
O/D/U/D(MU)	-31.0	10.4	25.9	-11.2	2.1	-3.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3300	11111	5218	800	818	21247	40
State Sector	7935	14600	5848	2660	241	31284	60
Total	11235	25711	11066	3460	1059	52531	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	687	1327	612	621	13	3259	69
Lignite	29	11	57	0	0	97	2
Hydro	396	37	36	104	25	598	13
Nuclear	29	47	48	0	0	125	3
Gas, Naptha & Diesel	16	10	5	0	23	54	1
RES (Wind, Solar, Biomass & Others)	142	142	330	6	1	621	13
Total	1299	1574	1088	731	62	4754	100

Share of RES in total generation (%)	10.95	9.03	30.31	0.80	1.59	13.06
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.66	14.35	38.04	15.02	42.59	28.25

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
Based on State Max Demands	1.074

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	194244	11:29	72.2
Non-Solar hr	192908	22:16	14

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: 28-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	2001	0.0	27.2	-27.2
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	233	385	0.0	3.0	-3.0
4	765 kV	SASARAM-FATEHPUR	1	22	403	0.0	4.6	-4.6
5	765 kV	GAYA-BALIA	1	0	718	0.0	11.6	-11.6
6	400 kV	PUSAULI-VARANASI	1	0	88	0.0	1.3	-1.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	82	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	824	0.0	13.3	-13.3
9	400 kV	PATNA-BALIA	2	0	651	0.0	11.0	-11.0
10	400 kV	NAUBATPUR-BALIA	2	0	641	0.0	9.3	-9.3
11	400 kV	BIHARSHARIFF-BALIA	2	51	283	0.0	3.4	-3.4
12	400 kV	MOTTHARI-GORAKHPUR	2	0	527	0.0	9.3	-9.3
13	400 kV	BIHARSHARIFF-VARANASI	2	115	270	0.0	2.7	-2.7
14	220 kV	SAHUPURI-KARAMNANA	1	0	135	0.0	0.0	0.0
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.6	0.0	0.6
17	132 kV	KARMANASA-SAHUPURI	1	0	57	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.6	100.1	-99.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	905	165	10.4	0.0	10.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1142	749	9.9	0.0	9.9
3	765 kV	JHARSUGUDA-DURG	2	43	404	0.0	4.4	-4.4
4	400 kV	JHARSUGUDA-RAIGARH	4	238	235	0.9	0.0	0.9
5	400 kV	RANCHI-SIPAT	2	314	232	2.1	0.0	2.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	118	0	2.1	0.0	2.1
ER-WR						25.3	5.6	19.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	234	0.0	5.1	-5.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1979	0.0	37.5	-37.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2574	0.0	45.5	-45.5
4	400 kV	TALCHER-I/C	2	213	874	0.0	6.2	-6.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	88.1	-88.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	522	0.0	8.8	-8.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	465	0.0	6.5	-6.5
3	220 kV	ALIPURDUAR-SALAKATI	2	0	102	0.0	1.6	-1.6
ER-NER						0.0	16.9	-16.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	12.1	-12.1
NER-NR						0.0	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	6036	0.0	101.7	-101.7
2	HVDC	VINDHYACHAL B/B	-	443	0	11.7	0.0	11.7
3	HVDC	MUNDRA-MOHINDERGARH	2	315	0	3.3	0.0	3.3
4	765 kV	GWALIOR-AGRA	2	66	2069	0.0	26.6	-26.6
5	765 kV	GWALIOR-PHAGI	2	0	1418	0.0	22.3	-22.3
6	765 kV	JABALPUR-ORAI	2	0	892	0.0	21.9	-21.9
7	765 kV	GWALIOR-ORAI	1	737	0	13.3	0.0	13.3
8	765 kV	SATNA-ORAI	1	0	1028	0.0	19.1	-19.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1403	35	17.7	0.0	17.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	3249	0.0	55.6	-55.6
11	400 kV	ZERDA-KANKROLI	1	239	0	3.3	0.0	3.3
12	400 kV	ZERDA-BHINMAL	1	548	9	6.4	0.0	6.4
13	400 kV	VINDHYACHAL -RIHAND	1	951	0	20.7	0.0	20.7
14	400 kV	RAPP-SHUJALPUR	2	226	474	0.9	3.6	-2.6
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.1	-2.1
17	220 kV	MEHGAON-AURAIYA	1	74	4	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	57	15	0.3	0.1	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						78.2	252.8	-174.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	994	0	15.1	0.0	15.1
2	HVDC	RAIGARH-PUGALUR	2	0	3507	0.0	29.1	-29.1
3	765 kV	SOLAPUR-RAICHUR	2	1546	1043	10.8	4.9	5.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2324	0.0	35.6	-35.6
5	400 kV	KOLHAPUR-KUDGI	2	1431	0	24.2	0.0	24.2
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	117	2.2	0.0	2.2
WR-SR						52.3	69.6	-17.3

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)	0	0	0	9.02	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	0	0	0	10.35	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	0.73	
	NER	132kV GELEPHU-SALAKATI	27	7	16	0.38	
	NER	132kV MOTANGA-RANGIA	29	14	20	0.49	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-32	-0.77	
	ER	NEPAL IMPORT (FROM BIHAR)	-52	-14	-28	-0.67	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	353	114	236	5.66	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-937	-788	-925	-22.20	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1105	-376	-828	-19.87	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-163	0	-137	-3.28	