



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: 5th 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 04.06.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 4TH June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 05-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)	56141	54626	42722	25633	3214	182336
Peak Shortage (MW)	0	0	0	0	37	37
Energy Met (MU)	1223	1340	1111	600	61	4335
Hydro Gen (MU)	226	33	61	59	9	388
Wind Gen (MU)	25	139	155	-	-	319
Solar Gen (MU)*	138.08	59.34	84.01	3.10	1.21	286
Energy Shortage (MU)	0.96	0.00	0.00	1.37	1.53	3.86
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58812	63987	50553	28132	3276	199064
Time Of Maximum Demand Met	22:42	00:01	13:42	00:15	18:55	00:00

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	0.082	0.83	2.40	10.79	14.01	65.19	20.80

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	7088	0	155.0	65.1	0.8	427	0.00
	Haryana	7715	0	150.9	112.8	-2.2	110	0.00
	Rajasthan	10292	0	214.4	18.7	-7.3	347	0.00
	Delhi	4805	0	97.6	92.9	-1.4	115	0.00
	UP	23711	0	476.3	226.7	-2.3	275	0.00
	Uttarakhand	2078	0	44.2	25.3	-0.3	212	0.16
	HP	1355	0	26.2	1.7	0.4	91	0.43
	J&K(UT) & Ladakh(UT)	2320	90	50.5	27.1	1.0	214	0.37
	Chandigarh	236	0	4.6	4.2	0.4	78	0.00
Railways NR ISTS	176	0	3.9	3.3	0.7	43	0.00	
WR	Chhattisgarh	4737	0	104.9	48.8	-0.1	194	0.00
	Gujarat	17674	0	385.6	184.8	-0.1	1669	0.00
	MP	10785	0	234.0	128.4	-5.2	957	0.00
	Maharashtra	26132	0	545.5	222.9	-3.1	1700	0.00
	Goa	708	0	15.2	14.5	0.5	66	0.00
	DNHDDPDCL	1244	0	25.7	26.3	-0.6	76	0.00
	AMNSIL	799	0	16.9	10.5	-0.9	241	0.00
	BALCO	518	0	12.4	12.5	-0.1	0	0.00
SR	Andhra Pradesh	11493	0	238.8	70.7	-1.1	1004	0.00
	Telangana	8984	0	188.1	84.2	-2.6	827	0.00
	Karnataka	11906	0	231.9	65.0	1.3	1059	0.00
	Kerala	4449	0	84.8	61.6	1.0	279	0.00
	Tamil Nadu	16173	0	356.8	160.0	-1.8	763	0.00
	Puducherry	468	0	10.6	10.0	-0.1	38	0.00
ER	Bihar	6719	0	140.5	132.9	-2.3	259	1.04
	DVC	3433	0	74.8	-44.2	0.7	277	0.00
	Jharkhand	1865	0	38.9	32.9	-2.0	111	0.33
	Odisha	6768	0	121.0	60.7	-1.1	533	0.00
	West Bengal	11307	0	222.3	116.9	-3.2	231	0.00
	Sikkim	81	0	1.9	1.2	0.7	2	0.00
Railways ER ISTS	12	0	0.3	0.3	0.0	0	0.00	
NER	Arunachal Pradesh	164	0	2.7	2.4	0.3	56	0.00
	Assam	2127	0	40.1	33.3	0.6	205	0.00
	Manipur	177	0	2.6	2.6	-0.1	21	0.00
	Meghalaya	304	37	4.8	3.7	-0.1	60	1.53
	Mizoram	110	0	1.9	1.7	-0.2	11	0.00
	Nagaland	163	0	2.9	3.0	-0.1	12	0.00
Tripura	322	0	6.1	6.1	0.6	80	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	6.7	-7.6	-25.3	-17.9
Day Peak (MW)	446.2	-712.6	-1095.0	-814.9

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	162.1	-233.4	81.5	-28.3	18.1	0.0
Actual(MU)	120.2	-237.0	105.7	-12.8	21.6	-2.4
O/D/U/D(MU)	-41.9	-3.7	24.2	15.5	3.5	-2.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3479	9742	5618	270	797	19906	41
State Sector	7405	13853	4579	2450	338	28624	59
Total	10884	23595	10197	2720	1134	48530	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	723	1394	662	634	14	3427	73
Lignite	19	17	46	0	0	81	2
Hydro	226	33	61	59	9	388	8
Nuclear	30	36	46	0	0	112	2
Gas, Naptha & Diesel	10	14	7	0	23	53	1
RES (Wind, Solar, Biomass & Others)	172	199	255	4	1	631	13
Total	1179	1693	1077	697	47	4692	100

Share of RES in total generation (%)	14.61	11.75	23.72	0.52	2.59	13.46
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.29	15.85	33.63	8.97	21.20	24.10

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.051

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	185217	12:32	77
Non-Solar hr	199064	0:00	872

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: 05-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	2.2	-2.2
3	765 kV	GAYA-VARANASI	2	1264	0	12.2	0.0	12.2
4	765 kV	SASARAM-FATEHPUR	1	441	98	3.1	0.0	3.1
5	765 kV	GAYA-BALIA	1	0	726	0.0	10.4	-10.4
6	400 kV	PUSAULI-VARANASI	1	0	143	0.0	1.6	-1.6
7	400 kV	PUSAULI-ALLAHABAD	1	36	103	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	467	438	0.0	0.5	-0.5
9	400 kV	PATNA-BALIA	2	164	447	0.0	4.2	-4.2
10	400 kV	NAUBATPUR-BALIA	2	230	458	0.0	3.9	-3.9
11	400 kV	BIHARSHARIFF-BALIA	2	436	115	3.3	0.0	3.3
12	400 kV	MOTIHARI-GORAKHPUR	2	191	379	0.0	2.5	-2.5
13	400 kV	BIHARSHARIFF-VARANASI	2	515	69	4.2	0.0	4.2
14	220 kV	SAHUPURI-KARAMNANA	1	0	163	0.0	2.7	-2.7
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	63	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0
ER-NR						23.6	28.5	-4.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	2063	79	27.2	0.0	27.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1988	0	32.7	0.0	32.7
3	765 kV	JHARSUGUDA-DURG	2	104	411	0.0	3.6	-3.6
4	400 kV	JHARSUGUDA-RAIGARH	4	254	445	0.0	2.7	-2.7
5	400 kV	RANCHI-SIPAT	2	509	0	7.3	0.0	7.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	176	0	3.7	0.0	3.7
ER-WR						70.9	7.4	63.5
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	1999	0.0	40.9	-40.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2538	0.0	49.1	-49.1
4	400 kV	TALCHER-I/C	2	1108	912	0.0	0.9	-0.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	102.4	-102.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	227	0.0	2.9	-2.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	197	606	0.0	8.3	-8.3
3	220 kV	ALIPURDUAR-SALAKATI	2	6	123	0.0	1.2	-1.2
ER-NER						0.0	12.3	-12.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	578	0	8.3	0.0	8.3
NER-NR						8.3	0.0	8.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	1506	0.0	49.3	-49.3
2	HVDC	VINDHYACHAL B/B	-	445	0	10.6	0.0	10.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	300	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	2050	0.0	33.3	-33.3
5	765 kV	GWALIOR-PHAGI	2	1301	1191	6.9	10.0	-3.2
6	765 kV	JABALPUR-ORAI	2	0	1108	0.0	28.7	-28.7
7	765 kV	GWALIOR-ORAI	1	605	301	4.9	1.3	3.5
8	765 kV	SATNA-ORAI	1	0	1030	0.0	7.6	-7.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1440	0	17.3	0.0	17.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	3515	0.0	66.9	-66.9
11	400 kV	ZERDA-KANKROLI	1	329	0	4.5	0.0	4.5
12	400 kV	ZERDA -BHINMAL	1	683	18	9.4	0.0	9.4
13	400 kV	VINDHYACHAL -RIHAND	1	965	0	21.4	0.0	21.4
14	400 kV	RAPP-SHUALPUR	2	533	317	5.3	1.1	4.2
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
17	220 kV	MEHGAON-AURAIYA	1	65	13	0.4	0.1	0.3
18	220 kV	MALANPUR-AURAIYA	1	42	27	0.2	0.2	-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						80.7	207.8	-127.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	304	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGALUR	2	0	2000	0.0	28.5	-28.5
3	765 kV	SOLAPUR-RAICHUR	2	1354	1284	6.2	7.0	-0.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2121	0.0	35.5	-35.5
5	400 kV	KOLHAPUR-KUDGI	2	1441	0	24.4	0.0	24.4
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	128	2.5	0.0	2.5
WR-SR						33.0	78.2	-45.2

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)	246	77	171	4.10	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	172	104	138	3.31	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-118	-58	-81	-1.96	
	NER	132kV GELEPHU-SALAKATI	13	2	6	0.14	
	NER	132kV MOTANGA-RANGIA	46	22	45	1.07	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-60	-1.44	
	ER	NEPAL IMPORT (FROM BIHAR)	-195	-26	-49	-1.16	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-445	7	-209	-5.01	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-915	-788	-897	-21.54	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-815	-692	-747	-17.93	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-180	0	-155	-3.72	