National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर सिस्टम ऑपरेशन कारपोरेशन 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: 24th June 2022

To,

1. कार्यकारी निदेशक, पू.क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
   Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. 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
3. 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
4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग – 793006
   Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. 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 23.06.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-जून-2022 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 23rd June 2022, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day **Date of Reporting:** **24-Jun-2022**

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)	62232	54300	42466	25236	2854	187088
Peak Shortage (MW)	96	0	0	234	76	406
Energy Met (MU)	1474	1279	983	549	56	4341
Hydro Gen (MU)	231	32	52	116	31	463
Wind Gen (MU)	15	56	142	-	-	213
Solar Gen (MU)*	109.95	44.51	102.96	5.61	1.88	265
Energy Shortage (MU)	6.12	0.00	0.00	6.24	0.77	13.13
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	67724	55269	44926	25863	2854	191684
Time Of Maximum Demand Met (From NLDC SCADA)	22:32	11:41	11:55	20:57	19:50	11:46

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	1.46	8.53	9.99	79.85	10.16

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	12274	0	270.2	146.5	-1.5	43	0.00
	Haryana	9867	208	206.0	129.4	1.2	435	0.93
	Rajasthan	11829	0	251.3	47.9	-1.3	263	2.77
	Delhi	5587	0	115.5	106.1	-2.1	146	0.00
	UP	23945	0	490.9	223.5	2.1	508	0.00
	Uttarakhand	2407	0	48.8	30.9	1.4	222	2.02
	HP	1658	0	35.0	13.5	1.9	180	0.00
	J&K(UT) & Ladakh(UT)	2148	0	50.3	27.7	-1.1	153	0.40
	Chandigarh	287	0	5.8	5.9	-0.1	15	0.00
WR	Chhattisgarh	3989	0	95.7	49.4	-0.4	190	0.00
	Gujarat	18515	0	404.8	221.4	0.0	930	0.00
	MP	9258	0	212.8	88.8	1.1	566	0.00
	Maharashtra	22739	0	509.2	168.8	6.9	883	0.00
	Goa	602	0	12.2	12.0	-0.2	30	0.00
	DNHDDPDCL	1233	0	28.5	28.6	-0.1	44	0.00
	AMNSIL	847	0	15.9	10.7	-0.6	202	0.00
SR	Andhra Pradesh	8902	0	189.7	67.6	0.4	847	0.00
	Telangana	8678	0	174.6	57.5	1.0	462	0.00
	Karnataka	10379	0	197.2	62.6	-2.6	501	0.00
	Kerala	3654	0	75.0	54.6	0.2	217	0.00
	Tamil Nadu	15467	0	337.1	157.1	-1.7	927	0.00
	Puducherry	442	0	9.8	9.3	-0.2	65	0.00
ER	Bihar	6330	173	125.7	114.8	-0.4	257	3.30
	DVC	3611	0	77.0	-47.9	1.2	423	0.00
	Jharkhand	1466	0	31.1	22.8	-0.6	184	2.94
	Odisha	6028	0	132.4	73.2	-0.1	258	0.00
	West Bengal	8815	0	181.2	52.2	1.0	485	0.00
	Sikkim	116	0	1.6	1.6	0.0	21	0.00
NER	Arunachal Pradesh	131	0	2.5	2.3	0.0	37	0.00
	Assam	1870	0	35.4	27.8	-0.6	98	0.00
	Manipur	185	0	2.4	2.4	0.1	57	0.00
	Meghalaya	312	49	5.2	0.1	0.4	101	0.77
	Mizoram	97	0	1.7	1.5	-0.2	0	0.00
	Nagaland	151	0	2.8	2.4	-0.1	23	0.00
	Tripura	265	0	6.1	4.3	0.1	72	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	34.9	4.3	-25.8
Day Peak (MW)	1791.0	237.1	-1096.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	276.1	-158.0	34.0	-142.9	-9.2	0.0
Actual(MU)	282.9	-154.2	10.9	-132.5	-12.0	-4.8
O/D/U/D(MU)	6.8	3.8	-23.1	10.4	-2.7	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3802	14176	6608	1895	822	27303	47
State Sector	6435	13144	8995	2160	160	30894	53
Total	10237	27320	15603	4055	982	58198	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	804	1261	530	606	18	3219	71
Lignite	31	16	66	0	0	113	3
Hydro	233	32	52	116	31	464	10
Nuclear	24	33	63	0	0	119	3
Gas, Naptha & Diesel	21	4	8	0	24	57	1
RES (Wind, Solar, Biomass & Others)	138	101	290	6	2	537	12
Total	1252	1446	1010	728	75	4511	100

Share of RES in total generation (%)	11.05	6.99	28.75	0.77	2.51	11.91
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.53	11.46	40.15	16.75	44.30	24.85

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.065

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

***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: 24-Jun-2022

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	1201	0.0	29.4	-29.4
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	100	495	0.0	4.5	-4.5
4	765 kV	SASARAM-FATEHPUR	1	0	576	0.0	9.5	-9.5
5	765 kV	GAYA-BALIA	1	0	733	0.0	11.3	-11.3
6	400 kV	PUSAULI-VARANASI	1	41	30	0.3	0.0	0.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	99	0.0	1.4	-1.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	901	0.0	17.3	-17.3
9	400 kV	PATNA-BALIA	2	0	648	0.0	13.3	-13.3
10	400 kV	NAUBATPUR-BALIA	2	0	688	0.0	13.9	-13.9
11	400 kV	BIHARSHARIFF-BALIA	2	0	592	0.0	8.5	-8.5
12	400 kV	MOTIHARI-GORAKHPUR	2	0	481	0.0	9.5	-9.5
13	400 kV	BIHARSHARIFF-VARANASI	2	0	306	0.0	4.4	-4.4
14	220 kV	SAHUPURI-KARAMNASA	1	0	158	0.0	3.1	-3.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	50	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.8	127.3	-126.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	25.5	0.0	25.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1048	585	10.1	0.0	10.1
3	765 kV	JHARSUGUDA-DURG	2	0	314	2.3	0.0	2.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	0.0	0.0
5	400 kV	RANCHI-SIPAT	2	278	161	2.4	0.0	2.4
6	220 kV	BUDHIPADAR-RAIGARH	1	87	35	1.0	0.0	1.0
7	220 kV	BUDHIPADAR-KORBA	2	142	28	1.5	0.0	1.5
					ER-WR	42.8	0.0	42.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	440	0.0	8.5	-8.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1977	0.0	37.9	-37.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2802	0.0	42.8	-42.8
4	400 kV	TALCHER-I/C	2	516	148	6.9	0.0	6.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	89.3	-89.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	312	0.0	3.8	-3.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	174	230	0.3	0.0	0.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	85	0.0	0.9	-0.9
					ER-NER	0.3	4.7	-4.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	729	0.0	17.6	-17.6
					NER-NR	0.0	17.6	-17.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	6	2011	0.0	29.7	-29.7
2	HVDC	VINDHYACHAL B/B	-	444	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	512	0.0	9.0	-9.0
4	765 kV	GWALIOR-AGRA	2	0	2031	0.0	32.4	-32.4
5	765 kV	GWALIOR-PHAGI	2	0	1701	0.0	27.8	-27.8
6	765 kV	JABALPUR-ORAI	2	0	999	0.0	32.5	-32.5
7	765 kV	GWALIOR-ORAI	1	537	0	10.3	0.0	10.3
8	765 kV	SATNA-ORAI	1	0	1128	0.0	23.4	-23.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1329	64	18.8	0.0	18.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	3213	0.0	59.5	-59.5
11	400 kV	ZERDA-KANKROLI	1	374	0	4.9	0.0	4.9
12	400 kV	ZERDA -BHINMAL	1	597	18	8.2	0.0	8.2
13	400 kV	VINDHYACHAL -RIHAND	1	961	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUJALPUR	2	189	599	0.6	5.2	-4.6
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
17	220 kV	MEHGAON-AURAIYA	1	113	0	0.3	0.0	0.3
18	220 kV	MALANPUR-AURAIYA	1	68	14	1.6	0.0	1.6
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	78.9	221.4	-142.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	493	11	8.9	0.0	8.9
2	HVDC	RAIGARH-PUGALUR	2	2403	602	34.7	0.0	34.7
3	765 kV	SOLAPUR-RAICHUR	2	1134	1528	4.2	9.2	-4.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2687	0.0	35.5	-35.5
5	400 kV	KOLHAPUR-KUDGI	2	1620	0	26.5	0.0	26.5
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	99	1.8	0.0	1.8
					WR-SR	76.1	44.7	31.4

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 MANGDECHU HEP 4*180MW)	570	0	512	12.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1008	784	828	19.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	184	0	155	3.7
	NER	132kV GELEPHU-SALAKATI	24	0	8	0.2
	NER	132kV MOTANGA-RANGIA	46	10	34	0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-65	-1.6
	ER	NEPAL IMPORT (FROM BIHAR)	-35	-12	-21	-0.5
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	344	192	268	6.4
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-944	-935	-938	-22.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-152	0	-138	-3.3