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: 20th 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 19.06.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-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 19th 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: 20-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)	56715	51145	38786	21426	2334	170406
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1302	1254	915	488	43	4002
Hydro Gen (MU)	265	27	34	112	35	472
Wind Gen (MU)	35	124	90	-	-	249
Solar Gen (MU)*	87.75	41.77	115.91	6.22	0.41	252
Energy Shortage (MU)	1.25	0.00	0.00	2.00	0.00	3.25
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61468	54196	40734	22237	2348	178390
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	00:10	11:37	23:26	18:52	00:01

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	0.17	1.47	4.42	6.06	73.64	20.30

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	11025	0	255.1	156.4	-0.9	256	0.00
	Haryana	7852	0	170.2	112.8	-1.4	309	0.00
	Rajasthan	10561	0	228.3	61.4	-7.2	428	0.00
	Delhi	5178	0	98.6	88.1	-1.7	125	0.00
	UP	21460	0	430.1	208.4	-0.3	710	0.00
	Uttarakhand	1917	0	42.0	23.5	0.7	157	0.00
	HP	1486	0	30.0	6.1	-0.3	171	0.43
	J&K(UT) & Ladakh(UT)	1867	0	43.3	20.0	0.0	349	0.82
	Chandigarh	223	0	4.6	4.9	-0.4	14	0.00
WR	Chhattisgarh	3752	0	85.1	45.9	-1.5	206	0.00
	Gujarat	18622	0	401.3	200.6	6.6	966	0.00
	MP	8725	0	192.1	82.8	-0.1	657	0.00
	Maharashtra	22813	0	516.6	178.0	-6.0	727	0.00
	Goa	563	0	11.7	11.2	0.1	45	0.00
	DNHDDPDCL	1195	0	27.4	27.4	0.0	54	0.00
	AMNSIL	919	0	20.1	11.0	0.1	292	0.00
SR	Andhra Pradesh	8762	0	191.4	83.2	0.1	775	0.00
	Telangana	7996	0	162.2	66.6	1.3	507	0.00
	Karnataka	8964	0	180.4	67.8	-4.6	493	0.00
	Kerala	3423	0	68.6	56.3	0.1	190	0.00
	Tamil Nadu	13455	0	303.4	159.0	-5.2	347	0.00
	Puducherry	404	0	9.3	8.9	-0.3	30	0.00
ER	Bihar	5523	0	104.1	94.2	-1.0	399	2.00
	DVC	3384	0	73.4	-37.6	-0.2	357	0.00
	Jharkhand	1323	0	27.9	20.7	-1.4	121	0.00
	Odisha	5833	0	129.4	69.2	-1.5	501	0.00
	West Bengal	7382	0	151.7	30.0	-0.1	452	0.00
	Sikkim	73	0	1.2	1.3	-0.1	20	0.00
NER	Arunachal Pradesh	123	0	2.2	2.0	0.2	29	0.00
	Assam	1515	0	25.1	17.2	0.2	204	0.00
	Manipur	179	0	2.5	2.4	0.1	13	0.00
	Meghalaya	278	0	5.4	-0.2	0.2	74	0.00
	Mizoram	94	0	1.5	1.7	-0.3	6	0.00
	Nagaland	134	0	2.4	2.0	-0.1	18	0.00
	Tripura	204	0	3.5	2.9	-0.5	37	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	36.3	4.4	-24.9
Day Peak (MW)	1925.0	249.7	-1057.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	247.0	-153.4	86.3	-158.7	-21.2	0.0
Actual(MU)	237.3	-133.0	76.7	-157.4	-25.9	-2.2
O/D/U/D(MU)	-9.7	20.4	-9.6	1.4	-4.7	-2.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3233	13686	6538	1720	822	25998	45
State Sector	7495	14019	8230	2100	210	32053	55
Total	10728	27704	14768	3820	1032	58051	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	656	1168	476	566	14	2880	69
Lignite	28	14	58	0	0	99	2
Hydro	267	27	34	112	35	474	11
Nuclear	20	33	67	0	0	120	3
Gas, Naptha & Diesel	20	4	9	0	24	57	1
RES (Wind, Solar, Biomass & Others)	138	166	250	6	0	561	13
Total	1130	1411	894	684	73	4191	100

Share of RES in total generation (%)	12.25	11.77	27.98	0.91	0.56	13.39
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.64	15.98	39.29	17.27	48.23	27.56

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.015
Based on State Max Demands	1.049

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: 20-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	1751	0.0	35.3	-35.3
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	478	633	0.0	3.7	-3.7
4	765 kV	SASARAM-FATEHPUR	1	5	427	0.0	5.6	-5.6
5	765 kV	GAYA-BALIA	1	0	564	0.0	8.6	-8.6
6	400 kV	PUSAULI-VARANASI	1	36	46	0.1	0.0	0.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	87	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1314	0.0	21.1	-21.1
9	400 kV	PATNA-BALIA	2	0	694	0.0	11.8	-11.8
10	400 kV	NAUBATPUR-BALIA	2	0	745	0.0	12.4	-12.4
11	400 kV	BIHARSHARIFF-BALIA	2	0	719	0.0	10.2	-10.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	651	0.0	10.4	-10.4
13	400 kV	BIHARSHARIFF-VARANASI	2	121	384	0.0	4.6	-4.6
14	220 kV	SAHUPURI-KARAMNASA	1	0	142	0.0	2.1	-2.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.6	128.2	-127.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	15.5	0.0	15.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	397	1056	0.0	6.5	-6.5
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	2.0	-2.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	4.9	-4.9
5	400 kV	RANCHI-SIPAT	2	165	358	0.0	2.2	-2.2
6	220 kV	BUDHIPADAR-RAIGARH	1	87	70	0.0	0.1	-0.1
7	220 kV	BUDHIPADAR-KORBA	2	194	0	2.9	0.0	2.9
					ER-WR	18.4	15.6	2.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	490	0.0	10.9	-10.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1494	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2319	0.0	41.2	-41.2
4	400 kV	TALCHER-I/C	2	413	283	8.0	0.0	8.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	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	425	334	2.8	1.6	1.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	714	113	9.1	0.0	9.1
3	220 kV	ALIPURDUAR-SALAKATI	2	100	68	0.7	0.0	0.7
					ER-NER	12.5	1.6	10.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	729	0.0	16.3	-16.3
					NER-NR	0.0	16.3	-16.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2015	0.0	31.0	-31.0
2	HVDC	VINDHYACHAL B/B	-	444	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	512	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	99	1547	0.0	18.8	-18.8
5	765 kV	GWALIOR-PHAGI	2	289	1483	0.3	20.4	-20.1
6	765 kV	JABALPUR-ORAI	2	0	746	0.0	18.0	-18.0
7	765 kV	GWALIOR-ORAI	1	575	0	8.8	0.0	8.8
8	765 kV	SATNA-ORAI	1	0	1042	0.0	20.5	-20.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1528	0	15.6	0.0	15.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2763	0.0	48.1	-48.1
11	400 kV	ZERDA-KANKROLI	1	401	0	5.5	0.0	5.5
12	400 kV	ZERDA -BHINMAL	1	746	0	9.6	0.0	9.6
13	400 kV	VINDHYACHAL -RIHAND	1	964	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	339	375	1.9	2.2	-0.3
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	102	0	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	68	10	1.2	0.0	1.2
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	77.4	173.2	-95.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	395	0	9.6	0.0	9.6
2	HVDC	RAIGARH-PUGALUR	2	0	2003	0.0	37.6	-37.6
3	765 kV	SOLAPUR-RAICHUR	2	1227	965	5.5	4.4	1.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2136	0.0	35.2	-35.2
5	400 kV	KOLHAPUR-KUDGI	2	1430	0	25.8	0.0	25.8
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	95	1.8	0.0	1.8
					WR-SR	42.8	77.1	-34.3

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 MANGDECHU HEP 4*180MW)	585	0	564	13.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1096	0	823	19.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	217	0	159	3.8
	NER	132kV GELEPHU-SALAKATI	13	1	10	0.2
	NER	132kV MOTANGA-RANGIA	33	16	25	0.6
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-80	0	-66	-1.6
	ER	NEPAL IMPORT (FROM BIHAR)	-39	0	-34	-0.8
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	369	187	282	6.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-945	-935	-937	-22.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-112	0	-101	-2.4