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: 18th 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 17.06.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th 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: 18-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)	60620	55555	43252	23186	2260	184873
Peak Shortage (MW)	200	0	0	472	0	672
Energy Met (MU)	1423	1349	1005	528	41	4346
Hydro Gen (MU)	299	34	49	97	35	513
Wind Gen (MU)	76	110	43	-	-	228
Solar Gen (MU)*	109.94	48.43	96.44	4.62	0.17	260
Energy Shortage (MU)	11.82	0.00	0.00	4.04	0.00	15.86
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	67067	59688	46647	25677	2327	191898
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	14:50	14:52	00:11	19:18	14:51

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	0.029	0.00	0.03	3.98	4.02	78.88	17.10

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	11941	0	216.0	140.2	-19.0	994	0.00
	Haryana	9980	0	193.0	129.1	-3.9	313	0.00
	Rajasthan	14655	0	295.8	79.5	-1.6	308	3.48
	Delhi	6708	0	125.5	114.2	-2.3	268	0.00
	UP	22622	1080	463.2	231.5	-1.1	491	3.21
	Uttarakhand	2240	0	48.2	27.6	0.9	298	1.12
	HP	1611	49	33.5	7.7	0.1	136	0.24
	J&K(UT) & Ladakh(UT)	1657	150	41.5	13.4	3.7	377	3.77
	Chandigarh	285	0	5.9	6.5	-0.6	8	0.00
WR	Chhattisgarh	4312	0	96.7	51.7	-1.5	265	0.00
	Gujarat	19519	0	421.7	182.7	0.1	701	0.00
	MP	9340	0	218.7	102.7	0.0	499	0.00
	Maharashtra	24574	0	552.9	173.5	-0.9	713	0.00
	Goa	634	0	13.0	12.6	-0.1	58	0.00
	DNHDDPDCL	1206	0	28.0	28.1	-0.1	47	0.00
	AMNSIL	835	0	17.9	10.7	0.9	317	0.00
SR	Andhra Pradesh	9278	0	200.8	91.5	-0.9	601	0.00
	Telangana	8677	0	172.0	67.9	0.8	1156	0.00
	Karnataka	10601	0	206.3	82.1	-1.3	646	0.00
	Kerala	3624	0	75.7	58.2	0.2	222	0.00
	Tamil Nadu	15324	0	340.7	202.9	0.3	595	0.00
	Puducherry	420	0	9.9	9.5	-0.3	32	0.00
ER	Bihar	6212	0	121.6	110.9	1.2	328	0.95
	DVC	3527	0	75.2	-42.1	-1.0	443	0.00
	Jharkhand	1361	432	28.9	21.6	-1.6	186	3.09
	Odisha	6235	0	128.0	56.5	-0.1	651	0.00
	West Bengal	8882	0	172.5	51.6	-1.6	448	0.00
	Sikkim	95	0	1.5	1.3	0.2	44	0.00
NER	Arunachal Pradesh	125	0	2.2	2.2	0.0	19	0.00
	Assam	1435	0	24.2	17.0	-0.3	71	0.00
	Manipur	175	0	2.5	2.6	-0.1	21	0.00
	Meghalaya	277	0	4.7	-0.6	0.1	98	0.00
	Mizoram	97	0	1.7	1.8	-0.2	5	0.00
	Nagaland	135	0	2.6	1.9	0.2	34	0.00
	Tripura	190	0	3.3	2.5	-0.1	24	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	35.2	5.0	-24.8
Day Peak (MW)	1964.0	275.3	-1050.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	264.7	-200.5	111.8	-153.2	-22.9	0.0
Actual(MU)	220.1	-179.8	127.6	-144.4	-27.2	-3.7
O/D/U/D(MU)	-44.6	20.7	15.8	8.8	-4.3	-3.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2601	13331	6288	1980	843	25042	45
State Sector	8465	11739	8250	2100	110	30663	55
Total	11066	25070	14538	4080	953	55706	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	689	1308	543	598	16	3154	71
Lignite	22	15	61	0	0	98	2
Hydro	299	34	49	97	35	513	11
Nuclear	19	33	67	0	0	119	3
Gas, Naptha & Diesel	31	8	10	0	23	71	2
RES (Wind, Solar, Biomass & Others)	199	159	184	5	0	546	12
Total	1258	1556	913	699	74	4501	100

Share of RES in total generation (%)	15.81	10.21	20.13	0.66	0.23	11.59
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.01	14.51	32.83	14.50	47.14	25.29

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.050
Based on State Max Demands	1.088

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: 18-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	1005	0.0	23.8	-23.8
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	181	429	0.0	2.4	-2.4
4	765 kV	SASARAM-FATEHPUR	1	0	398	0.0	6.6	-6.6
5	765 kV	GAYA-BALIA	1	0	602	0.0	9.9	-9.9
6	400 kV	PUSAULI-VARANASI	1	27	36	0.0	0.1	-0.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	88	0.0	1.7	-1.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1077	0.0	18.2	-18.2
9	400 kV	PATNA-BALIA	2	0	697	0.0	12.6	-12.6
10	400 kV	NAUBATPUR-BALIA	2	0	751	0.0	13.6	-13.6
11	400 kV	BIHARSHARIFF-BALIA	2	0	699	0.0	10.3	-10.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	548	0.0	9.4	-9.4
13	400 kV	BIHARSHARIFF-VARANASI	2	5	298	0.0	3.1	-3.1
14	220 kV	SAHUPURI-KARAMNASA	1	0	158	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	0.6	0.0	0.6
17	132 kV	KARMANASA-SAHUPURI	1	0	28	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.6	116.0	-115.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	21.4	0.0	21.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	347	523	0.0	1.8	-1.8
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.5	0.0	0.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	5.2	-5.2
5	400 kV	RANCHI-SIPAT	2	148	175	0.9	0.0	0.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	119	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	115	0	1.3	0.0	1.3
					ER-WR	24.1	8.7	15.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	490	0.0	11.0	-11.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1992	0.0	41.4	-41.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2841	0.0	53.2	-53.2
4	400 kV	TALCHER-I/C	2	266	148	3.6	0.0	3.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	105.6	-105.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	365	1	4.1	0.0	4.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	649	0	10.2	0.0	10.2
3	220 kV	ALIPURDUAR-SALAKATI	2	96	1	1.3	0.0	1.3
					ER-NER	15.7	0.0	15.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	500	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	2015	0.0	34.0	-34.0
2	HVDC	VINDHYACHAL B/B	-	442	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1215	0.0	22.3	-22.3
4	765 kV	GWALIOR-AGRA	2	263	1717	0.4	16.9	-16.5
5	765 kV	GWALIOR-PHAGI	2	262	1425	0.7	14.4	-13.7
6	765 kV	JABALPUR-ORAI	2	58	831	0.0	17.3	-17.3
7	765 kV	GWALIOR-ORAI	1	523	0	8.4	0.0	8.4
8	765 kV	SATNA-ORAI	1	0	1010	0.0	18.5	-18.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1325	260	11.7	0.0	11.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2758	0.0	47.4	-47.4
11	400 kV	ZERDA-KANKROLI	1	418	0	5.6	0.0	5.6
12	400 kV	ZERDA -BHINMAL	1	825	0	12.5	0.0	12.5
13	400 kV	VINDHYACHAL -RIHAND	1	964	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	484	326	4.5	1.1	3.4
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
17	220 kV	MEHGAON-AURAIYA	1	117	8	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	84	8	1.4	0.0	1.4
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	80.1	174.4	-94.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	398	0	9.6	0.0	9.6
2	HVDC	RAIGARH-PUGALUR	2	0	2503	0.0	33.0	-33.0
3	765 kV	SOLAPUR-RAICHUR	2	41	1891	0.0	18.9	-18.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2940	0.0	50.1	-50.1
5	400 kV	KOLHAPUR-KUDGI	2	1294	0	20.2	0.0	20.2
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	102	2.0	0.0	2.0
					WR-SR	31.7	101.9	-70.2

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 MANGDECHU HEP 4*180MW)	622	0	570	13.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1093	0	769	18.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	258	0	155	3.7
	NER	132kV GELEPHU-SALAKATI	8	-4	2	0.0
	NER	132kV MOTANGA-RANGIA	40	0	28	0.7
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-57	-1.4
	ER	NEPAL IMPORT (FROM BIHAR)	-28	0	-9	-0.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	381	153	273	6.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-946	-922	-935	-22.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-104	0	-97	-2.3