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: 19th 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 18.06.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th 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: 19-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)	59798	54686	42065	21009	2344	179902
Peak Shortage (MW)	22	0	0	48	0	70
Energy Met (MU)	1357	1330	985	504	42	4219
Hydro Gen (MU)	275	31	44	102	35	488
Wind Gen (MU)	46	112	59	-	-	216
Solar Gen (MU)*	83.04	44.46	92.71	4.36	0.20	225
Energy Shortage (MU)	5.91	0.00	0.00	0.79	0.00	6.70
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63023	57981	44350	23920	2345	185168
Time Of Maximum Demand Met (From NLDC SCADA)	22:31	14:54	15:03	00:17	19:04	14:41

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	0.060	0.00	2.95	9.93	12.88	69.11	18.01

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	11347	0	235.9	137.7	-4.4	186	0.00
	Haryana	8413	0	180.8	118.2	-2.5	512	0.00
	Rajasthan	13013	0	269.1	87.6	0.4	446	1.23
	Delhi	5325	0	108.6	97.9	-1.3	130	0.00
	UP	21853	0	438.8	208.1	-2.2	426	0.00
	Uttarakhand	2016	0	45.8	26.6	0.5	234	0.40
	HP	1544	0	31.3	7.5	-0.9	55	1.37
	J&K(UT) & Ladakh(UT)	1556	300	41.9	15.9	1.6	341	2.91
	Chandigarh	238	0	5.1	5.8	-0.7	9	0.00
WR	Chhattisgarh	3764	0	87.3	49.6	-1.1	313	0.00
	Gujarat	19271	0	422.2	192.2	6.2	725	0.00
	MP	9235	0	210.6	102.2	0.0	409	0.00
	Maharashtra	24668	0	550.7	186.9	-1.8	1213	0.00
	Goa	611	0	12.7	12.7	-0.4	24	0.00
	DNHDDPDCL	1226	0	28.5	28.2	0.3	53	0.00
	AMNSIL	849	0	18.4	11.1	-0.7	242	0.00
SR	Andhra Pradesh	8972	0	197.3	88.0	-0.7	832	0.00
	Telangana	8667	0	173.9	75.5	0.8	678	0.00
	Karnataka	10277	0	202.5	80.3	-0.7	1105	0.00
	Kerala	3613	0	75.2	59.9	-0.2	224	0.00
	Tamil Nadu	14738	0	326.3	191.0	-2.7	398	0.00
	Puducherry	428	0	9.8	9.4	-0.3	49	0.00
ER	Bihar	5993	0	110.5	101.4	0.0	423	0.79
	DVC	3255	0	75.5	-37.3	-1.1	381	0.00
	Jharkhand	1328	0	29.4	22.0	-1.2	124	0.00
	Odisha	5864	0	124.0	59.3	-1.2	316	0.00
	West Bengal	7843	0	163.5	48.1	-1.3	304	0.00
	Sikkim	94	0	1.5	1.5	-0.1	23	0.00
NER	Arunachal Pradesh	135	0	2.3	2.3	0.0	20	0.00
	Assam	1430	0	24.8	17.8	-0.2	58	0.00
	Manipur	158	0	2.3	2.4	-0.1	16	0.00
	Meghalaya	318	0	5.1	-0.3	0.0	31	0.00
	Mizoram	96	0	1.6	1.7	-0.2	12	0.00
	Nagaland	136	0	2.6	2.0	0.2	32	0.00
	Tripura	200	0	3.3	2.4	-0.1	33	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	38.4	7.7	-21.9
Day Peak (MW)	1967.0	390.6	-1055.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	250.8	-184.1	115.1	-161.0	-21.0	-0.1
Actual(MU)	229.2	-164.8	122.4	-167.9	-27.6	-8.8
O/D/U/D(MU)	-21.6	19.3	7.3	-6.9	-6.7	-8.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2869	12311	6288	1720	822	24010	42
State Sector	8470	13409	9040	2310	110	33338	58
Total	11340	25720	15328	4030	932	57349	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	697	1274	522	598	17	3108	71
Lignite	26	15	61	0	0	101	2
Hydro	275	31	44	102	35	488	11
Nuclear	20	33	67	0	0	120	3
Gas, Naptha & Diesel	21	4	10	0	23	57	1
RES (Wind, Solar, Biomass & Others)	143	156	194	4	0	497	11
Total	1183	1513	897	705	75	4370	100

Share of RES in total generation (%)	12.05	10.33	21.59	0.61	0.26	11.37
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.12	14.54	33.98	15.14	47.07	25.30

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.072

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: 19-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	1001	0.0	25.4	-25.4
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	88	560	0.0	5.8	-5.8
4	765 kV	SASARAM-FATEHPUR	1	0	474	0.0	7.6	-7.6
5	765 kV	GAYA-BALIA	1	0	602	0.0	9.6	-9.6
6	400 kV	PUSAULI-VARANASI	1	36	50	0.0	0.1	-0.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	89	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1300	0.0	23.1	-23.1
9	400 kV	PATNA-BALIA	2	0	759	0.0	13.6	-13.6
10	400 kV	NAUBATPUR-BALIA	2	0	819	0.0	15.3	-15.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	772	0.0	9.3	-9.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	652	0.0	11.3	-11.3
13	400 kV	BIHARSHARIFF-VARANASI	2	0	365	0.0	4.0	-4.0
14	220 kV	SAHUPURI-KARAMNASA	1	21	155	0.0	2.4	-2.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
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	0.4	129.6	-129.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	17.0	0.0	17.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	32697	747	0.0	5.9	-5.9
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	0.9	-0.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	6.1	-6.1
5	400 kV	RANCHI-SIPAT	2	50	259	0.0	1.3	-1.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	92	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	103	12	1.1	0.0	1.1
					ER-WR	18.2	15.6	2.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	489	0.0	11.8	-11.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1990	0.0	44.1	-44.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2705	0.0	47.2	-47.2
4	400 kV	TALCHER-I/C	2	404	160	1.0	0.0	1.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	103.1	-103.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	386	28	4.3	0.0	4.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	667	0	10.8	0.0	10.8
3	220 kV	ALIPURDUAR-SALAKATI	2	91	8	1.2	0.0	1.2
					ER-NER	16.3	0.0	16.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	504	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	2014	0.0	30.4	-30.4
2	HVDC	VINDHYACHAL B/B	-	441	0	11.3	0.0	11.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	814	0.0	15.8	-15.8
4	765 kV	GWALIOR-AGRA	2	80	1509	0.0	17.2	-17.2
5	765 kV	GWALIOR-PHAGI	2	0	1566	0.0	22.5	-22.5
6	765 kV	JABALPUR-ORAI	2	0	711	0.0	16.3	-16.3
7	765 kV	GWALIOR-ORAI	1	654	0	10.6	0.0	10.6
8	765 kV	SATNA-ORAI	1	0	1046	0.0	19.7	-19.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1267	73	11.5	0.0	11.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	2362	0.0	40.1	-40.1
11	400 kV	ZERDA-KANKROLI	1	344	0	4.0	0.0	4.0
12	400 kV	ZERDA -BHINMAL	1	671	0	8.9	0.0	8.9
13	400 kV	VINDHYACHAL -RIHAND	1	958	0	22.4	0.0	22.4
14	400 kV	RAPP-SHUJALPUR	2	327	370	1.9	2.0	-0.1
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	90	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	66	0	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	72.4	166.2	-93.8
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	2503	0.0	52.4	-52.4
3	765 kV	SOLAPUR-RAICHUR	2	539	1594	1.7	10.3	-8.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2711	0.0	42.5	-42.5
5	400 kV	KOLHAPUR-KUDGI	2	1366	0	23.6	0.0	23.6
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	103	1.8	0.0	1.8
					WR-SR	36.7	105.2	-68.5

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)	634	615	620	14.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1096	0	822	19.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	221	0	189	4.5
	NER	132kV GELEPHU-SALAKATI	31	0	26	0.6
	NER	132kV MOTANGA-RANGIA	12	0	5	0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-62	-1.5
	ER	NEPAL IMPORT (FROM BIHAR)	20	0	-4	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	448	208	385	9.3
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-941	-654	-813	-19.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-114	0	-98	-2.4