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 2021

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 23.06.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-जून-2021 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 2021, 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-2021**

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)	61556	46603	41349	21381	3045	173934
Peak Shortage (MW)	200	0	0	100	5	305
Energy Met (MU)	1460	1115	1025	460	56	4116
Hydro Gen (MU)	334	54	101	134	24	648
Wind Gen (MU)	35	113	120	-	-	268
Solar Gen (MU)*	51.79	28.30	91.36	4.71	0.23	176
Energy Shortage (MU)	5.00	0.00	0.00	0.30	0.05	5.35
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66488	47723	47455	21622	3183	179552
Time Of Maximum Demand Met (From NLDC SCADA)	22:10	15:37	09:33	20:49	19:19	12:24

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	0.026	0.00	0.67	3.15	3.82	79.84	16.34

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	12946	0	285.7	155.9	0.2	579	0.18
	Haryana	10771	0	232.0	164.8	0.5	352	0.39
	Rajasthan	11548	0	253.8	83.2	2.7	590	0.98
	Delhi	6316	0	123.7	110.1	-1.2	182	0.00
	UP	21944	0	433.3	179.2	-1.5	347	0.00
	Uttarakhand	1999	0	44.1	18.1	1.4	200	0.00
	HP	1524	0	33.1	1.2	1.0	205	0.00
	J&K(UT) & Ladakh(UT)	2301	250	48.0	23.1	0.2	394	3.45
	Chandigarh	344	0	6.6	6.4	0.3	46	0.00
WR	Chhattisgarh	3411	0	80.3	32.7	-0.4	286	0.00
	Gujarat	14533	0	320.2	115.1	2.7	625	0.00
	MP	8491	0	189.7	104.2	-0.9	518	0.00
	Maharashtra	21103	0	467.0	141.3	-2.0	673	0.00
	Goa	580	0	12.4	11.4	0.4	37	0.00
	DD	331	0	7.4	7.0	0.4	46	0.00
	DNH	800	0	18.4	18.3	0.1	73	0.00
	AMNSIL	913	0	19.9	4.9	0.2	286	0.00
SR	Andhra Pradesh	9579	0	197.3	80.1	0.0	702	0.00
	Telangana	10640	0	222.9	95.9	0.7	499	0.00
	Karnataka	10648	0	195.5	59.1	2.8	977	0.00
	Kerala	3313	0	71.2	39.4	0.2	269	0.00
	Tamil Nadu	14813	0	330.0	183.9	-2.1	824	0.00
	Puducherry	382	0	8.4	8.4	0.0	34	0.00
ER	Bihar	6000	0	113.5	103.1	1.6	345	0.00
	DVC	3135	0	67.6	-48.2	0.5	344	0.00
	Jharkhand	1528	0	27.9	20.9	-2.3	182	0.30
	Odisha	4472	0	91.8	21.8	-0.5	333	0.00
	West Bengal	7816	0	157.6	32.3	1.1	638	0.00
	Sikkim	88	0	1.4	1.5	-0.2	13	0.00
NER	Arunachal Pradesh	129	1	2.4	2.1	0.2	63	0.01
	Assam	1999	0	35.8	29.2	0.2	130	0.00
	Manipur	199	0	2.6	2.5	0.1	72	0.01
	Meghalaya	320	0	6.0	2.1	-0.1	48	0.00
	Mizoram	102	1	1.7	1.6	0.0	18	0.01
	Nagaland	130	1	2.4	2.6	-0.2	15	0.01
	Tripura	302	2	5.1	4.2	-0.2	56	0.01

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	45.2	-8.3	-23.5
Day Peak (MW)	1887.0	-498.1	-1030.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	330.4	-284.5	126.1	-171.1	-1.0	0.0
Actual(MU)	316.4	-280.6	125.6	-165.1	-4.1	-7.8
O/D/U/D(MU)	-14.0	3.9	-0.5	6.0	-3.1	-7.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3923	19108	10512	1005	588	35136	45
State Sector	9075	19144	10225	3877	11	42332	55
Total	12998	38252	20737	4882	600	77468	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	638	1102	482	522	16	2759	66
Lignite	25	10	46	0	0	81	2
Hydro	334	54	101	134	24	648	16
Nuclear	31	31	37	0	0	99	2
Gas, Naptha & Diesel	23	39	13	0	25	100	2
RES (Wind, Solar, Biomass & Others)	105	141	237	5	0	488	12
Total	1156	1378	916	660	65	4176	100

Share of RES in total generation (%)	9.08	10.27	25.87	0.71	0.35	11.70
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.63	16.44	41.00	21.00	37.83	29.59

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.039
Based on State Max Demands	1.089

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-2021

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	852	0.0	20.4	-20.4
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	0	734	0.0	13.7	-13.7
4	765 kV	SASARAM-FATEHPUR	1	0	380	0.0	5.8	-5.8
5	765 kV	GAYA-BALIA	1	0	548	0.0	8.5	-8.5
6	400 kV	PUSAULI-VARANASI	1	0	207	0.0	4.0	-4.0
7	400 kV	PUSAULI -ALLAHABAD	1	0	113	0.0	2.0	-2.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	809	0.0	15.4	-15.4
9	400 kV	PATNA-BALIA	4	0	1005	0.0	18.6	-18.6
10	400 kV	BIHARSHARIFF-BALIA	2	0	487	0.0	8.5	-8.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	452	0.0	9.1	-9.1
12	400 kV	BIHARSHARIFF-VARANASI	2	0	319	0.0	5.8	-5.8
13	220 kV	PUSAULI-SAHUPURI	1	9	102	0.0	1.5	-1.5
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	119.4	-119.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	391	950	0.0	1.5	-1.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1051	178	13.2	0.0	13.2
3	765 kV	JHARSUGUDA-DURG	2	0	263	0.0	3.3	-3.3
4	400 kV	JHARSUGUDA-RAIGARH	4	168	98	1.6	0.0	1.6
5	400 kV	RANCHI-SIPAT	2	308	46	4.4	0.0	4.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	95	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	129	0	1.8	0.0	1.8
					ER-WR	21.0	5.8	15.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	459	0.0	10.2	-10.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1994	0.0	43.6	-43.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2823	0.0	48.4	-48.4
4	400 kV	TALCHER-I/C	2	615	281	0.0	1.2	-1.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	102.1	-102.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	45	302	0.0	2.8	-2.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	170	352	0.0	1.9	-1.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	115	0.0	1.5	-1.5
					ER-NER	0.0	6.2	-6.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	12.2	-12.2
					NER-NR	0.0	12.2	-12.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1502	0.0	54.1	-54.1
2	HVDC	VINDHYACHAL B/B	-	0	2	0.0	0.0	0.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1452	0.0	31.1	-31.1
4	765 kV	GWALIOR-AGRA	2	0	2805	0.0	44.1	-44.1
5	765 kV	PHAGI-GWALIOR	2	0	1901	0.0	36.0	-36.0
6	765 kV	JABALPUR-ORAI	2	957	1144	0.0	37.8	-37.8
7	765 kV	GWALIOR-ORAI	1	666	0	13.7	0.0	13.7
8	765 kV	SATNA-ORAI	1	0	1500	0.0	30.7	-30.7
9	765 kV	CHITORGARH-BANASKANTHA	2	970	414	5.6	1.0	4.6
10	400 kV	ZERDA-KANKROLI	1	204	35	2.4	0.0	2.4
11	400 kV	ZERDA -BHINMAL	1	352	14	5.5	0.0	5.5
12	400 kV	VINDHYACHAL -RIHAND	1	955	0	21.3	0.0	21.3
13	400 kV	RAPP-SHUJALPUR	2	0	612	0.0	7.3	-7.3
14	220 kV	BHANPURA-RANPUR	1	0	86	0.0	1.3	-1.3
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9
16	220 kV	MEHGAON-AURAIYA	1	102	0	0.3	0.2	0.1
17	220 kV	MALANPUR-AURAIYA	1	65	30	0.8	0.0	0.8
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	49.5	244.5	-194.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	312	0.0	7.4	-7.4
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	24.3	-24.3
3	765 kV	SOLAPUR-RAICHUR	2	1462	2123	0.0	13.2	-13.2
4	765 kV	WARDHA-NIZAMABAD	2	24	2605	0.0	35.9	-35.9
5	400 kV	KOLHAPUR-KUDGI	2	913	116	10.6	0.1	10.5
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	82	1.6	0.0	1.6
					WR-SR	12.2	80.9	-68.7

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 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	645	0	602	14.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1029	0	1005	24.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	303	0	204	4.9
	NER	132KV-GEYLEGPHU - SALAKATI	-28	-18	-22	-0.5
	NER	132kV Motanga-Rangia	-62	-38	-48	-1.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-72	0	-41	-1.0
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-227	-102	-185	-4.5
	ER	132KV-BIHAR - NEPAL	-199	-1	-121	-2.9
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-915	-808	-867	-20.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	-58	0	-55	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	-57	0	-55	-1.3