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: 1st 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 31.05.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-मई -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 31st May 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: 01-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)	48888	46982	37569	21302	2403	157144
Peak Shortage (MW)	720	0	0	0	6	726
Energy Met (MU)	1155	1166	932	454	46	3753
Hydro Gen (MU)	263	64	72	104	20	522
Wind Gen (MU)	38	136	164	-	-	338
Solar Gen (MU)*	51.21	38.04	112.89	5.28	0.06	207
Energy Shortage (MU)	4.62	0.00	0.00	0.00	0.08	4.70
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52726	51821	43519	21710	2567	165851
Time Of Maximum Demand Met (From NLDC SCADA)	12:23	14:49	12:55	22:24	20:06	12:54

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	0.022	0.00	0.00	0.32	0.32	78.23	21.44

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	8054	0	159.8	111.4	-9.2	39	0.00
	Haryana	6789	0	144.4	131.6	-0.7	278	0.00
	Rajasthan	11347	0	242.7	74.9	-1.3	350	0.00
	Delhi	4882	0	90.0	78.1	-0.6	134	0.00
	UP	20604	0	402.6	165.1	1.3	470	1.17
	Uttarakhand	1666	0	36.9	17.9	-0.0	185	0.00
	HP	1398	0	26.8	1.4	-0.3	180	0.00
	J&K(UT) & Ladakh(UT)	2265	250	46.9	21.8	-0.3	297	3.45
	Chandigarh	280	0	4.9	5.3	-0.4	26	0.00
WR	Chhattisgarh	3819	0	89.7	40.3	-0.4	285	0.00
	Gujarat	16355	0	349.4	120.6	1.4	884	0.00
	MP	9494	0	207.9	119.0	-1.9	400	0.00
	Maharashtra	21415	0	471.1	159.2	0.5	869	0.00
	Goa	557	0	12.4	9.8	1.9	29	0.00
	DD	291	0	6.3	6.2	0.1	17	0.00
	DNH	717	0	16.3	16.3	0.0	50	0.00
	AMNSIL	603	0	13.1	0.9	0.2	241	0.00
SR	Andhra Pradesh	10214	0	204.2	104.4	0.7	519	0.00
	Telangana	7692	0	160.4	63.1	0.2	531	0.00
	Karnataka	10707	0	205.9	77.4	1.9	975	0.00
	Kerala	3263	0	68.1	43.0	0.3	252	0.00
	Tamil Nadu	12897	0	285.4	117.9	-0.1	406	0.00
	Puducherry	382	0	7.7	7.9	-0.2	57	0.00
ER	Bihar	5790	0	108.4	101.1	1.9	485	0.00
	DVC	3042	0	64.5	-43.1	0.1	276	0.00
	Jharkhand	1569	0	25.2	23.9	-3.9	151	0.00
	Odisha	5204	0	111.4	49.5	-0.3	380	0.00
	West Bengal	7696	0	142.8	35.5	-1.3	382	0.00
	Sikkim	84	0	1.3	1.4	-0.2	20	0.00
NER	Arunachal Pradesh	102	0	1.8	2.1	-0.4	16	0.02
	Assam	1524	3	28.6	21.4	1.1	150	0.00
	Manipur	241	0	2.5	2.6	-0.1	53	0.02
	Meghalaya	299	0	4.7	2.8	-0.2	80	0.00
	Mizoram	102	0	1.7	1.7	-0.0	14	0.02
	Nagaland	127	0	2.3	2.5	-0.1	17	0.01
	Tripura	250	1	4.4	3.7	-0.0	52	0.01

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	33.7	-3.7	-20.6
Day Peak (MW)	1431.0	-298.0	-1022.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	275.0	-246.9	84.6	-113.9	1.2	0.0
Actual(MU)	262.1	-246.0	90.9	-113.2	1.4	-4.8
O/D/U/D(MU)	-12.9	0.9	6.4	0.6	0.3	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7097	17763	10182	0	857	35899	41
State Sector	13938	19849	12598	4675	19	51079	59
Total	21035	37612	22780	4675	877	86978	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	469	1106	358	494	8	2435	63
Lignite	19	11	52	0	0	82	2
Hydro	263	64	72	105	20	522	14
Nuclear	30	32	66	0	0	128	3
Gas, Naptha & Diesel	23	33	12	0	22	90	2
RES (Wind, Solar, Biomass & Others)	111	174	293	5	0	583	15
Total	914	1420	852	604	50	3839	100

Share of RES in total generation (%)	12.11	12.27	34.38	0.87	0.12	15.19
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.08	19.05	50.53	18.17	39.30	32.12

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.039
Based on State Max Demands	1.096

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: 01-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	500	0.0	12.2	-12.2
2	HVDC	PUSAULI B/B	-	0	248	0.0	5.8	-5.8
3	765 kV	GAYA-VARANASI	2	0	550	0.0	7.3	-7.3
4	765 kV	SASARAM-FATEHPUR	1	71	239	0.0	2.0	-2.0
5	765 kV	GAYA-BALIA	1	0	476	0.0	8.8	-8.8
6	400 kV	PUSAULI-VARANASI	1	0	246	0.0	5.0	-5.0
7	400 kV	PUSAULI -ALLAHABAD	1	0	69	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	593	0.0	10.3	-10.3
9	400 kV	PATNA-BALIA	4	0	798	0.0	14.3	-14.3
10	400 kV	BIHARSHARIFF-BALIA	2	0	281	0.0	6.0	-6.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	345	0.0	7.1	-7.1
12	400 kV	BIHARSHARIFF-VARANASI	2	0	204	0.0	2.6	-2.6
13	220 kV	PUSAULI-SAHUPURI	1	74	94	0.0	0.9	-0.9
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	83.0	-82.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1454	0	19.7	0.0	19.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1141	115	13.6	0.0	13.6
3	765 kV	JHARSUGUDA-DURG	2	369	63	3.0	0.0	3.0
4	400 kV	JHARSUGUDA-RAIGARH	4	275	159	0.3	0.0	0.3
5	400 kV	RANCHI-SIPAT	2	313	48	3.7	0.0	3.7
6	220 kV	BUDHIPADAR-RAIGARH	1	8	90	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	102	0	1.7	0.0	1.7
					ER-WR	42.0	1.0	41.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	546	0.0	7.0	-7.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1986	0.0	42.5	-42.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2823	0.0	54.5	-54.5
4	400 kV	TALCHER-I/C	2	833	246	0.6	0.0	0.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	104.0	-104.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	398	0.0	5.1	-5.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	46	588	0.0	8.0	-8.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	145	0.0	2.2	-2.2
					ER-NER	0.0	15.2	-15.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	14.6	-14.6
					NER-NR	0.0	14.6	-14.6

Import/Export of WR (With NR)

1	HVDC	CHAMPA-KURUKSHETRA	2	0	2029	0.0	45.9	-45.9
2	HVDC	VINDHYACHAL B/B	-	0	251	0.0	5.2	-5.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	980	0.0	24.0	-24.0
4	765 kV	GWALIOR-AGRA	2	0	2665	0.0	43.2	-43.2
5	765 kV	PHAGI-GWALIOR	2	0	1527	0.0	25.0	-25.0
6	765 kV	JABALPUR-ORAI	2	644	1030	0.0	29.0	-29.0
7	765 kV	GWALIOR-ORAI	1	507	0	7.8	0.0	7.8
8	765 kV	SATNA-ORAI	1	0	1529	0.0	31.6	-31.6
9	765 kV	CHITORGARH-BANASKANTHA	2	530	299	2.2	0.0	2.2
10	400 kV	ZERDA-KANKROLI	1	193	13	2.6	0.0	2.6
11	400 kV	ZERDA -BHINMAL	1	379	48	5.0	0.0	5.0
12	400 kV	VINDHYACHAL -RIHAND	1	964	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUJALPUR	2	0	494	0.0	4.5	-4.5
14	220 kV	BHANPURA-RANPUR	1	0	122	0.0	2.3	-2.3
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.9	-1.9
16	220 kV	MEHGAON-AURAIYA	1	86	11	0.2	0.2	0.0
17	220 kV	MALANPUR-AURAIYA	1	55	36	0.7	0.0	0.7
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	40.9	212.9	-172.0

Import/Export of WR (With SR)

1	HVDC	BHADRAWATI B/B	-	0	711	0.0	11.9	-11.9
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	2	1078	1510	6.6	7.0	-0.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2168	0.0	31.1	-31.1
5	400 kV	KOLHAPUR-KUDGI	2	707	0	9.9	0.0	9.9
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	75	1.6	0.0	1.6
					WR-SR	18.0	50.0	-32.0

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)	583	0	488	11.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	699	0	660	15.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	249	0	199	4.8
	NER	132KV-GEYLEGPHU - SALAKATI	-45	-12	-17	-0.4
	NER	132kV Motanga-Rangia	-55	0	-38	-0.9
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-73	0	-47	-1.1
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-98	-2	-37	-0.9
	ER	132KV-BIHAR - NEPAL	-127	-1	-71	-1.7
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-852	-610	-723	-17.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	-85	0	-68	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	-85	0	-68	-1.6