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: 31th May 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 30.05.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-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 30th 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:** **31-May-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)	45197	45978	35622	21493	2844	151134
Peak Shortage (MW)	540	0	0	0	10	550
Energy Met (MU)	1069	1137	899	453	52	3610
Hydro Gen (MU)	265	48	75	111	16	515
Wind Gen (MU)	42	118	145	-	-	306
Solar Gen (MU)*	48.25	37.92	106.65	5.28	0.25	198
Energy Shortage (MU)	3.91	0.00	0.00	0.00	0.04	3.95
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51448	49725	40924	21618	2860	160772
Time Of Maximum Demand Met (From NLDC SCADA)	22:57	14:44	12:52	21:15	19:17	22:40

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	0.036	0.00	0.00	3.88	3.88	69.89	26.24

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	7854	0	167.8	116.6	-2.0	126	0.00
	Haryana	6474	0	127.6	122.6	-3.4	645	0.00
	Rajasthan	10930	0	230.8	70.7	-1.5	449	0.00
	Delhi	4500	0	83.7	73.1	-1.8	79	0.01
	UP	19376	0	353.5	154.4	0.1	382	0.45
	Uttarakhand	1596	0	30.5	14.6	-3.5	169	0.00
	HP	1134	0	24.7	0.0	-0.3	194	0.00
	J&K(UT) & Ladakh(UT)	2278	250	46.7	24.3	-1.7	162	3.45
	Chandigarh	249	0	3.6	5.4	-1.8	2	0.00
WR	Chhattisgarh	3845	0	88.6	40.5	-0.3	142	0.00
	Gujarat	15487	0	339.6	116.2	2.6	796	0.00
	MP	9313	0	208.2	118.9	-4.0	774	0.00
	Maharashtra	20133	0	451.9	170.4	-0.8	957	0.00
	Goa	522	0	11.1	8.6	1.8	51	0.00
	DD	267	0	6.0	5.7	0.3	32	0.00
	DNH	724	0	17.1	16.8	0.3	61	0.00
	AMNSIL	704	0	14.8	0.9	0.7	381	0.00
SR	Andhra Pradesh	10092	0	201.6	108.4	0.0	1043	0.00
	Telangana	7364	0	155.2	58.7	0.1	610	0.00
	Karnataka	10127	0	192.6	82.2	4.3	1492	0.00
	Kerala	3206	0	63.4	33.4	0.8	298	0.00
	Tamil Nadu	12050	0	278.6	123.7	-5.0	374	0.00
	Puducherry	360	0	7.2	7.2	0.0	42	0.00
ER	Bihar	5529	0	95.4	91.2	0.7	350	0.00
	DVC	2936	0	62.3	-41.6	-0.2	313	0.00
	Jharkhand	1454	0	25.7	23.0	-2.7	166	0.00
	Odisha	5090	0	108.8	45.2	0.3	191	0.00
	West Bengal	7876	0	159.8	38.7	0.2	340	0.00
	Sikkim	77	0	1.2	1.3	-0.2	20	0.00
NER	Arunachal Pradesh	107	0	2.0	1.8	0.1	52	0.01
	Assam	1807	0	33.1	28.3	-0.3	148	0.00
	Manipur	207	1	2.6	2.6	0.0	23	0.01
	Meghalaya	297	0	5.3	2.5	0.1	46	0.00
	Mizoram	104	1	1.7	1.7	-0.1	15	0.01
	Nagaland	136	1	2.3	2.5	-0.1	21	0.01
	Tripura	298	0	5.2	4.6	0.3	83	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	38.9	-2.6	-24.1
Day Peak (MW)	1770.0	-284.0	-1026.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	260.8	-234.7	74.4	-108.1	7.6	0.0
Actual(MU)	230.1	-230.8	90.7	-102.5	8.1	-4.4
O/D/U/D(MU)	-30.7	3.8	16.3	5.6	0.6	-4.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7097	18513	9522	930	772	36833	42
State Sector	14733	19129	13298	4715	19	51894	58
Total	21830	37642	22820	5645	791	88727	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	418	1109	343	473	11	2353	63
Lignite	20	12	48	0	0	80	2
Hydro	265	48	75	111	16	515	14
Nuclear	30	25	66	0	0	121	3
Gas, Naptha & Diesel	23	35	12	0	24	93	3
RES (Wind, Solar, Biomass & Others)	111	156	273	5	0	545	15
Total	866	1385	817	589	50	3707	100
Share of RES in total generation (%)	12.80	11.27	33.40	0.89	0.50	14.71	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	46.85	16.56	50.60	19.72	32.19	31.85	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.085

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: 31-May-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	1000	0.0	21.3	-21.3
2	HVDC	PUSAULI B/B	-	0	248	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	55	526	0.0	6.2	-6.2
4	765 kV	SASARAM-FATEHPUR	1	140	249	0.0	1.1	-1.1
5	765 kV	GAYA-BALIA	1	0	467	0.0	7.1	-7.1
6	400 kV	PUSAULI-VARANASI	1	0	235	0.0	4.8	-4.8
7	400 kV	PUSAULI -ALLAHABAD	1	45	82	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	578	0.0	7.7	-7.7
9	400 kV	PATNA-BALIA	4	0	766	0.0	9.7	-9.7
10	400 kV	BIHARSHARIFF-BALIA	2	1	238	0.0	3.7	-3.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	336	0.0	3.2	-3.2
12	400 kV	BIHARSHARIFF-VARANASI	2	70	190	0.0	2.0	-2.0
13	220 kV	PUSAULI-SAHUPURI	1	76	67	0.0	0.3	-0.3
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	0.0	0.3
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	0.3	74.0	-73.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1687	0	23.9	0.0	23.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1239	64	16.2	0.0	16.2
3	765 kV	JHARSUGUDA-DURG	2	408	74	2.7	0.0	2.7
4	400 kV	JHARSUGUDA-RAIGARH	4	264	88	1.2	0.0	1.2
5	400 kV	RANCHI-SIPAT	2	366	17	4.4	0.0	4.4
6	220 kV	BUDHIPADAR-RAIGARH	1	12	92	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	205	0	2.8	0.0	2.8
					ER-WR	51.1	1.0	50.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	283	0.0	6.1	-6.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2211	0.0	40.7	-40.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	3023	0.0	57.0	-57.0
4	400 kV	TALCHER-I/C	2	845	989	1.7	0.0	1.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	103.8	-103.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	478	0.0	8.7	-8.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	555	0.0	10.3	-10.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	149	0.0	3.0	-3.0
					ER-NER	0.0	22.0	-22.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	603	0.0	15.2	-15.2
					NER-NR	0.0	15.2	-15.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1508	0.0	30.3	-30.3
2	HVDC	VINDHYACHAL B/B	-	0	250	0.0	3.0	-3.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1729	0.0	34.7	-34.7
4	765 kV	GWALIOR-AGRA	2	0	2668	0.0	37.2	-37.2
5	765 kV	PHAGI-GWALIOR	2	0	1529	0.0	25.9	-25.9
6	765 kV	JABALPUR-ORAI	2	0	1030	0.0	30.1	-30.1
7	765 kV	GWALIOR-ORAI	1	553	0	9.0	0.0	9.0
8	765 kV	SATNA-ORAI	1	0	1534	0.0	29.9	-29.9
9	765 kV	CHITORGARH-BANASKANTHA	2	1130	431	9.5	1.2	8.3
10	400 kV	ZERDA-KANKROLI	1	266	20	3.6	0.0	3.6
11	400 kV	ZERDA -BHINMAL	1	469	55	6.8	0.0	6.8
12	400 kV	VINDHYACHAL -RIHAND	1	957	0	21.9	0.0	21.9
13	400 kV	RAPP-SHUJALPUR	2	42	491	0.0	4.9	-4.8
14	220 kV	BHANPURA-RANPUR	1	0	120	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	108	10	0.4	0.1	0.3
17	220 kV	MALANPUR-AURAIYA	1	70	37	1.1	0.0	1.1
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	52.4	201.5	-149.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	718	0.0	10.1	-10.1
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	2	1230	1333	5.5	7.6	-2.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2171	0.0	31.9	-31.9
5	400 kV	KOLHAPUR-KUDGI	2	762	0	11.5	0.0	11.5
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	80	1.3	0.0	1.3
					WR-SR	18.3	49.6	-31.3

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 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	546	0	476	11.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1041	0	848	20.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	266	0	233	5.6
	NER	132KV-GEYLEGPHU - SALAKATI	-27	-7	-20	-0.5
	NER	132kV Motanga-Rangia	-55	-35	-44	-1.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-70	0	-45	-1.1
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-86	0	-38	-0.9
	ER	132KV-BIHAR - NEPAL	-128	0	-24	-0.6
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-852	-838	-843	-20.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	-87	0	-80	-1.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	-87	0	-80	-1.9