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 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 23.05.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-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 23rd 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:** **24-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)	42568	44653	34574	23496	2723	148014
Peak Shortage (MW)	200	0	0	0	4	204
Energy Met (MU)	922	1106	801	497	52	3379
Hydro Gen (MU)	198	55	78	79	15	425
Wind Gen (MU)	20	90	110	-	-	219
Solar Gen (MU)*	53.05	39.24	105.76	5.17	0.23	203
Energy Shortage (MU)	6.18	0.00	0.00	0.00	0.06	6.24
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	44361	47407	35813	24335	3042	151777
Time Of Maximum Demand Met (From NLDC SCADA)	22:28	23:47	13:24	22:41	19:21	22:52

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	0.043	0.00	0.05	8.45	8.49	75.27	16.24

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	6397	0	137.9	92.8	-1.2	43	0.00
	Haryana	5311	0	110.5	91.9	-1.1	168	0.00
	Rajasthan	8716	0	181.2	41.0	-1.2	769	0.00
	Delhi	2849	0	60.4	50.2	-1.2	90	0.00
	UP	17490	0	323.5	135.9	1.9	397	2.73
	Uttarakhand	1446	0	31.8	13.7	1.0	205	0.00
	HP	1203	0	24.6	6.2	0.9	116	0.00
	J&K(UT) & Ladakh(UT)	2274	250	48.6	28.5	-0.3	184	3.45
	Chandigarh	175	0	3.6	3.7	-0.1	21	0.00
WR	Chhattisgarh	3730	0	86.4	36.1	0.2	300	0.00
	Gujarat	13601	0	305.3	146.0	-1.8	450	0.00
	MP	9008	0	200.0	107.9	-1.8	310	0.00
	Maharashtra	20482	0	463.8	151.2	-3.6	633	0.00
	Goa	514	0	10.9	8.6	1.7	69	0.00
	DD	259	0	5.7	5.4	0.3	43	0.00
	DNH	680	0	16.0	15.6	0.4	71	0.00
	AMNSIL	822	0	17.9	0.9	0.4	271	0.00
SR	Andhra Pradesh	7785	0	161.1	62.3	-0.7	841	0.00
	Telangana	6908	0	149.9	54.9	-1.6	364	0.00
	Karnataka	8411	0	168.4	57.7	0.2	610	0.00
	Kerala	3164	0	61.7	31.2	-0.2	239	0.00
	Tamil Nadu	11778	0	253.7	138.2	-1.3	689	0.00
	Puducherry	336	0	6.6	7.1	-0.5	29	0.00
ER	Bihar	5901	0	117.7	112.5	4.5	360	0.00
	DVC	3066	0	66.3	-41.0	0.2	381	0.00
	Jharkhand	1699	0	29.0	25.9	-2.6	210	0.00
	Odisha	5339	0	109.7	39.6	-1.0	370	0.00
	West Bengal	9217	0	173.1	51.5	1.0	593	0.00
	Sikkim	85	0	1.4	1.3	0.1	44	0.00
NER	Arunachal Pradesh	100	1	1.8	1.7	0.0	107	0.01
	Assam	1828	0	33.3	26.7	1.7	221	0.00
	Manipur	187	2	2.5	2.5	0.0	27	0.03
	Meghalaya	284	0	5.1	2.5	0.0	60	0.00
	Mizoram	89	0	1.7	1.7	0.0	18	0.01
	Nagaland	135	11	2.3	2.3	-0.1	20	0.01
	Tripura	337	0	5.6	5.4	0.8	84	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	17.1	-9.7	-26.3
Day Peak (MW)	788.0	-607.2	-1102.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	202.0	-180.9	36.6	-67.3	9.6	0.0
Actual(MU)	174.1	-174.4	29.7	-48.6	12.7	-6.5
O/D/U/D(MU)	-27.9	6.6	-6.9	18.7	3.1	-6.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7642	19773	8622	0	1022	37058	41
State Sector	14038	20133	12638	5565	11	52385	59
Total	21679	39906	21260	5565	1033	89443	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	395	1049	360	499	8	2310	67
Lignite	22	10	45	0	0	77	2
Hydro	198	55	78	79	15	425	12
Nuclear	31	33	66	0	0	130	4
Gas, Naptha & Diesel	18	22	11	0	23	73	2
RES (Wind, Solar, Biomass & Others)	92	130	226	5	0	453	13
Total	756	1298	786	583	46	3469	100

Share of RES in total generation (%)	12.13	9.99	28.74	0.88	0.50	13.05
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.52	16.73	47.07	14.47	33.09	29.06

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.065

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-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	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	574	0.0	8.3	-8.3
4	765 kV	SASARAM-FATEHPUR	1	101	246	0.0	1.0	-1.0
5	765 kV	GAYA-BALIA	1	0	473	0.0	8.1	-8.1
6	400 kV	PUSAULI-VARANASI	1	0	220	0.0	4.6	-4.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	99	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	529	0.0	7.0	-7.0
9	400 kV	PATNA-BALIA	4	0	810	0.0	13.8	-13.8
10	400 kV	BIHARSHARIFF-BALIA	2	30	230	0.0	3.1	-3.1
11	400 kV	MOTIHARI-GORAKHPUR	2	0	305	0.0	5.2	-5.2
12	400 kV	BIHARSHARIFF-VARANASI	2	24	248	0.0	2.5	-2.5
13	220 kV	PUSAULI-SAHUPURI	1	97	28	0.0	1.1	-1.1
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	62.0	-61.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1178	0	11.8	0.0	11.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1376	0	20.3	0.0	20.3
3	765 kV	JHARSUGUDA-DURG	2	325	79	2.7	0.0	2.7
4	400 kV	JHARSUGUDA-RAIGARH	4	226	66	2.0	0.0	2.0
5	400 kV	RANCHI-SIPAT	2	379	0	5.9	0.0	5.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	96	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	123	0	2.0	0.0	2.0
					ER-WR	44.6	1.5	43.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	283	0.0	6.7	-6.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1626	0.0	31.9	-31.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2325	0.0	36.3	-36.3
4	400 kV	TALCHER-I/C	2	1274	0	9.3	0.0	9.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	74.9	-74.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	161	141	0.4	0.0	0.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	216	281	0.0	1.5	-1.5
3	220 kV	ALIPURDUAR-SALAKATI	2	25	63	0.0	0.4	-0.4
					ER-NER	0.4	1.9	-1.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	489	0	10.3	0.0	10.3
					NER-NR	10.3	0.0	10.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2767	0.0	28.7	-28.7
2	HVDC	VINDHYACHAL B/B	-	204	0	5.9	0.0	5.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1364	0.0	26.2	-26.2
4	765 kV	GWALIOR-AGRA	2	0	2821	0.0	48.1	-48.1
5	765 kV	PHAGI-GWALIOR	2	0	1515	0.0	26.3	-26.3
6	765 kV	JABALPUR-ORAI	2	0	967	0.0	34.7	-34.7
7	765 kV	GWALIOR-ORAI	1	603	0	11.0	0.0	11.0
8	765 kV	SATNA-ORAI	1	0	1486	0.0	30.9	-30.9
9	765 kV	CHITORGARH-BANASKANTHA	2	1141	294	15.6	0.0	15.6
10	400 kV	ZERDA-KANKROLI	1	313	0	5.1	0.0	5.1
11	400 kV	ZERDA -BHINMAL	1	561	0	9.1	0.0	9.1
12	400 kV	VINDHYACHAL -RIHAND	1	975	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	2	0	382	0.0	4.3	-4.3
14	220 kV	BHANPURA-RANPUR	1	0	106	0.0	1.8	-1.8
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4
16	220 kV	MEHGAON-AURAIYA	1	58	17	0.1	0.3	-0.2
17	220 kV	MALANPUR-AURAIYA	1	31	42	0.5	0.0	0.4
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	69.7	202.7	-133.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	322	0.0	7.6	-7.6
2	HVDC	RAIGARH-PUGALUR	2	0	502	0.0	12.1	-12.1
3	765 kV	SOLAPUR-RAICHUR	2	1754	877	17.8	1.2	16.6
4	765 kV	WARDHA-NIZAMABAD	2	386	1361	0.7	11.0	-10.2
5	400 kV	KOLHAPUR-KUDGI	2	869	0	14.5	0.0	14.5
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	1	81	1.3	0.0	1.3
					WR-SR	34.3	31.8	2.5

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 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	485	0	393	9.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	232	196	223	5.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	97	56	60	1.5
	NER	132KV-GEYLEGPHU - SALAKATI	15	6	7	0.2
	NER	132kV Motanga-Rangia	-41	-39	-41	-1.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-78	0	-64	-1.5
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-301	-130	-205	-4.9
	ER	132KV-BIHAR - NEPAL	-228	-64	-137	-3.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-933	-930	-931	-22.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	-84	0	-82	-2.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	-85	0	-82	-2.0