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 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 30.04.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-अप्रैल-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 April 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-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)	50136	49756	43995	22269	2646	168802
Peak Shortage (MW)	350	0	0	0	70	420
Energy Met (MU)	1097	1277	1050	481	52	3957
Hydro Gen (MU)	149	54	71	40	10	323
Wind Gen (MU)	13	60	24	-	-	96
Solar Gen (MU)*	44.61	36.05	106.60	4.98	0.20	192
Energy Shortage (MU)	6.42	0.00	0.00	0.00	1.11	7.53
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51562	57572	48670	22293	2821	175900
Time Of Maximum Demand Met (From NLDC SCADA)	22:35	15:01	14:58	19:04	18:30	14:58

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	0.024	0.00	0.00	1.46	1.46	79.32	19.22

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	6993	0	154.9	75.3	-0.5	103	0.00
	Haryana	7058	0	146.9	111.4	-0.5	149	0.00
	Rajasthan	11148	0	223.6	61.3	-0.8	339	0.00
	Delhi	3936	0	80.1	65.0	-1.2	46	0.00
	UP	19520	0	369.6	152.1	-1.3	507	0.02
	Uttarakhand	1707	0	37.6	19.8	0.1	188	0.00
	HP	1478	0	29.2	13.2	0.6	131	0.00
	J&K(UT) & Ladakh(UT)	2512	350	50.9	38.6	-0.6	321	6.40
	Chandigarh	228	0	4.5	4.6	-0.2	23	0.00
WR	Chhattisgarh	4104	0	98.5	37.8	-0.5	166	0.00
	Gujarat	17680	0	382.1	107.6	-1.9	632	0.00
	MP	10319	0	228.7	133.7	-1.8	838	0.00
	Maharashtra	23590	0	515.3	156.9	-2.2	747	0.00
	Goa	516	0	11.1	10.9	-0.3	28	0.00
	DD	303	0	6.7	6.6	0.1	24	0.00
	DNH	705	0	16.4	16.6	-0.2	44	0.00
	AMNSIL	777	0	17.7	1.2	0.4	291	0.00
SR	Andhra Pradesh	10076	0	202.9	100.5	1.2	685	0.00
	Telangana	8778	0	175.7	51.1	0.7	415	0.00
	Karnataka	10686	0	210.1	56.0	0.9	455	0.00
	Kerala	3885	0	83.0	60.0	0.4	225	0.00
	Tamil Nadu	16244	0	369.0	251.3	2.2	774	0.00
	Puducherry	443	0	9.2	9.4	-0.2	25	0.00
ER	Bihar	5839	0	111.7	99.4	4.8	507	0.00
	DVC	2991	0	60.9	-49.6	-0.5	300	0.00
	Jharkhand	1390	0	23.1	22.0	-3.6	218	0.00
	Odisha	5347	0	112.3	42.8	-0.7	331	0.00
	West Bengal	8791	0	172.2	40.1	-2.1	489	0.00
	Sikkim	72	0	1.0	1.5	-0.5	10	0.00
NER	Arunachal Pradesh	135	0	2.4	2.5	-0.2	22	0.01
	Assam	1748	6	33.2	29.8	-0.1	150	0.00
	Manipur	156	0	2.3	2.5	-0.2	12	0.02
	Meghalaya	273	40	4.4	3.5	0.0	19	1.05
	Mizoram	82	1	1.4	1.6	-0.2	8	0.02
	Nagaland	147	0	2.2	2.4	-0.2	25	0.01
	Tripura	307	0	6.0	4.2	1.0	68	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.6	-16.4	-25.7
Day Peak (MW)	425.0	-774.5	-1102.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	254.7	-325.0	142.4	-82.6	10.5	0.0
Actual(MU)	247.7	-336.8	157.8	-87.3	13.5	-5.1
O/D/U/D(MU)	-7.0	-11.8	15.4	-4.7	3.0	-5.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4877	14233	7602	548	947	28207	44
State Sector	12615	12563	6495	3835	11	35519	56
Total	17492	26796	14097	4383	958	63726	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	565	1382	563	566	12	3089	76
Lignite	22	10	50	0	0	82	2
Hydro	149	54	71	40	10	323	8
Nuclear	21	28	59	0	0	109	3
Gas, Naptha & Diesel	34	67	11	0	23	134	3
RES (Wind, Solar, Biomass & Others)	78	96	156	5	0	335	8
Total	869	1637	909	611	45	4071	100

Share of RES in total generation (%)	9.02	5.85	17.11	0.81	0.45	8.23
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.61	10.87	31.39	7.30	22.47	18.83

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.040
Based on State Max Demands	1.080

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-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	-	1	248	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	621	0.0	9.2	-9.2
4	765 kV	SASARAM-FATEHPUR	1	16	270	0.0	2.7	-2.7
5	765 kV	GAYA-BALIA	1	0	526	0.0	8.5	-8.5
6	400 kV	PUSAULI-VARANASI	1	0	225	0.0	4.8	-4.8
7	400 kV	PUSAULI -ALLAHABAD	1	49	79	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	175	422	0.0	3.1	-3.1
9	400 kV	PATNA-BALIA	4	0	986	0.0	14.6	-14.6
10	400 kV	BIHARSHARIFF-BALIA	2	123	257	0.0	1.5	-1.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	313	0.0	4.3	-4.3
12	400 kV	BIHARSHARIFF-VARANASI	2	10	238	0.0	1.6	-1.6
13	220 kV	PUSAULI-SAHUPURI	1	16	117	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	0.5	0.0	0.5
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	0.5	58.5	-58.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1275	0	16.8	0.0	16.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1213	0	17.4	0.0	17.4
3	765 kV	JHARSUGUDA-DURG	2	144	84	0.3	0.0	0.3
4	400 kV	JHARSUGUDA-RAIGARH	4	187	112	1.0	0.0	1.0
5	400 kV	RANCHI-SIPAT	2	317	0	4.6	0.0	4.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	104	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	165	0	3.0	0.0	3.0
					ER-WR	43.0	1.7	41.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	522	0.0	11.3	-11.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1979	0.0	43.9	-43.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	3069	0.0	55.5	-55.5
4	400 kV	TALCHER-I/C	2	30	667	0.0	6.7	-6.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	110.7	-110.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	139	201	0.0	1.1	-1.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	198	286	0.0	1.9	-1.9
3	220 kV	ALIPURDUAR-SALAKATI	2	30	55	0.0	0.4	-0.4
					ER-NER	0.0	3.3	-3.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	488	0	10.6	0.0	10.6
					NER-NR	10.6	0.0	10.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	0	0.0	54.4	-54.4
2	HVDC	VINDHYACHAL B/B	-	0	253	0.0	6.0	-6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1920	0.0	43.9	-43.9
4	765 kV	GWALIOR-AGRA	2	0	2766	0.0	51.8	-51.8
5	765 kV	PHAGI-GWALIOR	2	0	1724	0.0	31.8	-31.8
6	765 kV	JABALPUR-ORAI	2	0	1032	0.0	37.1	-37.1
7	765 kV	GWALIOR-ORAI	1	712	0	13.2	0.0	13.2
8	765 kV	SATNA-ORAI	1	0	1519	0.0	32.1	-32.1
9	765 kV	CHITORGARH-BANASKANTHA	2	1077	0	14.3	0.0	14.3
10	400 kV	ZERDA-KANKROLI	1	239	0	3.7	0.0	3.7
11	400 kV	ZERDA -BHINMAL	1	423	0	5.1	0.0	5.1
12	400 kV	VINDHYACHAL -RIHAND	1	967	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	0	519	0.0	8.0	-8.0
14	220 kV	BHANPURA-RANPUR	1	0	81	0.0	1.3	-1.3
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.1	-1.1
16	220 kV	MEHGAON-AURAIYA	1	71	15	0.1	0.3	-0.2
17	220 kV	MALANPUR-AURAIYA	1	38	39	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	59.5	267.9	-208.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	522	0.0	12.2	-12.2
2	HVDC	RAIGARH-PUGALUR	2	0	2893	0.0	30.5	-30.5
3	765 kV	SOLAPUR-RAICHUR	2	627	2134	1.8	19.0	-17.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2406	0.0	31.6	-31.6
5	400 kV	KOLHAPUR-KUDGI	2	606	294	4.1	0.9	3.2
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	85	1.7	0.0	1.7
					WR-SR	7.6	94.2	-86.7

INTERNATIONAL EXCHANGES

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)	214	0	179	4.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	110	62	110	2.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	42	0	17	0.4
	NER	132KV-GEYLEGPHU - SALAKATI	32	0	17	0.4
	NER	132kV Motanga-Rangia	27	0	-10	-0.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-78	0	-70	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-359	-282	-325	-7.8
	ER	132KV-BIHAR - NEPAL	-338	-210	-288	-6.9
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-938	0	-935	-22.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	82	0	-68	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	82	0	-68	-1.6