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: 22th April 2022

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 21.04.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-अप्रैल-2022 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 21th April 2022, 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:** **22-Apr-2022**

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)	53922	60165	44622	24045	2820	185574
Peak Shortage (MW)	2369	193	0	440	0	3002
Energy Met (MU)	1261	1478	1135	524	48	4446
Hydro Gen (MU)	188	50	98	56	8	399
Wind Gen (MU)	29	81	29	-	-	139
Solar Gen (MU)*	92.08	40.71	109.57	4.91	0.50	248
Energy Shortage (MU)	33.21	19.44	3.84	13.34	0.26	70.09
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55251	65364	54192	24635	2852	197283
Time Of Maximum Demand Met (From NLDC SCADA)	10:45	14:41	12:53	19:53	19:01	14:48

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	0.232	6.31	16.11	23.02	45.43	50.76	3.81

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	7838	0	170.7	71.3	-3.3	47	0.00
	Haryana	7272	848	155.3	90.9	-1.6	193	14.16
	Rajasthan	12249	0	264.3	65.5	-2.6	261	10.55
	Delhi	5632	0	112.2	94.4	-2.6	151	0.00
	UP	19832	1030	438.8	166.9	-2.7	258	0.00
	Uttarakhand	1953	115	40.4	24.9	0.5	151	4.99
	HP	1564	0	32.6	14.0	1.2	477	0.00
	J&K(UT) & Ladakh(UT)	1963	0	41.3	30.0	-2.6	0	3.51
	Chandigarh	244	0	5.0	5.0	0.0	50	0.00
WR	Chhattisgarh	5228	42	121.8	64.1	-0.7	230	0.58
	Gujarat	20152	0	435.1	209.0	-1.0	579	0.00
	MP	11476	83	261.3	136.3	-0.3	541	10.16
	Maharashtra	27036	212	599.0	197.4	3.1	1094	8.70
	Goa	701	0	15.6	14.2	1.0	78	0.00
	DD	354	0	7.9	8.0	-0.1	23	0.00
	DNH	890	0	20.5	20.6	-0.1	50	0.00
	AMNSIL	763	0	17.0	10.1	-1.3	196	0.00
SR	Andhra Pradesh	11045	259	208.4	80.6	2.9	775	3.84
	Telangana	11732	0	233.1	111.9	-0.4	539	0.00
	Karnataka	11491	0	230.5	64.3	-1.4	549	0.00
	Kerala	4132	0	89.6	57.6	0.0	258	0.00
	Tamil Nadu	16316	0	363.5	213.3	7.6	1043	0.00
	Puducherry	452	0	9.8	9.6	0.1	64	0.00
ER	Bihar	6235	0	116.2	104.0	0.9	363	2.86
	DVC	3557	0	80.2	-46.0	-0.5	383	0.00
	Jharkhand	1610	0	31.9	22.7	0.0	295	8.72
	Odisha	5379	0	112.6	48.5	2.8	794	1.76
	West Bengal	9060	0	181.3	52.0	3.0	836	0.00
	Sikkim	110	0	1.8	1.5	0.3	52	0.00
NER	Arunachal Pradesh	137	0	2.3	2.1	0.1	58	0.00
	Assam	1763	0	30.1	24.7	-0.2	73	0.14
	Manipur	190	10	2.6	2.5	0.1	25	0.12
	Meghalaya	340	0	5.9	2.5	-0.1	36	0.00
	Mizoram	115	0	1.6	1.6	-0.2	3	0.00
	Nagaland	147	0	2.3	2.1	0.0	21	0.00
	Tripura	251	0	3.7	2.9	-0.2	35	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.9	-9.1	-21.2
Day Peak (MW)	408.0	-577.0	-1090.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	127.7	-170.3	169.0	-127.8	1.5	0.0
Actual(MU)	107.5	-159.6	174.9	-119.7	0.7	3.7
O/D/U/D(MU)	-20.2	10.7	6.0	8.1	-0.8	3.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3495	11003	8138	500	1020	24156	45
State Sector	8529	12130	6797	2350	47	29853	55
Total	12024	23133	14935	2850	1067	54009	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	776	1439	598	625	17	3455	76
Lignite	14	14	50	0	0	78	2
Hydro	188	50	98	56	8	399	9
Nuclear	25	32	46	0	0	103	2
Gas, Naptha & Diesel	25	15	14	0	28	82	2
RES (Wind, Solar, Biomass & Others)	149	123	175	5	1	452	10
Total	1177	1673	980	686	53	4569	100

Share of RES in total generation (%)	12.64	7.34	17.80	0.72	0.94	9.88
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.75	12.25	32.46	8.89	15.10	20.88

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.060

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: 22-Apr-2022

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	-	4	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	92	650	0.0	7.2	-7.2
4	765 kV	SASARAM-FATEHPUR	1	0	472	0.0	8.4	-8.4
5	765 kV	GAYA-BALIA	1	0	430	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	0	95	0.0	1.3	-1.3
7	400 kV	PUSAULI -ALLAHABAD	1	1	133	0.0	1.4	-1.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	798	0.0	11.2	-11.2
9	400 kV	PATNA-BALIA	2	0	535	0.0	9.3	-9.3
10	400 kV	NAUBATPUR-BALIA	2	0	591	0.0	10.0	-10.0
11	400 kV	BIHARSHARIFF-BALIA	2	102	392	0.0	3.3	-3.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	0	0.0	0.0	0.0
13	400 kV	BIHARSHARIFF-VARANASI	2	0	328	0.0	4.5	-4.5
14	220 kV	SAHUPURI-KARAMNASA	1	0	139	0.0	2.7	-2.7
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.6	0.0	0.6
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.6	67.5	-66.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	13.5	0.0	13.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	715	321	4.1	0.0	4.1
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	4.3	-4.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	7.6	-7.6
5	400 kV	RANCHI-SIPAT	2	160	166	0.0	0.9	-0.9
6	220 kV	BUDHIPADAR-RAIGARH	1	5	152	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	67	31	0.4	0.0	0.4
					ER-WR	18.0	15.1	2.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	555	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1986	0.0	48.1	-48.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2482	0.0	51.2	-51.2
4	400 kV	TALCHER-I/C	2	0	145	0.0	2.8	-2.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	111.7	-111.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	366	39	3.6	0.0	3.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	511	61	6.4	0.0	6.4
3	220 kV	ALIPURDUAR-SALAKATI	2	85	22	1.0	0.0	1.0
					ER-NER	10.9	0.0	10.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	466	0	10.5	0.0	10.5
					NER-NR	10.5	0.0	10.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2	0.0	0.0	0.0
2	HVDC	VINDHYACHAL B/B	-	273	52	5.1	0.4	4.8
3	HVDC	MUNDRA-MOHINDERGARH	2	490	0	11.7	0.0	11.7
4	765 kV	GWALIOR-AGRA	2	0	1429	0.0	25.1	-25.1
5	765 kV	GWALIOR-PHAGI	2	75	1294	0.0	20.0	-20.0
6	765 kV	JABALPUR-ORAI	2	0	655	0.0	23.7	-23.7
7	765 kV	GWALIOR-ORAI	1	622	0	11.7	0.0	11.7
8	765 kV	SATNA-ORAI	1	0	944	0.0	20.1	-20.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1193	0	15.2	0.0	15.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2335	0.0	42.8	-42.8
11	400 kV	ZERDA-KANKROLI	1	330	0	4.3	0.0	4.3
12	400 kV	ZERDA -BHINMAL	1	602	0	6.5	0.0	6.5
13	400 kV	VINDHYACHAL -RIHAND	1	975	0	22.4	0.0	22.4
14	400 kV	RAPP-SHUJALPUR	2	472	225	2.5	1.7	0.9
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0
17	220 kV	MEHGAON-AURAIYA	1	113	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	62	0	2.0	0.0	2.0
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	82.3	133.6	-51.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	2508	0.0	51.3	-51.3
3	765 kV	SOLAPUR-RAICHUR	2	14	1501	0.0	20.2	-20.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2400	0.0	44.1	-44.1
5	400 kV	KOLHAPUR-KUDGI	2	1309	0	23.2	0.0	23.2
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	130	2.6	0.0	2.6
					WR-SR	25.8	139.6	-113.8

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&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	150	0	119	2.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	244	0	208	5.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	34	7	7	0.2
	NER	132kV GELEPHU-SALAKATI	0	0	0	0.0
	NER	132kV MOTANGA-RANGIA	-23	11	-7	-0.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-62	-1.5
	ER	NEPAL IMPORT (FROM BIHAR)	-236	-39	-123	-2.9
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-267	-103	-196	-4.7
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-937	-503	-760	-18.2
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-153	0	-124	-3.0