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 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 23.04.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-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 23rd 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:** **24-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)	53887	60724	45038	23503	2691	185843
Peak Shortage (MW)	3960	0	0	687	0	4647
Energy Met (MU)	1231	1498	1117	528	46	4420
Hydro Gen (MU)	174	52	97	64	8	396
Wind Gen (MU)	4	73	22	-	-	99
Solar Gen (MU)*	99.81	49.32	96.79	5.15	0.29	251
Energy Shortage (MU)	76.06	9.15	1.86	9.22	0.04	96.33
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54724	67958	54045	23918	2784	197309
Time Of Maximum Demand Met (From NLDC SCADA)	20:00	15:21	11:51	23:15	18:43	11:36

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	0.210	4.07	14.86	28.08	47.01	49.74	3.25

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	7719	0	171.5	62.6	-2.0	69	0.50
	Haryana	7289	300	156.5	83.9	0.7	212	20.23
	Rajasthan	12405	1308	257.0	67.3	0.2	304	39.43
	Delhi	5082	0	104.9	89.0	-1.9	199	0.00
	UP	19056	0	424.2	164.9	-1.1	334	3.78
	Uttarakhand	2153	70	41.2	25.9	0.3	349	4.27
	HP	1637	0	31.9	13.1	3.7	539	1.57
	J&K(UT) & Ladakh(UT)	1896	0	39.6	27.0	-0.5	88	6.28
	Chandigarh	223	0	4.7	4.6	0.0	24	0.00
WR	Chhattisgarh	4876	0	114.4	56.9	-1.5	168	0.00
	Gujarat	20377	0	433.0	206.6	0.4	766	0.00
	MP	12235	0	273.4	139.9	-0.4	441	9.15
	Maharashtra	28210	0	615.3	194.2	1.2	799	0.00
	Goa	687	0	15.6	14.0	1.2	60	0.00
	DD	339	0	6.9	6.9	0.0	33	0.00
	DNH	873	0	20.2	20.0	0.2	62	0.00
	AMNSIL	858	0	19.5	9.5	0.3	352	0.00
SR	Andhra Pradesh	11072	0	208.1	81.7	2.4	654	1.86
	Telangana	10692	0	219.3	101.3	0.0	796	0.00
	Karnataka	12188	0	238.1	67.3	-1.5	567	0.00
	Kerala	3564	0	80.9	54.0	-0.8	283	0.00
	Tamil Nadu	16741	0	361.0	211.8	2.9	631	0.00
	Puducherry	443	0	9.5	9.8	-0.3	25	0.00
ER	Bihar	5785	0	112.3	102.5	-0.7	410	2.64
	DVC	3584	0	79.1	-45.5	-0.2	270	0.00
	Jharkhand	1550	0	31.2	21.1	0.6	209	6.58
	Odisha	5380	0	114.3	41.7	5.3	784	0.00
	West Bengal	9221	0	189.8	63.3	2.1	744	0.00
	Sikkim	99	0	1.5	1.4	0.1	49	0.00
NER	Arunachal Pradesh	132	0	2.2	2.4	-0.2	29	0.00
	Assam	1643	0	27.2	22.5	-0.6	84	0.00
	Manipur	193	0	2.5	2.6	-0.1	28	0.04
	Meghalaya	335	0	5.7	3.2	-0.2	27	0.00
	Mizoram	116	0	1.6	1.8	-0.3	7	0.00
	Nagaland	139	0	2.2	2.3	-0.1	11	0.00
	Tripura	266	0	4.4	4.1	-0.1	30	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	9.7	-6.8	-25.6
Day Peak (MW)	511.0	51.0	-1100.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	128.6	-165.9	156.3	-117.7	-1.3	0.0
Actual(MU)	121.1	-168.5	151.9	-110.1	-3.9	-9.5
O/D/U/D(MU)	-7.5	-2.6	-4.4	7.6	-2.6	-9.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4434	12699	7268	1920	1091	27412	50
State Sector	8059	11531	5567	2050	47	27253	50
Total	12493	24229	12835	3970	1138	54665	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	773	1466	618	607	18	3481	77
Lignite	14	14	50	0	0	78	2
Hydro	174	52	97	64	8	396	9
Nuclear	22	33	46	0	0	100	2
Gas, Naptha & Diesel	22	14	17	0	29	82	2
RES (Wind, Solar, Biomass & Others)	129	123	149	5	0	407	9
Total	1134	1702	977	676	55	4544	100

Share of RES in total generation (%)	11.42	7.23	15.29	0.76	0.53	8.97
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.67	12.23	29.95	10.20	15.44	19.88

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
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: 24-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	0	494	0.0	6.8	-6.8
4	765 kV	SASARAM-FATEHPUR	1	0	470	0.0	9.6	-9.6
5	765 kV	GAYA-BALIA	1	0	387	0.0	6.9	-6.9
6	400 kV	PUSAULI-VARANASI	1	0	94	0.0	1.5	-1.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	133	0.0	1.8	-1.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1006	0.0	15.2	-15.2
9	400 kV	PATNA-BALIA	2	0	494	0.0	8.9	-8.9
10	400 kV	NAUBATPUR-BALIA	2	0	546	0.0	9.0	-9.0
11	400 kV	BIHARSHARIFF-BALIA	2	34	385	0.0	4.7	-4.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	0	0.0	0.0	0.0
13	400 kV	BIHARSHARIFF-VARANASI	2	0	285	0.0	4.1	-4.1
14	220 kV	SAHUPURI-KARAMNASA	1	0	146	0.0	2.6	-2.6
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.2	-0.2
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	71.4	-71.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	12.7	0.0	12.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	299	175	1.1	0.0	1.1
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	3.8	-3.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	5.4	-5.4
5	400 kV	RANCHI-SIPAT	2	35	162	0.0	1.5	-1.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	124	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	78	17	0.6	0.0	0.6
					ER-WR	14.4	12.9	1.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	347	0.0	7.5	-7.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1986	0.0	45.9	-45.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2380	0.0	47.4	-47.4
4	400 kV	TALCHER-I/C	2	322	152	0.0	0.4	-0.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	100.8	-100.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	400	0	5.4	0.0	5.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	528	0	8.1	0.0	8.1
3	220 kV	ALIPURDUAR-SALAKATI	2	101	0	1.4	0.0	1.4
					ER-NER	14.9	0.0	14.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	463	0	11.0	0.0	11.0
					NER-NR	11.0	0.0	11.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	221	0.0	4.4	-4.4
2	HVDC	VINDHYACHAL B/B	-	93	0	2.4	0.0	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	491	0	10.0	0.0	10.0
4	765 kV	GWALIOR-AGRA	2	0	1445	0.0	24.7	-24.7
5	765 kV	GWALIOR-PHAGI	2	0	1447	0.0	21.4	-21.4
6	765 kV	JABALPUR-ORAI	2	0	668	0.0	22.2	-22.2
7	765 kV	GWALIOR-ORAI	1	645	0	12.2	0.0	12.2
8	765 kV	SATNA-ORAI	1	0	993	0.0	21.2	-21.2
9	765 kV	BANASKANTHA-CHITORGARH	2	1163	0	13.7	0.0	13.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2228	0.0	43.3	-43.3
11	400 kV	ZERDA-KANKROLI	1	295	0	3.8	0.0	3.8
12	400 kV	ZERDA -BHINMAL	1	499	92	3.6	0.0	3.6
13	400 kV	VINDHYACHAL -RIHAND	1	975	0	22.6	0.0	22.6
14	400 kV	RAPP-SHUJALPUR	2	366	243	2.2	1.9	0.4
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	143	0	0.9	0.0	0.9
18	220 kV	MALANPUR-AURAIYA	1	74	0	2.2	0.0	2.2
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	73.6	139.0	-65.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	21.5	-21.5
2	HVDC	RAIGARH-PUGALUR	2	0	3009	0.0	55.8	-55.8
3	765 kV	SOLAPUR-RAICHUR	2	168	1317	0.1	12.4	-12.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2179	0.0	38.9	-38.9
5	400 kV	KOLHAPUR-KUDGI	2	1321	0	24.9	0.0	24.9
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	125	2.5	0.0	2.5
					WR-SR	27.5	128.7	-101.2

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)	258	0	184	4.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	246	0	218	5.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	43	0	8	0.2
	NER	132kV GELEPHU-SALAKATI	11	0	-3	-0.1
	NER	132kV MOTANGA-RANGIA	-25	1	11	0.3
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-53	-1.3
	ER	NEPAL IMPORT (FROM BIHAR)	238	22	-161	-3.9
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-112	0	-71	-1.7
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-942	-936	-939	-22.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-158	0	-130	-3.1