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: 17th 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 16.04.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16th 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:** **17-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)	55461	60786	42611	24830	2255	185943
Peak Shortage (MW)	1181	0	804	0	0	1985
Energy Met (MU)	1233	1506	1092	560	39	4430
Hydro Gen (MU)	170	37	80	64	7	358
Wind Gen (MU)	19	109	53	-	-	181
Solar Gen (MU)*	100.55	50.24	99.97	5.11	0.52	256
Energy Shortage (MU)	17.38	0.17	21.20	1.64	0.13	40.52
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57730	66595	53326	25627	2381	194731
Time Of Maximum Demand Met (From NLDC SCADA)	22:34	15:30	14:49	23:15	18:05	14:59

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	0.060	0.12	3.47	10.25	13.84	75.92	10.24

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	7530	0	161.1	69.9	-2.0	123	0.85
	Haryana	8525	0	157.9	102.6	-0.9	238	2.48
	Rajasthan	13078	0	265.8	65.9	-1.5	356	3.58
	Delhi	4974	0	103.3	89.2	-2.2	94	0.00
	UP	20505	770	421.7	142.4	0.4	321	1.68
	Uttarakhand	1857	0	38.2	23.6	0.7	305	4.11
	HP	1653	0	33.0	14.1	2.8	469	0.03
	J&K(UT) & Ladakh(UT)	2265	150	47.6	30.2	5.2	545	4.65
	Chandigarh	222	0	4.6	5.0	-0.4	12	0.00
WR	Chhattisgarh	5182	25	125.0	65.0	-0.5	287	0.06
	Gujarat	19819	0	433.8	204.6	-2.6	725	0.00
	MP	12364	0	278.0	140.1	0.8	671	0.00
	Maharashtra	27367	0	609.7	198.6	-1.1	834	0.00
	Goa	632	0	14.3	13.4	0.5	99	0.11
	DD	344	0	8.0	8.0	0.0	26	0.00
	DNH	858	0	20.1	20.4	-0.3	37	0.00
	AMNSIL	791	0	16.9	10.2	0.2	256	0.00
SR	Andhra Pradesh	11110	958	210.5	82.2	0.1	931	21.20
	Telangana	12386	0	243.7	114.5	-1.6	481	0.00
	Karnataka	11550	0	212.7	61.1	-2.7	712	0.00
	Kerala	3933	0	80.3	54.5	-0.5	183	0.00
	Tamil Nadu	15480	0	335.8	208.7	-0.9	591	0.00
	Puducherry	435	0	9.3	9.2	0.0	34	0.00
ER	Bihar	6326	0	123.6	118.3	-1.1	265	1.07
	DVC	3611	0	79.4	-44.8	-0.4	239	0.00
	Jharkhand	1777	0	37.0	28.6	-0.9	195	0.44
	Odisha	5614	0	121.6	58.7	-1.6	416	0.13
	West Bengal	9356	0	197.2	67.2	0.0	461	0.00
	Sikkim	107	0	1.4	1.3	0.1	34	0.00
NER	Arunachal Pradesh	132	0	2.0	2.1	-0.1	24	0.00
	Assam	1399	0	20.7	17.2	-1.1	78	0.00
	Manipur	143	0	2.3	2.3	0.0	18	0.00
	Meghalaya	323	0	5.1	3.9	0.1	43	0.13
	Mizoram	101	0	1.7	1.8	-0.2	20	0.00
	Nagaland	146	0	2.1	2.0	0.0	17	0.00
	Tripura	287	0	5.0	4.8	-0.2	25	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	10.9	-9.2	-26.3
Day Peak (MW)	544.0	-669.3	-1123.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	124.5	-159.7	128.4	-87.7	-5.4	0.0
Actual(MU)	121.6	-150.9	115.8	-81.4	-6.1	-0.9
O/D/U/D(MU)	-2.9	8.9	-12.6	6.4	-0.7	-0.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3964	11252	6418	700	1046	23379	44
State Sector	8694	12948	5627	2650	95	30013	56
Total	12658	24199	12045	3350	1141	53392	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	745	1441	625	622	16	3450	76
Lignite	20	9	48	0	0	77	2
Hydro	170	37	80	64	7	358	8
Nuclear	26	33	46	0	0	104	2
Gas, Naptha & Diesel	19	9	9	0	28	64	1
RES (Wind, Solar, Biomass & Others)	148	160	186	5	1	500	11
Total	1130	1689	992	691	51	4553	100

Share of RES in total generation (%)	13.14	9.48	18.71	0.74	1.01	10.98
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.50	13.63	31.35	9.97	14.38	21.13

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.056
Based on State Max Demands	1.090

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: 17-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	-	3	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	136	626	0.0	6.4	-6.4
4	765 kV	SASARAM-FATEHPUR	1	0	421	0.0	8.1	-8.1
5	765 kV	GAYA-BALIA	1	0	575	0.0	9.4	-9.4
6	400 kV	PUSAULI-VARANASI	1	0	70	0.0	0.9	-0.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	138	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	274	850	0.0	9.2	-9.2
9	400 kV	PATNA-BALIA	2	0	535	0.0	8.4	-8.4
10	400 kV	NAUBATPUR-BALIA	2	0	594	0.0	9.3	-9.3
11	400 kV	BIHARSHARIFF-BALIA	2	180	370	0.0	3.0	-3.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	0	0.0	0.0	0.0
13	400 kV	BIHARSHARIFF-VARANASI	2	74	306	0.0	2.9	-2.9
14	220 kV	SAHUPURI-KARAMNASA	1	0	157	0.0	0.8	-0.8
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5
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	0.5	59.4	-59.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	12.1	0.0	12.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	889	65	10.2	0.0	10.2
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	2.3	-2.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	7.1	-7.1
5	400 kV	RANCHI-SIPAT	2	145	90	0.3	0.0	0.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	134	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	84	17	0.6	0.0	0.6
					ER-WR	23.2	11.8	11.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	552	0.0	12.2	-12.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1589	0.0	36.4	-36.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2554	0.0	47.6	-47.6
4	400 kV	TALCHER-I/C	2	729	0	8.6	0.0	8.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	96.1	-96.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	443	0	6.3	0.0	6.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	628	0	9.6	0.0	9.6
3	220 kV	ALIPURDUAR-SALAKATI	2	111	0	1.7	0.0	1.7
					ER-NER	17.5	0.0	17.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	466	0	10.2	0.0	10.2
					NER-NR	10.2	0.0	10.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3	0.0	0.0	0.0
2	HVDC	VINDHYACHAL B/B	-	448	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	502	0.0	11.7	-11.7
4	765 kV	GWALIOR-AGRA	2	0	1989	0.0	29.4	-29.4
5	765 kV	GWALIOR-PHAGI	2	283	1373	0.4	19.7	-19.3
6	765 kV	JABALPUR-ORAI	2	16	907	0.0	25.0	-25.0
7	765 kV	GWALIOR-ORAI	1	613	0	6.6	0.0	6.6
8	765 kV	SATNA-ORAI	1	0	1049	0.0	20.2	-20.2
9	765 kV	BANASKANTHA-CHITORGARH	2	940	192	7.8	0.0	7.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	0	0.0	49.2	-49.2
11	400 kV	ZERDA-KANKROLI	1	264	0	3.1	0.0	3.1
12	400 kV	ZERDA -BHINMAL	1	482	52	5.2	0.0	5.2
13	400 kV	VINDHYACHAL -RIHAND	1	989	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	490	364	2.5	3.4	-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	83	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	54	0	1.5	0.0	1.5
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	62.1	158.5	-96.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	12.4	-12.4
2	HVDC	RAIGARH-PUGALUR	2	0	1504	0.0	40.3	-40.3
3	765 kV	SOLAPUR-RAICHUR	2	535	1001	1.5	4.7	-3.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2524	0.0	39.9	-39.9
5	400 kV	KOLHAPUR-KUDGI	2	1300	0	27.0	0.0	27.0
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	122	2.4	0.0	2.4
					WR-SR	30.9	97.2	-66.3

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&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	224	0	187	4.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	303	223	258	6.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	99	16	20	0.5
	NER	132kV GELEPHU-SALAKATI	-7	0	-2	0.0
	NER	132kV MOTANGA-RANGIA	17	0	11	0.3
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-62	0	-49	-1.2
	ER	NEPAL IMPORT (FROM BIHAR)	-319	-13	-158	-3.8
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-288	-46	-175	-4.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-954	-942	-943	-22.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-169	0	-152	-3.6