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: 05th 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 04.04.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04rd 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:** **05-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)	54146	60797	48065	23464	2431	188903
Peak Shortage (MW)	919	686	0	84	13	1702
Energy Met (MU)	1152	1474	1215	514	42	4397
Hydro Gen (MU)	173	64	98	93	21	448
Wind Gen (MU)	12	46	27	-	-	84
Solar Gen (MU)*	101.40	51.98	107.45	5.07	0.18	266
Energy Shortage (MU)	5.98	1.07	11.32	1.54	0.14	20.05
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55218	65005	59025	23927	2558	194622
Time Of Maximum Demand Met (From NLDC SCADA)	19:59	15:33	11:28	20:31	18:18	10:58

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	0.107	1.75	5.09	18.71	25.55	68.14	6.31

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	6833	250	149.5	49.9	-1.6	87	0.70
	Haryana	7401	0	139.2	86.2	-0.1	212	0.41
	Rajasthan	11998	0	249.4	52.9	-1.3	185	0.00
	Delhi	4494	0	94.5	82.5	-0.9	128	0.00
	UP	20606	170	397.5	141.7	-1.5	549	0.00
	Uttarakhand	1911	0	39.8	24.4	0.9	161	0.22
	HP	1597	0	31.7	11.8	0.5	312	0.00
	J&K(UT) & Ladakh(UT)	2111	300	46.5	34.0	1.7	242	4.65
	Chandigarh	222	0	4.5	5.0	-0.5	11	0.00
WR	Chhattisgarh	5194	0	123.3	57.5	-0.6	195	0.00
	Gujarat	19836	0	424.5	212.2	3.3	835	0.00
	MP	11827	381	257.8	133.3	1.4	925	1.07
	Maharashtra	28259	0	611.1	187.2	-0.5	930	0.00
	Goa	677	0	14.6	13.8	0.7	36	0.00
	DD	343	0	7.5	7.4	0.1	38	0.00
	DNH	818	0	18.4	18.4	0.0	79	0.00
	AMNSIL	762	0	17.1	10.9	-0.4	263	0.00
SR	Andhra Pradesh	11700	449	220.8	87.3	3.6	1158	11.32
	Telangana	13196	0	265.7	136.9	-0.7	675	0.00
	Karnataka	14197	0	271.5	88.9	0.1	680	0.00
	Kerala	4122	0	85.0	59.1	-1.1	289	0.00
	Tamil Nadu	16471	0	363.1	249.2	-1.9	642	0.00
	Puducherry	430	0	9.1	9.3	-0.3	33	0.00
ER	Bihar	5882	0	114.4	108.3	-1.1	286	0.45
	DVC	3560	0	77.4	-55.5	0.1	302	0.00
	Jharkhand	1586	84	33.9	25.1	-1.0	138	1.09
	Odisha	5068	0	108.5	49.5	-4.4	277	0.00
	West Bengal	8591	0	178.1	50.9	-0.9	321	0.00
	Sikkim	109	0	1.7	1.7	0.0	46	0.00
NER	Arunachal Pradesh	132	0	2.2	2.7	-0.6	24	0.00
	Assam	1437	0	23.8	19.7	-0.3	119	0.00
	Manipur	194	0	2.6	2.6	0.0	35	0.00
	Meghalaya	325	0	5.1	2.8	-0.1	75	0.00
	Mizoram	109	0	1.7	1.8	-0.3	3	0.00
	Nagaland	135	24	2.2	2.1	0.1	19	0.14
	Tripura	266	0	4.3	4.1	-0.4	35	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	26.4	-7.7	-26.1
Day Peak (MW)	1361.0	-625.1	-1114.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	73.1	-141.2	232.7	-152.1	-12.5	0.0
Actual(MU)	57.6	-118.8	232.2	-162.2	-15.9	-7.1
O/D/U/D(MU)	-15.5	22.4	-0.4	-10.2	-3.5	-7.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3170	12662	6318	1600	594	24343	44
State Sector	9079	12921	6412	2208	11	30630	56
Total	12249	25582	12730	3808	605	54973	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	727	1416	631	619	15	3408	75
Lignite	17	11	50	0	0	79	2
Hydro	173	64	98	93	21	448	10
Nuclear	31	33	46	0	0	111	2
Gas, Naptha & Diesel	22	6	9	0	28	64	1
RES (Wind, Solar, Biomass & Others)	147	99	162	5	0	414	9
Total	1118	1630	996	716	64	4524	100

Share of RES in total generation (%)	13.16	6.08	16.30	0.70	0.28	9.15
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.48	12.01	30.76	13.63	33.15	21.50

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.057
Based on State Max Demands	1.091

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: 05-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	623	0.0	8.3	-8.3
4	765 kV	SASARAM-FATEHPUR	1	0	385	0.0	7.1	-7.1
5	765 kV	GAYA-BALIA	1	0	457	0.0	6.2	-6.2
6	400 kV	PUSAULI-VARANASI	1	0	118	0.0	1.8	-1.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	101	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	12	850	0.0	11.9	-11.9
9	400 kV	PATNA-BALIA	2	0	563	0.0	10.2	-10.2
10	400 kV	NAUBATPUR-BALIA	2	0	622	0.0	11.1	-11.1
11	400 kV	BIHARSHARIFF-BALIA	2	51	385	0.0	4.4	-4.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	0	0.0	0.0	0.0
13	400 kV	BIHARSHARIFF-VARANASI	2	0	280	0.0	3.6	-3.6
14	220 kV	SAHUPURI-KARAMNASA	1	0	160	0.0	2.5	-2.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.5	68.0	-67.5
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	131	1270	0.0	13.7	-13.7
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	12.4	-12.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	8.8	-8.8
5	400 kV	RANCHI-SIPAT	2	0	365	0.0	4.8	-4.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	177	0.0	3.4	-3.4
7	220 kV	BUDHIPADAR-KORBA	2	137	0	2.2	0.0	2.2
					ER-WR	15.7	43.0	-27.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	705	0.0	16.1	-16.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2483	0.0	49.7	-49.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	3091	0.0	58.9	-58.9
4	400 kV	TALCHER-I/C	2	0	647	0.0	4.6	-4.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	124.7	-124.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	515	0	6.2	0.0	6.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	708	0	6.0	0.0	6.0
3	220 kV	ALIPURDUAR-SALAKATI	2	113	7	0.8	0.0	0.8
					ER-NER	13.1	0.0	13.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	478	353	0.0	2.7	-2.7
					NER-NR	0.0	2.7	-2.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2126	0.0	33.5	-33.5
2	HVDC	VINDHYACHAL B/B	-	447	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	251	0.0	3.8	-3.8
4	765 kV	GWALIOR-AGRA	2	474	1109	2.8	7.3	-4.5
5	765 kV	GWALIOR-PHAGI	2	447	1047	1.6	14.5	-12.9
6	765 kV	JABALPUR-ORAI	2	353	408	0.0	4.4	-4.4
7	765 kV	GWALIOR-ORAI	1	660	0	11.4	0.0	11.4
8	765 kV	SATNA-ORAI	1	0	934	0.0	16.2	-16.2
9	765 kV	BANASKANTHA-CHITORGARH	2	2106	0	34.3	0.0	34.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	1829	0.0	19.4	-19.4
11	400 kV	ZERDA-KANKROLI	1	491	0	7.5	0.0	7.5
12	400 kV	ZERDA -BHINMAL	1	784	0	9.2	0.0	9.2
13	400 kV	VINDHYACHAL -RIHAND	1	975	0	21.5	0.0	21.5
14	400 kV	RAPP-SHUJALPUR	2	783	43	7.9	0.0	7.9
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	144	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	103	0	2.3	0.0	2.3
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	112.3	99.0	13.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	4016	0.0	81.5	-81.5
3	765 kV	SOLAPUR-RAICHUR	2	0	1999	0.0	24.5	-24.5
4	765 kV	WARDHA-NIZAMABAD	2	0	3244	0.0	52.5	-52.5
5	400 kV	KOLHAPUR-KUDGI	2	1312	0	20.2	0.0	20.2
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	121	2.5	0.0	2.5
					WR-SR	22.7	182.5	-159.8

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)	446	0	399	9.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	681	510	605	14.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	201	0	135	3.2
	NER	132kV GELEPHU-SALAKATI	-23	5	-10	-0.3
	NER	132kV MOTANGA-RANGIA	-34	-20	-30	-0.7
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-65	0	-46	-1.1
	ER	NEPAL IMPORT (FROM BIHAR)	-297	0	-129	-3.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-263	0	-147	-3.5
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-944	-934	-942	-22.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-170	0	-146	-3.5