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: 02nd 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 01.04.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-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 01st 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:** **02-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)	53636	59709	47201	24107	2466	187119
Peak Shortage (MW)	510	0	35	265	0	810
Energy Met (MU)	1176	1444	1252	520	48	4440
Hydro Gen (MU)	172	51	90	57	20	391
Wind Gen (MU)	11	66	42	-	-	119
Solar Gen (MU)*	101.79	49.04	106.69	4.97	0.35	263
Energy Shortage (MU)	4.65	0.25	0.74	4.21	0.00	9.85
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54752	62545	60814	24462	2626	198477
Time Of Maximum Demand Met (From NLDC SCADA)	19:43	15:34	11:49	19:11	18:35	10:56

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	0.025	0.00	0.00	1.12	1.12	79.40	19.48

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	7259	0	156.2	50.6	-1.2	116	0.00
	Haryana	6724	0	143.5	90.8	-1.4	174	0.00
	Rajasthan	11682	0	243.4	42.9	-2.5	359	0.00
	Delhi	4416	0	93.2	82.4	-1.0	115	0.00
	UP	20612	0	416.6	168.1	-0.4	454	0.00
	Uttarakhand	1836	0	39.3	24.3	-0.3	122	0.00
	HP	1591	0	31.3	12.3	0.0	195	0.00
	J&K(UT) & Ladakh(UT)	2124	250	47.8	35.2	-0.2	228	4.65
	Chandigarh	214	0	4.3	4.7	-0.4	17	0.00
WR	Chhattisgarh	5053	0	120.4	54.4	0.5	234	0.00
	Gujarat	18914	0	417.2	209.3	-0.8	432	0.00
	MP	12451	0	259.8	133.4	-1.2	652	0.00
	Maharashtra	26555	0	590.6	171.0	0.5	867	0.25
	Goa	676	0	14.8	14.3	0.2	45	0.00
	DD	307	0	7.0	6.8	0.2	52	0.00
	DNH	786	0	18.2	17.5	0.7	115	0.00
	AMNSIL	766	0	15.6	9.9	-0.3	267	0.00
SR	Andhra Pradesh	12021	244	234.5	110.5	3.6	868	0.74
	Telangana	13580	0	274.0	138.4	-0.8	475	0.00
	Karnataka	14465	0	276.2	78.3	0.8	753	0.00
	Kerala	4057	0	89.0	56.4	0.3	220	0.00
	Tamil Nadu	16939	0	368.9	245.8	-1.1	553	0.00
	Puducherry	425	0	9.3	9.8	-0.6	29	0.00
ER	Bihar	5931	0	115.3	108.9	-1.7	238	0.80
	DVC	3600	0	76.2	-49.5	-0.7	203	0.00
	Jharkhand	1661	0	31.2	27.1	-1.1	187	3.41
	Odisha	5029	0	111.2	45.6	0.5	445	0.00
	West Bengal	8916	0	184.4	47.7	-0.6	587	0.00
	Sikkim	113	0	1.7	1.6	0.1	72	0.00
NER	Arunachal Pradesh	126	0	2.2	2.6	-0.5	25	0.00
	Assam	1480	0	27.7	22.9	0.4	79	0.00
	Manipur	202	0	2.7	2.6	0.1	22	0.00
	Meghalaya	354	0	6.4	3.4	0.2	52	0.00
	Mizoram	116	0	1.9	1.6	0.0	13	0.00
	Nagaland	139	0	2.4	2.3	0.1	12	0.00
	Tripura	271	0	4.7	4.3	-0.6	19	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	15.2	-6.5	-25.9
Day Peak (MW)	873.0	-628.7	-1095.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	92.8	-197.7	227.8	-114.3	-8.7	0.0
Actual(MU)	71.1	-185.4	229.7	-109.2	-5.2	1.0
O/D/U/D(MU)	-21.7	12.3	1.9	5.1	3.5	1.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3810	11602	6068	2281	560	24321	46
State Sector	8739	12918	5222	1938	11	28827	54
Total	12549	24520	11290	4219	571	53148	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	735	1439	663	603	12	3452	76
Lignite	18	12	49	0	0	79	2
Hydro	172	51	90	57	20	391	9
Nuclear	32	33	47	0	0	112	2
Gas, Naptha & Diesel	20	7	8	0	27	62	1
RES (Wind, Solar, Biomass & Others)	147	115	184	5	0	451	10
Total	1125	1657	1041	665	59	4547	100

Share of RES in total generation (%)	13.09	6.95	17.66	0.74	0.59	9.93	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.21	12.04	30.87	9.30	34.32	20.98	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.065

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: 02-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	260	233	0.0	0.7	-0.7
4	765 kV	SASARAM-FATEHPUR	1	0	275	0.0	4.6	-4.6
5	765 kV	GAYA-BALIA	1	0	544	0.0	10.0	-10.0
6	400 kV	PUSAULI-VARANASI	1	5	78	0.0	0.8	-0.8
7	400 kV	PUSAULI -ALLAHABAD	1	30	80	0.0	0.2	-0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	218	800	0.0	4.9	-4.9
9	400 kV	PATNA-BALIA	2	6	474	0.0	6.2	-6.2
10	400 kV	NAUBATPUR-BALIA	2	24	515	0.0	6.7	-6.7
11	400 kV	BIHARSHARIFF-BALIA	2	195	395	0.0	2.6	-2.6
12	400 kV	MOTIHARI-GORAKHPUR	2	83	273	0.0	3.2	-3.2
13	400 kV	BIHARSHARIFF-VARANASI	2	96	148	0.0	0.9	-0.9
14	220 kV	SAHUPURI-KARAMNASA	1	0	162	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	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	43.5	-43.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	647	0	9.5	0.0	9.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	886	177	7.8	0.0	7.8
3	765 kV	JHARSUGUDA-DURG	2	0	377	0.0	5.0	-5.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	332	0.0	5.9	-5.9
5	400 kV	RANCHI-SIPAT	2	175	113	0.7	0.0	0.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	186	0.0	3.1	-3.1
7	220 kV	BUDHIPADAR-KORBA	2	86	0	1.4	0.0	1.4
					ER-WR	19.4	14.0	5.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	713	0.0	15.2	-15.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	48.1	-48.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2955	0.0	56.5	-56.5
4	400 kV	TALCHER-I/C	2	0	165	0.0	3.0	-3.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	119.9	-119.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	248	67	1.8	0.1	1.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	315	132	1.6	0.0	1.6
3	220 kV	ALIPURDUAR-SALAKATI	2	53	29	0.3	0.0	0.3
					ER-NER	3.6	0.1	3.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	353	0.0	8.4	-8.4
					NER-NR	0.0	8.4	-8.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	616	0.0	14.4	-14.4
2	HVDC	VINDHYACHAL B/B	-	447	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	251	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	1309	0.0	14.8	-14.8
5	765 kV	GWALIOR-PHAGI	2	311	1035	0.5	13.7	-13.2
6	765 kV	JABALPUR-ORAI	2	44	667	0.0	14.0	-14.0
7	765 kV	GWALIOR-ORAI	1	661	0	11.1	0.0	11.1
8	765 kV	SATNA-ORAI	1	0	839	0.0	16.6	-16.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1881	0	31.5	0.0	31.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	2580	0.0	45.6	-45.6
11	400 kV	ZERDA-KANKROLI	1	465	0	7.6	0.0	7.6
12	400 kV	ZERDA -BHINMAL	1	638	0	9.8	0.0	9.8
13	400 kV	VINDHYACHAL -RIHAND	1	964	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	645	75	6.0	0.1	6.0
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	130	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	88	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	103.6	125.3	-21.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	19.7	-19.7
2	HVDC	RAIGARH-PUGALUR	2	0	6028	0.0	98.6	-98.6
3	765 kV	SOLAPUR-RAICHUR	2	276	1691	0.2	17.0	-16.8
4	765 kV	WARDHA-NIZAMABAD	2	0	3100	0.0	48.4	-48.4
5	400 kV	KOLHAPUR-KUDGI	2	1367	0	22.5	0.0	22.5
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	128	2.7	0.0	2.7
					WR-SR	25.4	183.7	-158.3

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)	307	171	233	5.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	469	251	340	8.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	131	43	73	1.8
	NER	132kV GELEPHU-SALAKATI	-11	-3	-5	-0.1
	NER	132kV MOTANGA-RANGIA	25	9	18	0.4
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-47	0	-28	-0.7
	ER	NEPAL IMPORT (FROM BIHAR)	-342	-21	-157	-3.8
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-240	32	-88	-2.1
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-939	-933	-938	-22.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-156	0	-141	-3.4