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: 13th 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 12.04.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12th 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:** **13-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)	55299	60108	45416	24086	2538	187447
Peak Shortage (MW)	2877	2778	1236	1377	227	8495
Energy Met (MU)	1244	1471	1165	542	48	4470
Hydro Gen (MU)	206	68	104	67	10	455
Wind Gen (MU)	37	103	26	-	-	167
Solar Gen (MU)*	100.01	47.71	105.31	5.09	0.44	259
Energy Shortage (MU)	25.70	38.53	26.13	14.22	1.37	105.95
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56774	66400	56204	24844	2714	197313
Time Of Maximum Demand Met (From NLDC SCADA)	22:35	15:03	11:22	23:00	18:16	15:03

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	0.198	3.36	13.84	26.14	43.34	52.12	4.54

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	7380	100	159.3	56.0	-1.9	95	6.38
	Haryana	7303	608	155.5	103.2	-0.9	135	6.51
	Rajasthan	12500	0	258.5	57.3	-1.5	326	3.61
	Delhi	5197	0	110.0	91.5	-2.4	132	0.00
	UP	20386	940	431.7	144.9	-0.1	376	1.11
	Uttarakhand	1895	105	40.7	23.5	0.3	180	3.35
	HP	1553	0	33.4	11.3	-0.6	208	0.09
	J&K(UT) & Ladakh(UT)	2143	250	49.5	34.4	-0.9	122	4.65
	Chandigarh	266	0	5.3	5.5	-0.3	21	0.00
WR	Chhattisgarh	5254	21	122.6	64.0	0.8	242	4.86
	Gujarat	20031	0	433.3	205.8	4.2	535	0.00
	MP	11674	244	257.0	130.7	4.1	1199	17.61
	Maharashtra	28611	1315	598.2	163.8	4.2	1130	15.39
	Goa	676	0	14.5	13.5	0.5	53	0.67
	DD	353	0	8.0	7.8	0.2	34	0.00
	DNH	870	0	20.5	20.4	0.1	48	0.00
	AMNSIL	788	0	17.1	9.3	1.2	291	0.00
SR	Andhra Pradesh	11259	991	208.8	74.4	1.3	633	26.13
	Telangana	12989	0	254.6	117.6	-0.6	301	0.00
	Karnataka	13582	0	269.3	86.8	5.6	962	0.00
	Kerala	3683	0	78.0	48.3	-1.0	207	0.00
	Tamil Nadu	15534	0	345.0	225.5	-1.7	523	0.00
	Puducherry	426	0	9.0	9.0	0.0	38	0.00
ER	Bihar	5820	490	117.3	109.4	0.7	275	4.00
	DVC	3609	0	75.0	-34.6	0.9	414	4.30
	Jharkhand	1559	205	32.7	24.2	0.0	245	5.34
	Odisha	5786	0	120.3	56.0	-1.2	413	0.58
	West Bengal	9681	0	194.6	63.9	0.5	349	0.00
	Sikkim	111	0	1.8	1.6	0.1	26	0.00
NER	Arunachal Pradesh	133	0	2.4	2.2	0.0	58	0.00
	Assam	1594	120	27.8	21.5	0.4	116	1.20
	Manipur	174	34	2.6	2.5	0.0	23	0.14
	Meghalaya	347	0	6.2	2.8	-0.1	53	0.00
	Mizoram	100	0	1.8	1.7	0.1	13	0.00
	Nagaland	135	3	2.5	1.6	0.7	33	0.03
	Tripura	285	0	4.9	4.4	0.0	40	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	12.8	-9.6	-26.2
Day Peak (MW)	890.0	-685.0	-1114.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	95.5	-167.6	165.0	-93.3	0.4	0.0
Actual(MU)	72.3	-153.8	161.3	-85.7	1.1	-4.8
O/D/U/D(MU)	-23.1	13.8	-3.7	7.6	0.8	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3221	14717	7088	1215	1274	27514	46
State Sector	8399	14971	5455	3258	11	32093	54
Total	11619	29687	12543	4473	1285	59607	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	739	1384	660	591	14	3388	74
Lignite	20	4	38	0	0	62	1
Hydro	206	68	104	67	10	454	10
Nuclear	26	33	46	0	0	105	2
Gas, Naptha & Diesel	31	8	9	0	29	77	2
RES (Wind, Solar, Biomass & Others)	171	152	161	5	0	490	11
Total	1193	1648	1018	663	53	4575	100

Share of RES in total generation (%)	14.34	9.21	15.83	0.77	0.83	10.70
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.82	15.31	30.53	10.90	18.85	22.93

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.049
Based on State Max Demands	1.083

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: 13-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	263	536	0.0	5.4	-5.4
4	765 kV	SASARAM-FATEHPUR	1	0	372	0.0	6.0	-6.0
5	765 kV	GAYA-BALIA	1	0	476	0.0	7.8	-7.8
6	400 kV	PUSAULI-VARANASI	1	44	82	0.0	0.5	-0.5
7	400 kV	PUSAULI -ALLAHABAD	1	109	103	0.0	0.1	-0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	331	770	0.0	7.4	-7.4
9	400 kV	PATNA-BALIA	2	0	520	0.0	7.5	-7.5
10	400 kV	NAUBATPUR-BALIA	2	0	577	0.0	8.3	-8.3
11	400 kV	BIHARSHARIFF-BALIA	2	210	346	0.0	2.6	-2.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	0	0.0	0.0	0.0
13	400 kV	BIHARSHARIFF-VARANASI	2	133	376	0.0	1.9	-1.9
14	220 kV	SAHUPURI-KARAMNASA	1	0	142	0.0	2.4	-2.4
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	0.6	49.8	-49.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	13.8	0.0	13.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1021	214	10.4	0.0	10.4
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	3.3	-3.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	5.1	-5.1
5	400 kV	RANCHI-SIPAT	2	191	97	0.7	0.0	0.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	125	0.0	2.1	-2.1
7	220 kV	BUDHIPADAR-KORBA	2	125	0	1.5	0.0	1.5
					ER-WR	26.4	10.4	16.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	552	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	44.8	-44.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2651	0.0	44.4	-44.4
4	400 kV	TALCHER-I/C	2	421	629	0.0	6.6	-6.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	101.7	-101.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	430	0	4.5	0.0	4.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	578	0	6.7	0.0	6.7
3	220 kV	ALIPURDUAR-SALAKATI	2	76	31	1.0	0.0	1.0
					ER-NER	12.1	0.0	12.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	472	0	11.7	0.0	11.7
					NER-NR	11.7	0.0	11.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3	0.0	0.0	0.0
2	HVDC	VINDHYACHAL B/B	-	449	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	503	11.7	0.0	11.7
4	765 kV	GWALIOR-AGRA	2	228	1542	0.2	20.4	-20.2
5	765 kV	GWALIOR-PHAGI	2	539	1098	1.7	14.9	-13.2
6	765 kV	JABALPUR-ORAI	2	145	705	0.0	18.9	-18.9
7	765 kV	GWALIOR-ORAI	1	708	0	10.6	0.0	10.6
8	765 kV	SATNA-ORAI	1	0	991	0.0	16.6	-16.6
9	765 kV	BANASKANTHA-CHITORGARH	2	919	250	5.4	0.0	5.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2367	0.0	39.4	-39.4
11	400 kV	ZERDA-KANKROLI	1	279	0	3.8	0.0	3.8
12	400 kV	ZERDA -BHINMAL	1	551	0	7.2	0.0	7.2
13	400 kV	VINDHYACHAL -RIHAND	1	971	0	16.8	0.0	16.8
14	400 kV	RAPP-SHUJALPUR	2	722	208	4.4	1.1	3.2
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	94	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	67	0	1.9	0.0	1.9
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	76.7	111.3	-34.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	20.7	-20.7
2	HVDC	RAIGARH-PUGALUR	2	0	4515	0.0	63.3	-63.3
3	765 kV	SOLAPUR-RAICHUR	2	939	1747	3.1	8.5	-5.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2828	0.0	37.9	-37.9
5	400 kV	KOLHAPUR-KUDGI	2	1269	0	21.9	0.0	21.9
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	108	2.2	0.0	2.2
					WR-SR	27.2	130.3	-103.1

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)	286	0	205	4.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	466	0	318	7.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	120	0	55	1.3
	NER	132kV GELEPHU-SALAKATI	-32	-4	-28	-0.7
	NER	132kV MOTANGA-RANGIA	-23	-8	-15	-0.4
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-67	0	-51	-1.2
	ER	NEPAL IMPORT (FROM BIHAR)	-334	-32	-178	-4.3
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-284	-98	-171	-4.1
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-950	-941	-945	-22.7
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-164	0	-147	-3.5