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: 25th 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 24.04.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-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 24th 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:** **25-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)	52857	59285	42202	23376	2616	180336
Peak Shortage (MW)	2133	0	0	515	0	2648
Energy Met (MU)	1206	1462	1067	520	47	4302
Hydro Gen (MU)	167	33	77	57	10	345
Wind Gen (MU)	14	103	24	-	-	140
Solar Gen (MU)*	97.39	49.05	112.14	5.43	0.40	264
Energy Shortage (MU)	44.64	1.46	1.43	8.50	0.01	56.04
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54567	63744	49866	24186	2681	186915
Time Of Maximum Demand Met (From NLDC SCADA)	20:25	14:58	11:55	23:44	18:55	11:19

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	0.101	1.56	5.60	13.32	20.48	59.98	19.53

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	7534	0	164.6	57.7	-0.7	143	1.45
	Haryana	7678	150	156.7	85.2	0.4	261	10.56
	Rajasthan	13985	124	268.5	81.6	2.7	484	15.50
	Delhi	5194	0	101.7	84.1	-2.5	37	0.00
	UP	18657	1290	396.7	157.8	0.9	939	9.39
	Uttarakhand	1989	0	41.3	26.7	0.5	205	1.46
	HP	1430	0	28.9	12.3	0.1	535	0.00
	J&K(UT) & Ladakh(UT)	2058	0	43.4	30.6	-0.4	149	6.28
	Chandigarh	216	0	4.3	4.5	-0.2	8	0.00
WR	Chhattisgarh	4899	0	115.3	56.7	-0.7	235	0.00
	Gujarat	19412	0	428.6	204.1	2.9	575	0.00
	MP	12000	0	275.3	142.7	-3.5	330	1.46
	Maharashtra	26468	0	583.4	185.5	-2.1	824	0.00
	Goa	661	0	13.3	12.7	0.2	49	0.00
	DD	324	0	7.5	7.3	0.2	28	0.00
	DNH	859	0	20.0	19.8	0.2	52	0.00
	AMNSIL	861	0	19.0	10.7	-0.9	207	0.00
SR	Andhra Pradesh	10984	0	206.1	83.9	2.3	720	1.43
	Telangana	10882	0	220.0	103.2	-1.0	527	0.00
	Karnataka	10804	0	225.8	53.1	0.4	537	0.00
	Kerala	3801	0	75.3	50.5	0.3	268	0.00
	Tamil Nadu	14395	0	331.1	207.9	0.2	581	0.00
	Puducherry	415	0	8.9	9.1	-0.3	48	0.00
ER	Bihar	5804	0	109.6	100.5	-0.6	455	2.42
	DVC	3522	0	76.5	-44.9	-0.8	191	0.00
	Jharkhand	1437	0	30.5	20.5	0.6	269	5.67
	Odisha	5435	0	112.4	47.3	2.6	588	0.41
	West Bengal	9563	0	189.2	66.1	1.5	709	0.00
	Sikkim	78	0	1.5	1.1	0.4	45	0.00
NER	Arunachal Pradesh	131	0	2.2	2.4	-0.2	19	0.00
	Assam	1560	0	27.8	22.3	-1.7	73	0.00
	Manipur	181	0	2.5	2.7	-0.2	14	0.00
	Meghalaya	327	0	5.7	3.5	0.0	30	0.00
	Mizoram	104	0	1.6	1.8	-0.2	5	0.00
	Nagaland	139	0	2.1	2.3	-0.1	6	0.01
	Tripura	288	0	5.0	4.7	-0.1	29	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.4	-9.1	-26.0
Day Peak (MW)	443.0	-641.0	-1107.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	139.5	-172.3	133.3	-97.8	-2.6	0.0
Actual(MU)	147.6	-176.3	124.6	-95.5	-4.1	-3.6
O/D/U/D(MU)	8.1	-3.9	-8.6	2.4	-1.5	-3.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4434	12419	6978	1920	956	26707	48
State Sector	9379	11606	6087	2050	47	29168	52
Total	13813	24024	13065	3970	1003	55875	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	726	1415	606	595	16	3358	76
Lignite	14	13	47	0	0	74	2
Hydro	167	33	78	57	10	345	8
Nuclear	22	33	46	0	0	100	2
Gas, Naptha & Diesel	23	12	15	0	31	81	2
RES (Wind, Solar, Biomass & Others)	138	153	165	5	0	462	10
Total	1089	1659	957	657	57	4420	100

Share of RES in total generation (%)	12.71	9.20	17.21	0.83	0.70	10.44
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.05	13.16	30.12	9.49	18.80	20.52

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.043
Based on State Max Demands	1.092

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: 25-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	0	505	0.0	7.7	-7.7
4	765 kV	SASARAM-FATEHPUR	1	0	477	0.0	9.6	-9.6
5	765 kV	GAYA-BALIA	1	0	384	0.0	7.6	-7.6
6	400 kV	PUSAULI-VARANASI	1	0	98	0.0	1.3	-1.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	143	0.0	2.3	-2.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	882	0.0	13.4	-13.4
9	400 kV	PATNA-BALIA	2	0	442	0.0	9.3	-9.3
10	400 kV	NAUBATPUR-BALIA	2	0	494	0.0	10.4	-10.4
11	400 kV	BIHARSHARIFF-BALIA	2	0	307	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	270	0.0	4.9	-4.9
14	220 kV	SAHUPURI-KARAMNASA	1	0	122	0.0	2.2	-2.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3
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	0.3	72.9	-72.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	13.0	0.0	13.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	527	359	2.9	0.0	2.9
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	1.6	-1.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	5.9	-5.9
5	400 kV	RANCHI-SIPAT	2	57	166	0.0	1.0	-1.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	105	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	83	0	1.2	0.0	1.2
					ER-WR	17.1	10.1	7.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	345	0.0	7.5	-7.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1593	0.0	38.5	-38.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2357	0.0	44.4	-44.4
4	400 kV	TALCHER-I/C	2	335	0	6.6	0.0	6.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	90.4	-90.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	359	0	5.5	0.0	5.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	506	0	8.5	0.0	8.5
3	220 kV	ALIPURDUAR-SALAKATI	2	86	0	1.4	0.0	1.4
					ER-NER	15.4	0.0	15.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	461	0	11.6	0.0	11.6
					NER-NR	11.6	0.0	11.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	221	0.0	5.2	-5.2
2	HVDC	VINDHYACHAL B/B	-	272	0	5.7	0.0	5.7
3	HVDC	MUNDRA-MOHINDERGARH	2	482	0	11.5	0.0	11.5
4	765 kV	GWALIOR-AGRA	2	0	1601	0.0	28.6	-28.6
5	765 kV	GWALIOR-PHAGI	2	0	1315	0.0	24.1	-24.1
6	765 kV	JABALPUR-ORAI	2	0	707	0.0	26.4	-26.4
7	765 kV	GWALIOR-ORAI	1	634	0	12.6	0.0	12.6
8	765 kV	SATNA-ORAI	1	0	1033	0.0	22.4	-22.4
9	765 kV	BANASKANTHA-CHITORGARH	2	860	120	7.8	0.0	7.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2338	0.0	45.1	-45.1
11	400 kV	ZERDA-KANKROLI	1	230	0	2.6	0.0	2.6
12	400 kV	ZERDA -BHINMAL	1	340	119	1.8	0.0	1.8
13	400 kV	VINDHYACHAL -RIHAND	1	974	0	21.2	0.0	21.2
14	400 kV	RAPP-SHUJALPUR	2	272	271	0.9	2.9	-2.0
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	92	0	0.9	0.0	0.9
18	220 kV	MALANPUR-AURAIYA	1	53	0	1.6	0.0	1.6
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	66.7	154.7	-88.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	16.0	-16.0
2	HVDC	RAIGARH-PUGALUR	2	0	2003	0.0	48.0	-48.0
3	765 kV	SOLAPUR-RAICHUR	2	968	1102	2.1	9.1	-7.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2053	0.0	35.1	-35.1
5	400 kV	KOLHAPUR-KUDGI	2	1265	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	120	2.3	0.0	2.3
					WR-SR	26.8	108.2	-81.3

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)	229	140	161	3.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	214	0	189	4.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	0.0
	NER	132kV GELEPHU-SALAKATI	-40	-5	-17	-0.4
	NER	132kV MOTANGA-RANGIA	28	2	15	0.4
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-64	-1.5
	ER	NEPAL IMPORT (FROM BIHAR)	-297	-20	-166	-4.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-266	-99	-152	-3.6
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-941	-936	-940	-22.6