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: 20th 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 19.04.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-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 19th 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:** **20-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)	55099	61403	44188	24662	2662	188014
Peak Shortage (MW)	2769	278	839	583	0	4469
Energy Met (MU)	1261	1518	1091	552	48	4469
Hydro Gen (MU)	186	61	92	61	8	407
Wind Gen (MU)	23	87	48	-	-	158
Solar Gen (MU)*	96.30	50.53	108.53	5.28	0.46	261
Energy Shortage (MU)	51.01	3.18	22.14	11.30	0.37	88.00
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56350	67750	52548	24998	2846	196657
Time Of Maximum Demand Met (From NLDC SCADA)	19:56	15:44	14:48	00:02	18:33	14:52

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	0.261	8.22	12.35	22.22	42.78	55.07	2.14

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	7992	0	169.0	66.9	-2.1	99	2.25
	Haryana	7645	0	159.0	100.7	0.1	240	13.02
	Rajasthan	13001	428	273.6	69.7	-0.1	263	9.32
	Delhi	5628	0	115.6	98.8	-1.6	192	0.00
	UP	19432	1110	417.2	147.2	0.3	328	18.02
	Uttarakhand	1947	0	40.5	26.0	1.1	169	3.73
	HP	1717	5	35.9	16.3	1.1	591	0.02
	J&K(UT) & Ladakh(UT)	2017	300	44.8	28.2	3.0	330	4.65
	Chandigarh	280	0	5.3	5.2	0.2	52	0.00
WR	Chhattisgarh	5285	0	122.4	66.6	0.1	242	2.86
	Gujarat	19786	0	434.8	204.9	2.1	817	0.00
	MP	12592	0	282.0	137.6	2.6	648	0.00
	Maharashtra	27557	0	619.8	212.2	-0.4	573	0.00
	Goa	654	0	14.7	13.6	0.6	64	0.32
	DD	353	0	7.9	7.8	0.1	14	0.00
	DNH	865	0	19.9	20.2	-0.3	143	0.00
	AMNSIL	776	0	16.2	9.9	-0.3	242	0.00
SR	Andhra Pradesh	10847	917	205.4	75.5	0.1	1238	22.14
	Telangana	12021	0	240.8	107.9	-0.1	445	0.00
	Karnataka	10728	0	207.2	58.7	-3.1	460	0.00
	Kerala	4045	0	84.1	53.2	0.0	186	0.00
	Tamil Nadu	15821	0	343.7	197.2	3.3	886	0.00
	Puducherry	429	0	9.5	9.5	-0.1	23	0.00
ER	Bihar	5889	0	120.2	114.7	0.1	270	6.43
	DVC	3607	0	80.0	-46.0	0.7	612	0.00
	Jharkhand	1830	0	35.6	26.8	-0.4	373	2.49
	Odisha	5482	0	118.0	52.5	3.3	635	2.38
	West Bengal	9500	0	196.8	72.7	-0.2	748	0.00
	Sikkim	103	0	1.8	1.5	0.3	54	0.00
NER	Arunachal Pradesh	132	0	2.2	1.9	0.2	17	0.00
	Assam	1687	0	27.7	22.2	0.5	98	0.37
	Manipur	192	0	2.4	2.5	0.0	19	0.00
	Meghalaya	339	0	5.5	2.1	-0.4	32	0.00
	Mizoram	116	0	1.9	1.8	0.0	13	0.00
	Nagaland	143	0	2.3	2.0	0.2	19	0.00
	Tripura	300	0	5.6	5.0	0.3	66	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	10.5	-10.5	-26.5
Day Peak (MW)	572.0	-667.0	-1116.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	129.0	-166.4	108.7	-71.6	0.3	0.0
Actual(MU)	123.5	-162.9	101.5	-64.9	0.9	-1.8
O/D/U/D(MU)	-5.5	3.6	-7.2	6.7	0.6	-1.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3383	10615	6778	910	1020	22706	43
State Sector	9744	12365	5997	2210	47	30363	57
Total	13127	22980	12775	3120	1067	53068	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	764	1446	624	601	17	3452	75
Lignite	17	14	45	0	0	76	2
Hydro	186	61	92	61	8	407	9
Nuclear	25	31	46	0	0	102	2
Gas, Naptha & Diesel	23	17	8	0	27	75	2
RES (Wind, Solar, Biomass & Others)	146	139	188	5	0	478	10
Total	1161	1707	1002	667	53	4590	100

Share of RES in total generation (%)	12.60	8.13	18.73	0.79	0.86	10.42
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.79	13.54	32.43	9.87	15.72	21.52

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.040
Based on State Max Demands	1.072

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: 20-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	105	469	0.0	5.9	-5.9
4	765 kV	SASARAM-FATEHPUR	1	0	416	0.0	8.2	-8.2
5	765 kV	GAYA-BALIA	1	0	546	0.0	9.8	-9.8
6	400 kV	PUSAULI-VARANASI	1	11	54	0.0	0.5	-0.5
7	400 kV	PUSAULI -ALLAHABAD	1	25	113	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	263	717	0.0	7.4	-7.4
9	400 kV	PATNA-BALIA	2	0	431	0.0	6.6	-6.6
10	400 kV	NAUBATPUR-BALIA	2	0	469	0.0	6.9	-6.9
11	400 kV	BIHARSHARIFF-BALIA	2	253	227	0.0	0.7	-0.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	0	0.0	0.0	0.0
13	400 kV	BIHARSHARIFF-VARANASI	2	52	263	0.0	3.2	-3.2
14	220 kV	SAHUPURI-KARAMNASA	1	0	152	0.0	1.9	-1.9
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3
17	132 kV	KARMANASA-SAHUPURI	1	0	25	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	25	0.0	0.0	0.0
					ER-NR	0.4	52.3	-51.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	21.1	0.0	21.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	908	0	13.7	0.0	13.7
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.2	0.0	0.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	6.7	-6.7
5	400 kV	RANCHI-SIPAT	2	148	85	1.1	0.0	1.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	129	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	78	14	0.7	0.0	0.7
					ER-WR	36.8	8.5	28.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	553	0.0	12.2	-12.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1643	0.0	36.0	-36.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2889	0.0	48.8	-48.8
4	400 kV	TALCHER-I/C	2	722	0	9.1	0.0	9.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	97.0	-97.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	312	0	3.8	0.0	3.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	431	0	5.8	0.0	5.8
3	220 kV	ALIPURDUAR-SALAKATI	2	74	13	0.8	0.0	0.8
					ER-NER	10.4	0.0	10.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	467	0	11.5	0.0	11.5
					NER-NR	11.5	0.0	11.5
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	9.8	0.0	9.8
3	HVDC	MUNDRA-MOHINDERGARH	2	500	503	11.7	0.0	11.7
4	765 kV	GWALIOR-AGRA	2	0	1981	0.0	32.6	-32.6
5	765 kV	GWALIOR-PHAGI	2	0	1612	0.0	26.7	-26.7
6	765 kV	JABALPUR-ORAI	2	0	912	0.0	27.4	-27.4
7	765 kV	GWALIOR-ORAI	1	636	0	12.7	0.0	12.7
8	765 kV	SATNA-ORAI	1	0	1093	0.0	22.4	-22.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1454	1109	11.6	0.0	11.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2800	0.0	52.2	-52.2
11	400 kV	ZERDA-KANKROLI	1	369	0	3.7	0.0	3.7
12	400 kV	ZERDA -BHINMAL	1	612	82	5.5	0.0	5.5
13	400 kV	VINDHYACHAL -RIHAND	1	969	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	433	349	0.0	1.3	-1.3
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	116	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	58	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	79.5	162.5	-83.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	515	0.0	12.0	-12.0
2	HVDC	RAIGARH-PUGALUR	2	575	1000	0.0	12.6	-12.6
3	765 kV	SOLAPUR-RAICHUR	2	596	1501	0.0	11.2	-11.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2742	0.0	44.3	-44.3
5	400 kV	KOLHAPUR-KUDGI	2	1665	0	26.1	0.0	26.1
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	2.5	0.0	2.5
					WR-SR	28.6	80.0	-51.4

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)	208	160	180	4.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	312	0	222	5.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	132	0	25	0.6
	NER	132kV GELEPHU-SALAKATI	0	0	0	0.0
	NER	132kV MOTANGA-RANGIA	20	0	8	0.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.5
	ER	NEPAL IMPORT (FROM BIHAR)	-321	-25	-165	-4.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-268	-32	-210	-5.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-950	-941	-946	-22.7
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-166	0	-157	-3.8