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: 19th 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 18.04.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th 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:** **19-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)	56094	61550	43338	25137	2571	188690
Peak Shortage (MW)	2408	58	848	634	0	3948
Energy Met (MU)	1258	1510	1063	553	40	4425
Hydro Gen (MU)	174	50	83	62	7	377
Wind Gen (MU)	35	94	50	-	-	179
Solar Gen (MU)*	97.82	50.96	111.51	5.21	0.41	266
Energy Shortage (MU)	26.51	0.68	22.22	5.76	0.02	55.19
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57462	68200	51595	25443	2592	195698
Time Of Maximum Demand Met (From NLDC SCADA)	20:14	14:49	14:50	21:57	18:32	15:01

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	0.197	5.35	9.79	21.39	36.52	54.83	8.64

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	7650	0	164.4	66.6	-1.1	89	0.38
	Haryana	7466	38	157.3	97.0	1.6	275	7.61
	Rajasthan	13518	0	272.4	62.5	-1.3	347	1.22
	Delhi	5584	0	112.6	97.9	-1.1	250	0.00
	UP	19942	1200	425.4	140.9	0.9	649	8.73
	Uttarakhand	1886	0	39.6	24.9	1.2	212	3.67
	HP	1704	0	34.3	15.6	2.4	450	0.25
	J&K(UT) & Ladakh(UT)	2160	150	46.4	29.6	4.9	444	4.65
	Chandigarh	264	0	5.1	5.1	0.0	35	0.00
WR	Chhattisgarh	5135	0	124.4	64.4	0.6	301	0.49
	Gujarat	20457	0	434.5	206.8	1.2	958	0.00
	MP	12405	0	279.2	139.4	0.3	483	0.00
	Maharashtra	27726	0	613.4	214.5	1.8	644	0.00
	Goa	646	0	14.4	13.8	0.3	41	0.19
	DD	339	0	7.6	7.7	-0.1	19	0.00
	DNH	879	0	20.2	20.2	0.0	61	0.00
	AMNSIL	779	0	16.3	8.9	0.8	269	0.00
SR	Andhra Pradesh	10655	927	203.2	76.8	0.2	1137	22.22
	Telangana	12378	0	242.3	121.6	0.3	487	0.00
	Karnataka	11115	0	209.3	59.9	-2.5	691	0.00
	Kerala	3967	0	82.5	52.7	-0.4	192	0.00
	Tamil Nadu	15001	0	317.1	177.6	1.8	925	0.00
	Puducherry	439	0	8.8	8.9	-0.2	27	0.00
ER	Bihar	6071	0	125.0	118.2	0.3	308	2.79
	DVC	3559	0	78.6	-45.0	0.1	304	0.00
	Jharkhand	1761	0	36.5	28.1	-0.8	314	0.60
	Odisha	5444	0	116.7	56.0	2.0	645	2.38
	West Bengal	9358	0	195.1	75.0	-1.1	445	0.00
	Sikkim	109	0	1.5	1.4	0.1	40	0.00
NER	Arunachal Pradesh	124	0	2.4	2.1	0.2	32	0.00
	Assam	1494	0	21.8	16.6	0.4	94	0.02
	Manipur	189	0	2.5	2.2	0.3	25	0.00
	Meghalaya	327	0	5.3	3.4	-0.1	45	0.00
	Mizoram	105	0	1.8	1.8	-0.2	2	0.00
	Nagaland	119	0	2.1	1.7	0.2	10	0.00
	Tripura	299	0	4.4	4.8	-0.7	53	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	11.3	-10.6	-26.5
Day Peak (MW)	551.0	-627.3	-1114.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	118.6	-160.4	109.5	-62.7	-5.0	0.0
Actual(MU)	115.2	-150.5	96.7	-60.3	-5.6	-4.4
O/D/U/D(MU)	-3.4	9.9	-12.8	2.5	-0.6	-4.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3694	10420	6118	1300	1046	22577	43
State Sector	9144	12748	5765	2810	47	30513	57
Total	12838	23167	11883	4110	1093	53090	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	764	1438	605	594	18	3418	75
Lignite	18	12	44	0	0	74	2
Hydro	174	50	83	62	7	377	8
Nuclear	25	33	46	0	0	103	2
Gas, Naptha & Diesel	20	13	7	0	27	67	1
RES (Wind, Solar, Biomass & Others)	160	146	195	5	0	507	11
Total	1162	1691	980	661	52	4547	100

Share of RES in total generation (%)	13.77	8.57	19.94	0.79	0.79	11.12
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.94	13.43	33.09	10.22	14.36	21.67

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.049
Based on State Max Demands	1.078

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: 19-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	35	463	0.0	5.3	-5.3
4	765 kV	SASARAM-FATEHPUR	1	0	348	0.0	7.4	-7.4
5	765 kV	GAYA-BALIA	1	0	574	0.0	9.5	-9.5
6	400 kV	PUSAULI-VARANASI	1	30	79	0.0	0.2	-0.2
7	400 kV	PUSAULI -ALLAHABAD	1	20	80	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	301	758	0.0	8.1	-8.1
9	400 kV	PATNA-BALIA	2	0	529	0.0	7.4	-7.4
10	400 kV	NAUBATPUR-BALIA	2	0	581	0.0	8.3	-8.3
11	400 kV	BIHARSHARIFF-BALIA	2	253	358	0.0	2.8	-2.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	0	0.0	0.0	0.0
13	400 kV	BIHARSHARIFF-VARANASI	2	33	244	0.0	2.8	-2.8
14	220 kV	SAHUPURI-KARAMNASA	1	1	157	0.0	1.9	-1.9
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	54.4	-54.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	18.9	0.0	18.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	959	0	12.1	0.0	12.1
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.2	0.0	0.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	6.5	-6.5
5	400 kV	RANCHI-SIPAT	2	153	73	0.4	0.0	0.4
6	220 kV	BUDHIPADAR-RAIGARH	1	1	137	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	84	22	1.1	0.0	1.1
					ER-WR	32.6	8.0	24.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	552	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1640	0.0	38.8	-38.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2286	0.0	41.8	-41.8
4	400 kV	TALCHER-I/C	2	1091	0	6.2	0.0	6.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	93.1	-93.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	473	0	6.2	0.0	6.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	662	0	9.5	0.0	9.5
3	220 kV	ALIPURDUAR-SALAKATI	2	124	0	1.7	0.0	1.7
					ER-NER	17.4	0.0	17.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	466	0	11.4	0.0	11.4
					NER-NR	11.4	0.0	11.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	156	0.0	1.7	-1.7
2	HVDC	VINDHYACHAL B/B	-	449	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	503	0.0	11.7	-11.7
4	765 kV	GWALIOR-AGRA	2	0	1979	0.0	29.8	-29.8
5	765 kV	GWALIOR-PHAGI	2	0	1435	0.0	23.4	-23.4
6	765 kV	JABALPUR-ORAI	2	0	871	0.0	26.9	-26.9
7	765 kV	GWALIOR-ORAI	1	757	0	13.8	0.0	13.8
8	765 kV	SATNA-ORAI	1	0	1075	0.0	22.1	-22.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1010	68	10.4	0.0	10.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2815	0.0	53.2	-53.2
11	400 kV	ZERDA-KANKROLI	1	296	0	3.7	0.0	3.7
12	400 kV	ZERDA -BHINMAL	1	619	0	7.0	0.0	7.0
13	400 kV	VINDHYACHAL -RIHAND	1	978	0	22.5	0.0	22.5
14	400 kV	RAPP-SHUJALPUR	2	457	338	0.0	1.2	-1.2
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	98	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	61	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	71.8	169.9	-98.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1009	0.0	15.5	-15.5
2	HVDC	RAIGARH-PUGALUR	2	0	1499	0.0	26.4	-26.4
3	765 kV	SOLAPUR-RAICHUR	2	1050	945	0.0	1.6	-1.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2396	0.0	39.0	-39.0
5	400 kV	KOLHAPUR-KUDGI	2	1612	0	28.8	0.0	28.8
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	118	2.4	0.0	2.4
					WR-SR	31.2	82.4	-51.2

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)	239	0	180	4.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	292	0	263	6.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	59	26	35	0.9
	NER	132kV GELEPHU-SALAKATI	0	0	0	0.0
	NER	132kV MOTANGA-RANGIA	-23	0	-9	-0.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-79	0	-69	-1.7
	ER	NEPAL IMPORT (FROM BIHAR)	-308	-33	-168	-4.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-240	-58	-207	-5.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-953	-944	-948	-22.8
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-161	0	-156	-3.7