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: 15th 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 14.04.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14th 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:** **15-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)	51362	61170	42016	24460	2103	181111
Peak Shortage (MW)	250	0	817	148	0	1215
Energy Met (MU)	1215	1499	1067	553	40	4374
Hydro Gen (MU)	193	46	78	64	9	390
Wind Gen (MU)	22	82	23	-	-	127
Solar Gen (MU)*	91.38	50.26	99.25	5.17	0.23	246
Energy Shortage (MU)	18.67	28.45	21.10	6.68	0.00	74.90
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54736	66024	53822	25038	2395	195953
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	14:35	11:54	23:01	18:30	11:30

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	0.044	0.00	0.57	9.39	9.95	77.44	12.60

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	7774	0	151.5	64.0	-5.5	203	0.25
	Haryana	7420	268	153.4	101.9	-2.1	322	2.48
	Rajasthan	12464	475	258.7	78.6	0.1	280	6.18
	Delhi	5057	0	105.5	91.5	-2.2	112	0.01
	UP	20833	0	421.5	144.5	-2.6	423	4.20
	Uttarakhand	1968	0	41.2	25.9	-0.8	184	0.90
	HP	1608	0	32.7	11.9	1.3	572	0.00
	J&K(UT) & Ladakh(UT)	1964	250	46.3	32.5	0.7	281	4.65
	Chandigarh	223	0	4.7	5.1	-0.4	13	0.00
WR	Chhattisgarh	5229	0	123.9	61.9	-0.9	308	0.64
	Gujarat	20197	0	438.8	218.8	0.6	444	0.00
	MP	12409	0	275.4	142.8	0.3	783	7.26
	Maharashtra	28846	2059	601.0	176.6	4.7	1233	20.48
	Goa	655	0	14.1	13.5	0.2	58	0.07
	DD	346	0	8.0	8.7	-0.7	30	0.00
	DNH	872	0	20.4	21.0	-0.6	46	0.00
	AMNSIL	763	0	16.9	9.6	0.6	293	0.00
SR	Andhra Pradesh	11334	914	213.0	97.0	1.7	852	21.10
	Telangana	12959	0	223.3	86.9	0.1	1045	0.00
	Karnataka	12500	0	236.1	86.3	-1.8	897	0.00
	Kerala	3529	0	73.0	46.9	-0.5	258	0.00
	Tamil Nadu	14095	0	313.2	196.6	-0.8	873	0.00
	Puducherry	380	0	8.0	8.5	-0.5	34	0.00
ER	Bihar	6170	0	122.4	112.0	-0.2	471	4.74
	DVC	3560	0	79.7	-45.8	0.0	255	0.00
	Jharkhand	1748	0	35.7	30.4	-1.6	299	1.94
	Odisha	5685	0	120.6	52.1	-0.2	379	0.00
	West Bengal	9321	0	193.2	69.1	-1.5	241	0.00
	Sikkim	107	0	1.7	1.7	0.0	20	0.00
NER	Arunachal Pradesh	129	0	2.2	2.5	-0.4	49	0.00
	Assam	1359	0	22.1	19.0	-1.7	55	0.00
	Manipur	169	0	2.3	2.6	-0.3	22	0.00
	Meghalaya	289	0	4.9	3.3	-0.1	80	0.00
	Mizoram	114	0	1.7	1.9	-0.3	27	0.00
	Nagaland	138	0	2.3	2.2	0.0	12	0.00
	Tripura	276	0	5.0	4.7	-0.3	33	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	11.6	-8.5	-26.0
Day Peak (MW)	543.0	-575.0	-1112.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	115.8	-153.6	126.7	-88.0	-0.9	0.0
Actual(MU)	101.2	-138.2	121.6	-81.7	-4.1	-1.2
O/D/U/D(MU)	-14.6	15.4	-5.1	6.3	-3.3	-1.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3339	12387	6668	1040	990	24424	46
State Sector	8619	12461	5717	1750	95	28641	54
Total	11958	24847	12385	2790	1085	53065	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	733	1437	620	599	13	3402	76
Lignite	19	6	47	0	0	72	2
Hydro	193	46	78	64	9	390	9
Nuclear	26	33	46	0	0	105	2
Gas, Naptha & Diesel	23	7	9	0	28	67	2
RES (Wind, Solar, Biomass & Others)	143	133	158	5	0	440	10
Total	1138	1662	957	668	50	4476	100

Share of RES in total generation (%)	12.61	8.02	16.48	0.77	0.46	9.83
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.84	12.78	29.45	10.31	18.75	20.89

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.084

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: 15-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	56	498	0.0	6.2	-6.2
4	765 kV	SASARAM-FATEHPUR	1	0	326	0.0	6.8	-6.8
5	765 kV	GAYA-BALIA	1	0	555	0.0	8.8	-8.8
6	400 kV	PUSAULI-VARANASI	1	33	18	0.3	0.0	0.3
7	400 kV	PUSAULI -ALLAHABAD	1	65	69	0.0	0.4	-0.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	123	805	0.0	9.4	-9.4
9	400 kV	PATNA-BALIA	2	0	509	0.0	7.4	-7.4
10	400 kV	NAUBATPUR-BALIA	2	0	554	0.0	8.9	-8.9
11	400 kV	BIHARSHARIFF-BALIA	2	132	336	0.0	3.0	-3.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	0	0.0	0.0	0.0
13	400 kV	BIHARSHARIFF-VARANASI	2	52	246	0.0	3.0	-3.0
14	220 kV	SAHUPURI-KARAMNASA	1	0	170	0.0	2.3	-2.3
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	0.7	56.2	-55.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	15.9	0.0	15.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	960	65	12.9	0.0	12.9
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	0.9	-0.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	5.1	-5.1
5	400 kV	RANCHI-SIPAT	2	177	91	1.4	0.0	1.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	121	0.0	2.1	-2.1
7	220 kV	BUDHIPADAR-KORBA	2	100	0	1.6	0.0	1.6
					ER-WR	31.8	8.0	23.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	553	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1651	0.0	39.7	-39.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2765	0.0	47.3	-47.3
4	400 kV	TALCHER-I/C	2	0	300	0.0	6.0	-6.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	99.4	-99.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	553	0	5.8	0.0	5.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	800	0	8.4	0.0	8.4
3	220 kV	ALIPURDUAR-SALAKATI	2	142	0	1.2	0.0	1.2
					ER-NER	15.4	0.0	15.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	469	0	11.1	0.0	11.1
					NER-NR	11.1	0.0	11.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2	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	0	1950	0.0	25.1	-25.1
5	765 kV	GWALIOR-PHAGI	2	0	1592	0.0	24.3	-24.3
6	765 kV	JABALPUR-ORAI	2	0	943	0.0	25.4	-25.4
7	765 kV	GWALIOR-ORAI	1	681	0	13.4	0.0	13.4
8	765 kV	SATNA-ORAI	1	0	1015	0.0	19.5	-19.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1214	105	15.1	0.0	15.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	2640	0.0	45.9	-45.9
11	400 kV	ZERDA-KANKROLI	1	335	0	3.7	0.0	3.7
12	400 kV	ZERDA -BHINMAL	1	619	0	6.2	0.0	6.2
13	400 kV	VINDHYACHAL -RIHAND	1	965	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	482	382	2.6	3.3	-0.7
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	103	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	72	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	88.8	143.4	-54.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	515	0.0	12.0	-12.0
2	HVDC	RAIGARH-PUGALUR	2	0	2506	0.0	27.4	-27.4
3	765 kV	SOLAPUR-RAICHUR	2	799	1186	1.7	7.3	-5.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2788	0.0	39.1	-39.1
5	400 kV	KOLHAPUR-KUDGI	2	1307	0	22.3	0.0	22.3
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	112	2.2	0.0	2.2
					WR-SR	26.1	85.9	-59.7

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)	226	179	181	4.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	286	0	260	6.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	113	0	29	0.7
	NER	132kV GELEPHU-SALAKATI	11	0	3	0.1
	NER	132kV MOTANGA-RANGIA	-28	0	-15	-0.4
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-0.8
	ER	NEPAL IMPORT (FROM BIHAR)	-235	-26	-123	-2.9
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-291	0	-200	-4.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-948	-894	-944	-22.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-164	0	-142	-3.4