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: 01st May 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 30.04.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-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 30th 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: 01-May-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)	57187	60654	47621	19074	2414	186950
Peak Shortage (MW)	3758	1554	60	444	0	5816
Energy Met (MU)	1371	1513	1161	476	41	4562
Hydro Gen (MU)	206	39	82	54	12	393
Wind Gen (MU)	14	160	94	-	-	268
Solar Gen (MU)*	100.94	54.83	113.31	4.39	0.54	274
Energy Shortage (MU)	88.17	31.43	0.26	7.53	0.43	127.82
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62747	66736	55673	21188	2461	203947
Time Of Maximum Demand Met (From NLDC SCADA)	10:48	15:36	14:46	00:06	18:47	11:42

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	0.054	0.00	2.04	9.13	11.17	72.03	16.80

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	9762	0	205.8	86.0	-1.3	185	2.85
	Haryana	9191	25	179.7	111.7	4.0	510	25.23
	Rajasthan	13678	500	271.2	81.5	3.7	436	33.05
	Delhi	5970	0	121.5	90.1	-1.9	135	0.00
	UP	20829	170	460.3	179.9	2.8	628	20.60
	Uttarakhand	2229	0	47.3	30.1	0.7	167	1.10
	HP	1604	0	34.6	13.9	-0.2	497	0.06
	J&K(UT) & Ladakh(UT)	1932	0	44.8	31.6	-0.9	103	5.28
	Chandigarh	288	0	5.8	6.0	-0.2	22	0.00
WR	Chhattisgarh	5039	0	118.8	56.4	1.9	406	3.50
	Gujarat	21017	0	452.2	201.7	-2.7	653	0.00
	MP	11669	557	262.2	127.8	-0.3	491	27.93
	Maharashtra	27166	0	618.5	196.6	3.9	854	0.00
	Goa	685	0	15.4	14.3	0.7	37	0.00
	DD	347	0	7.9	7.5	0.4	79	0.00
	DNH	865	0	20.2	20.0	0.2	78	0.00
	AMNSIL	840	0	18.2	5.7	-0.4	225	0.00
SR	Andhra Pradesh	11767	0	219.0	81.0	-0.8	681	0.00
	Telangana	10215	0	214.8	84.3	-0.5	483	0.00
	Karnataka	12879	0	244.6	54.9	0.1	906	0.00
	Kerala	4324	20	87.3	58.9	0.5	262	0.26
	Tamil Nadu	17137	0	385.6	220.1	-1.2	695	0.00
	Puducherry	450	0	9.8	10.0	-0.3	29	0.00
ER	Bihar	5406	0	95.9	90.0	0.0	338	0.67
	DVC	3634	0	77.1	-53.5	0.2	478	0.00
	Jharkhand	1451	0	32.2	22.5	0.2	161	4.13
	Odisha	5586	0	116.4	46.0	1.5	605	2.72
	West Bengal	8193	0	152.4	45.6	-2.9	769	0.00
	Sikkim	102	0	1.6	1.4	0.2	42	0.00
NER	Arunachal Pradesh	132	0	2.2	2.6	-0.5	47	0.00
	Assam	1438	0	23.2	18.8	0.0	113	0.00
	Manipur	166	0	2.1	2.2	-0.2	20	0.00
	Meghalaya	298	0	4.7	4.0	-0.1	33	0.43
	Mizoram	107	0	1.6	2.0	-0.4	7	0.00
	Nagaland	133	0	2.0	1.8	0.1	15	0.00
	Tripura	275	0	5.0	4.2	-0.5	31	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.7	-2.0	-25.3
Day Peak (MW)	378.0	-189.3	-1065.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	186.7	-151.7	89.9	-118.1	-6.8	0.0
Actual(MU)	194.7	-154.3	81.1	-112.5	-9.9	-1.0
O/D/U/D(MU)	8.0	-2.6	-8.8	5.6	-3.1	-1.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3549	13075	5628	2175	1125	25552	49
State Sector	8159	11471	4967	1910	47	26553	51
Total	11708	24546	10595	4085	1172	52106	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	768	1370	658	573	15	3384	72
Lignite	21	16	50	0	0	87	2
Hydro	206	39	82	54	12	393	8
Nuclear	25	33	46	0	0	104	2
Gas, Naptha & Diesel	40	23	16	0	28	107	2
RES (Wind, Solar, Biomass & Others)	140	215	240	4	1	601	13
Total	1200	1696	1092	632	56	4675	100

Share of RES in total generation (%)	11.67	12.70	22.00	0.70	0.97	12.85
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.92	16.92	33.71	9.26	22.67	23.47

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.063

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: 01-May-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	-	4	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	84	678	0.0	8.1	-8.1
4	765 kV	SASARAM-FATEHPUR	1	0	441	0.0	8.0	-8.0
5	765 kV	GAYA-BALIA	1	0	472	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	12	74	0.0	0.9	-0.9
7	400 kV	PUSAULI -ALLAHABAD	1	24	109	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1092	0.0	13.7	-13.7
9	400 kV	PATNA-BALIA	2	0	549	0.0	10.0	-10.0
10	400 kV	NAUBATPUR-BALIA	2	0	582	0.0	10.3	-10.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	548	0.0	6.2	-6.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	427	0.0	3.2	-3.2
13	400 kV	BIHARSHARIFF-VARANASI	2	0	358	0.0	4.2	-4.2
14	220 kV	SAHUPURI-KARAMNASA	1	0	139	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	0.4	75.8	-75.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	9.6	0.0	9.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	454	581	0.4	0.0	0.4
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	0.5	-0.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	5.3	-5.3
5	400 kV	RANCHI-SIPAT	2	88	171	0.0	0.1	-0.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	117	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	102	29	0.8	0.0	0.8
					ER-WR	10.8	7.6	3.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	346	0.0	7.5	-7.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1984	0.0	38.6	-38.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2707	0.0	47.8	-47.8
4	400 kV	TALCHER-I/C	2	861	165	6.5	0.0	6.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	93.9	-93.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	608	260	2.9	0.0	2.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	890	408	5.2	0.0	5.2
3	220 kV	ALIPURDUAR-SALAKATI	2	153	82	0.7	0.0	0.7
					ER-NER	8.7	0.0	8.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	460	502	0.0	2.3	-2.3
					NER-NR	0.0	2.3	-2.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3081	0.0	38.0	-38.0
2	HVDC	VINDHYACHAL B/B	-	273	0	7.3	0.0	7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	481	0	11.5	0.0	11.5
4	765 kV	GWALIOR-AGRA	2	0	2027	0.0	28.6	-28.6
5	765 kV	GWALIOR-PHAGI	2	184	1473	0.1	19.9	-19.8
6	765 kV	JABALPUR-ORAI	2	0	893	0.0	25.0	-25.0
7	765 kV	GWALIOR-ORAI	1	626	0	10.9	0.0	10.9
8	765 kV	SATNA-ORAI	1	0	1021	0.0	19.8	-19.8
9	765 kV	BANASKANTHA-CHITORGARH	2	124	592	0.0	4.9	-4.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2084	0.0	38.4	-38.4
11	400 kV	ZERDA-KANKROLI	1	200	23	1.8	0.0	1.8
12	400 kV	ZERDA -BHINMAL	1	362	172	2.1	0.0	2.1
13	400 kV	VINDHYACHAL -RIHAND	1	969	0	21.5	0.0	21.5
14	400 kV	RAPP-SHUJALPUR	2	462	359	1.8	1.4	0.4
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	114	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	80	4	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	59.3	175.9	-116.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	515	0.0	12.0	-12.0
2	HVDC	RAIGARH-PUGALUR	2	966	1001	0.0	7.0	-7.0
3	765 kV	SOLAPUR-RAICHUR	2	815	1490	1.0	11.3	-10.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2178	0.0	33.1	-33.1
5	400 kV	KOLHAPUR-KUDGI	2	1579	0	25.6	0.0	25.6
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	128	2.6	0.0	2.6
					WR-SR	29.2	63.3	-34.1

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)	193	0	142	3.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	192	0	147	3.5
	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	-19	0	-5	-0.1
	NER	132kV MOTANGA-RANGIA	25	2	14	0.3
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-39	-0.9
	ER	NEPAL IMPORT (FROM BIHAR)	-50	0	-14	-0.3
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-61	0	-30	-0.7
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-943	-940	-943	-22.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-122	0	-110	-2.6