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: 04th 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 03.05.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-मई-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 03rd May 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:** **04-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)	58392	59466	44239	19134	2312	183543
Peak Shortage (MW)	943	0	0	0	0	943
Energy Met (MU)	1394	1482	1109	447	43	4475
Hydro Gen (MU)	232	45	81	54	14	426
Wind Gen (MU)	65	149	59	-	-	274
Solar Gen (MU)*	97.76	54.85	110.77	5.04	0.49	269
Energy Shortage (MU)	33.25	8.91	0.00	2.72	0.06	44.94
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62841	66288	53234	21377	2318	199486
Time Of Maximum Demand Met (From NLDC SCADA)	12:00	15:26	14:46	00:00	19:25	11:58

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	0.131	2.44	6.01	14.14	22.59	57.82	19.59

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	9361	0	211.7	98.8	-1.8	238	5.45
	Haryana	9474	0	195.0	136.4	0.1	246	12.59
	Rajasthan	13083	0	270.7	48.0	-8.1	352	0.00
	Delhi	6127	0	116.7	100.7	-8.4	723	0.00
	UP	22123	850	471.3	198.1	2.2	655	9.79
	Uttarakhand	2131	0	46.7	30.3	-0.2	124	0.14
	HP	1573	14	32.4	9.4	-1.8	547	0.00
	J&K(UT) & Ladakh(UT)	2286	0	44.0	33.4	-2.7	57	5.28
	Chandigarh	274	0	5.7	6.1	-0.4	26	0.00
WR	Chhattisgarh	4702	0	111.5	55.5	-1.7	294	0.00
	Gujarat	19959	0	435.2	189.3	-3.0	527	0.03
	MP	12209	0	266.4	134.2	-2.4	1093	8.88
	Maharashtra	27263	0	607.7	208.5	1.2	1152	0.00
	Goa	693	0	14.8	14.5	0.2	62	0.00
	DD	343	0	7.7	7.7	0.0	58	0.00
	DNH	861	0	20.0	20.0	0.0	75	0.00
	AMNSIL	809	0	18.2	10.0	-0.6	331	0.00
SR	Andhra Pradesh	10815	0	202.7	82.6	1.9	1647	0.00
	Telangana	10329	0	206.9	77.8	1.0	1279	0.00
	Karnataka	12250	0	241.1	53.8	-0.6	489	0.00
	Kerala	4128	0	84.1	60.4	0.4	397	0.00
	Tamil Nadu	16627	0	364.3	217.0	3.0	669	0.00
	Puducherry	451	0	9.8	9.8	0.0	32	0.00
ER	Bihar	5222	0	95.8	86.6	-0.8	327	0.93
	DVC	3335	0	75.4	-48.0	-0.1	254	0.00
	Jharkhand	1310	0	29.1	21.6	-1.9	98	0.83
	Odisha	5505	0	108.1	50.5	-1.4	487	0.97
	West Bengal	8230	0	137.3	20.7	-1.0	484	0.00
	Sikkim	108	0	1.8	1.5	0.3	63	0.00
NER	Arunachal Pradesh	125	0	2.2	2.2	-0.9	18	0.00
	Assam	1397	0	25.4	20.6	-1.1	67	0.00
	Manipur	146	0	2.1	2.3	-0.1	25	0.06
	Meghalaya	324	0	5.8	2.7	-0.2	23	0.00
	Mizoram	102	0	1.7	1.9	-0.2	5	0.00
	Nagaland	123	0	2.2	2.0	0.2	7	0.00
	Tripura	226	0	4.0	2.3	-0.5	23	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	9.3	-8.4	-17.0
Day Peak (MW)	524.0	-540.0	-1036.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	205.0	-178.7	126.7	-145.5	-7.5	0.0
Actual(MU)	189.5	-168.8	140.0	-152.4	-11.1	-2.8
O/D/U/D(MU)	-15.5	9.9	13.4	-6.9	-3.7	-2.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3439	12329	7228	2020	725	25741	51
State Sector	7525	11481	4315	1600	47	24967	49
Total	10964	23809	11543	3620	772	50708	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	744	1379	610	581	15	3329	72
Lignite	22	12	44	0	0	77	2
Hydro	232	45	81	54	14	426	9
Nuclear	25	33	46	0	0	104	2
Gas, Naptha & Diesel	30	13	8	0	29	79	2
RES (Wind, Solar, Biomass & Others)	190	204	198	5	0	598	13
Total	1243	1685	986	639	59	4613	100

Share of RES in total generation (%)	15.29	12.11	20.08	0.79	0.83	12.96
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.98	16.72	32.96	9.20	24.22	24.43

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.073

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: 04-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	-	3	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	0	670	0.0	8.9	-8.9
4	765 kV	SASARAM-FATEHPUR	1	0	507	0.0	9.4	-9.4
5	765 kV	GAYA-BALIA	1	0	452	0.0	7.8	-7.8
6	400 kV	PUSAULI-VARANASI	1	22	84	0.0	0.9	-0.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	163	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	767	0.0	11.7	-11.7
9	400 kV	PATNA-BALIA	2	0	540	0.0	9.8	-9.8
10	400 kV	NAUBATPUR-BALIA	2	0	580	0.0	10.2	-10.2
11	400 kV	BIHARSHARIFF-BALIA	2	0	461	0.0	5.1	-5.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	600	0.0	10.9	-10.9
13	400 kV	BIHARSHARIFF-VARANASI	2	0	339	0.0	5.2	-5.2
14	220 kV	SAHUPURI-KARAMNASA	1	0	127	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	84.1	-83.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	19.1	0.0	19.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	252	867	0.0	7.8	-7.8
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	1.7	-1.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	9.3	-9.3
5	400 kV	RANCHI-SIPAT	2	0	241	0.0	3.1	-3.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	143	0.0	2.1	-2.1
7	220 kV	BUDHIPADAR-KORBA	2	132	0	1.2	0.0	1.2
					ER-WR	20.3	24.0	-3.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	660	0.0	9.8	-9.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1984	0.0	44.8	-44.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	3034	0.0	54.2	-54.2
4	400 kV	TALCHER-I/C	2	424	246	0.3	0.0	0.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	108.8	-108.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	203	152	0.1	0.0	0.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	251	275	0.0	0.5	-0.5
3	220 kV	ALIPURDUAR-SALAKATI	2	41	64	0.0	0.3	-0.3
					ER-NER	0.1	0.8	-0.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	12.1	-12.1
					NER-NR	0.0	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2517	0.0	32.1	-32.1
2	HVDC	VINDHYACHAL B/B	-	450	0	8.7	0.0	8.7
3	HVDC	MUNDRA-MOHINDERGARH	2	972	0	16.5	0.0	16.5
4	765 kV	GWALIOR-AGRA	2	0	1792	0.0	27.3	-27.3
5	765 kV	GWALIOR-PHAGI	2	212	1580	0.3	20.0	-19.7
6	765 kV	JABALPUR-ORAI	2	0	795	0.0	23.0	-23.0
7	765 kV	GWALIOR-ORAI	1	655	0	10.8	0.0	10.8
8	765 kV	SATNA-ORAI	1	0	1051	0.0	21.8	-21.8
9	765 kV	BANASKANTHA-CHITORGARH	2	539	367	0.0	0.6	-0.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2331	0.0	42.5	-42.5
11	400 kV	ZERDA-KANKROLI	1	317	0	3.6	0.0	3.6
12	400 kV	ZERDA -BHINMAL	1	570	0	8.0	0.0	8.0
13	400 kV	VINDHYACHAL -RIHAND	1	967	0	21.5	0.0	21.5
14	400 kV	RAPP-SHUJALPUR	2	488	334	3.6	2.0	1.6
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	85	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	53	0	1.5	0.0	1.5
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	75.0	169.1	-94.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	515	0.0	12.0	-12.0
2	HVDC	RAIGARH-PUGALUR	2	0	3010	0.0	45.2	-45.2
3	765 kV	SOLAPUR-RAICHUR	2	586	1245	1.5	9.5	-8.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2133	0.0	36.0	-36.0
5	400 kV	KOLHAPUR-KUDGI	2	1077	0	20.3	0.0	20.3
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	131	2.6	0.0	2.6
					WR-SR	24.3	102.7	-78.4

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)	181	0	152	3.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	261	0	207	5.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	104	0	47	1.1
	NER	132kV GELEPHU-SALAKATI	-6	0	-1	0.0
	NER	132kV MOTANGA-RANGIA	26	14	20	0.5
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-82	0	-71	-1.7
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-458	-157	-277	-6.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-939	-208	-639	-15.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-97	0	-72	-1.7