



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पावर 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: 23th 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., डोंगतेह, 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 22.04.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-अप्रैल-2022 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध 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 22nd 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: 23-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)	53561	60124	44810	22558	2590	183643
Peak Shortage (MW)	4615	906	0	481	0	6002
Energy Met (MU)	1213	1461	1128	531	47	4380
Hydro Gen (MU)	179	45	94	56	7	381
Wind Gen (MU)	10	67	33	-	-	109
Solar Gen (MU)*	100.87	49.45	105.04	5.34	0.28	261
Energy Shortage (MU)	49.81	31.66	1.15	10.15	0.33	93.10
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54554	65673	55043	24019	2691	196996
Time Of Maximum Demand Met (From NLDC SCADA)	11:42	15:23	11:46	00:02	18:14	14:58

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	0.136	0.78	9.77	25.43	35.97	59.04	4.99

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	7802	0	165.9	65.8	-2.0	172	0.00
	Haryana	7156	493	152.7	86.1	-0.8	206	6.72
	Rajasthan	12192	557	252.6	62.9	-0.2	358	26.81
	Delhi	5310	0	98.4	93.1	-1.8	233	0.00
	UP	18842	0	425.8	171.6	0.4	897	5.35
	Uttarakhand	2051	75	40.0	23.6	0.0	251	4.63
	HP	1592	0	32.0	12.3	3.5	547	1.56
	J&K(UT) & Ladakh(UT)	2074	220	40.6	28.3	-0.3	128	4.74
	Chandigarh	239	0	4.8	5.0	-0.2	29	0.00
	Chhattisgarh	4835	0	100.0	46.4	-2.8	376	0.00
WR	Gujarat	20227	0	436.1	205.9	1.1	751	0.00
	MP	11384	0	259.6	140.7	1.9	683	20.42
	Maharashtra	27834	1021	602.8	201.2	0.8	1070	11.23
	Goa	687	0	15.3	14.4	0.4	51	0.01
	DD	351	0	8.0	7.8	0.2	27	0.00
	DNH	870	0	20.3	20.4	-0.1	47	0.00
	AMNSIL	842	0	18.4	12.4	-12.4	244	0.00
SR	Andhra Pradesh	11079	0	208.9	80.6	0.6	558	1.15
	Telangana	11188	0	218.7	109.9	-0.6	632	0.00
	Karnataka	12185	0	236.1	71.5	-1.6	488	0.00
	Kerala	3887	0	87.2	56.9	-0.5	208	0.00
	Tamil Nadu	16866	0	367.9	215.2	5.6	840	0.00
	Puducherry	444	0	9.5	9.5	-0.1	61	0.00
ER	Bihar	5850	0	121.0	109.2	-0.6	282	2.22
	DVC	3766	0	81.2	-45.2	1.0	308	0.00
	Jharkhand	1558	0	31.6	22.7	-0.4	162	7.92
	Odisha	5468	0	111.4	46.1	1.0	440	0.00
	West Bengal	9012	0	184.3	58.2	3.1	620	0.00
NER	Sikkim	106	0	1.8	1.5	0.3	46	0.00
	Arunachal Pradesh	134	0	2.2	2.0	0.2	47	0.00
	Assam	1660	0	29.2	24.0	-0.1	145	0.27
	Manipur	186	0	2.4	2.5	-0.1	26	0.06
	Meghalaya	323	0	5.6	2.9	-0.1	48	0.00
	Mizoram	114	0	1.6	1.8	-0.2	2	0.00
	Nagaland	134	0	2.3	2.2	0.1	18	0.00
	Tripura	264	0	4.1	3.6	-0.3	40	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.6	-8.3	-25.8
Day Peak (MW)	550.0	-601.1	-1089.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	121.9	-179.2	175.2	-119.4	1.5	0.0
Actual(MU)	108.1	-175.9	170.5	-112.3	0.6	-9.1
O/D/U/D(MU)	-13.8	3.3	-4.8	7.1	-0.9	-9.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3804	11633	8638	850	1011	25936	47
State Sector	8809	11951	6167	2050	47	29023	53
Total	12613	23583	14805	2900	1058	54959	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	763	1460	594	624	17	3457	76
Lignite	15	14	46	0	0	75	2
Hvdro	179	45	94	56	7	381	8
Nuclear	22	33	46	0	0	100	2
Gas, Naptha & Diesel	11	14	17	0	28	71	2
RES (Wind, Solar, Biomass & Others)	136	117	176	5	0	435	10
Total	1126	1683	973	685	52	4519	100
Share of RES in total generation (%)	12.11	6.96	18.12	0.78	0.54	9.63	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.96	11.58	32.48	8.94	13.29	20.28	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.058

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: 23-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	72	420	0.0	4.4	-4.4	
4	765 kV	SASARAM-FATEHPUR	1	0	441	0.0	7.8	-7.8	
5	765 kV	GAYA-BALIA	1	0	405	0.0	7.6	-7.6	
6	400 kV	PUSAULI-VARANASI	1	0	90	0.0	1.3	-1.3	
7	400 kV	PUSAULI-ALLAHABAD	1	0	123	0.0	1.4	-1.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	853	0.0	12.1	-12.1	
9	400 kV	PATNA-BALIA	2	0	502	0.0	9.2	-9.2	
10	400 kV	NAUBATPUR-BALIA	2	0	549	0.0	10.0	-10.0	
11	400 kV	BIHARSHARIFF-BALIA	2	90	319	0.0	2.8	-2.8	
12	400 kV	MOTHARI-GORAKHPUR	2	0	0	0.0	0.0	0.0	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	272	0.0	4.3	-4.3	
14	220 kV	SAHUPURI-KARAMNANA	1	0	154	0.0	2.8	-2.8	
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	63.8	-63.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	12.8	0.0	12.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	300	108	1.9	0.0	1.9	
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	4.4	-4.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	3.0	-3.0	
5	400 kV	RANCHI-SIPAT	2	114	121	0.0	0.0	0.0	
6	220 kV	BUDHIPADAR-RAIGARH	1	2	120	0.0	1.5	-1.5	
7	220 kV	BUDHIPADAR-KORBA	2	93	6	1.1	0.0	1.1	
						ER-WR	15.7	8.9	6.9
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	553	0.0	9.6	-9.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2002	0.0	48.1	-48.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2685	0.0	53.5	-53.5	
4	400 kV	TALCHER-I/C	2	0	163	0.0	2.8	-2.8	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	111.3	-111.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	290	0	3.8	0.0	3.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	407	0	5.7	0.0	5.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	73	0	0.9	0.0	0.9	
						ER-NER	10.3	0.0	10.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	466	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	153	0.0	0.0	0.0	
2	HVDC	VINDHYACHAL B/B	-	273	0	4.7	0.0	4.7	
3	HVDC	MUNDRA-MOHINDERGARH	2	491	0	11.7	0.0	11.7	
4	765 kV	GWALIOR-AGRA	2	0	1447	0.0	26.7	-26.7	
5	765 kV	GWALIOR-PHAGI	2	0	1403	0.0	21.1	-21.1	
6	765 kV	JABALPUR-ORAI	2	0	657	0.0	22.3	-22.3	
7	765 kV	GWALIOR-ORAI	1	642	0	12.3	0.0	12.3	
8	765 kV	SATNA-ORAI	1	0	993	0.0	21.0	-21.0	
9	765 kV	BANASKANTHA-CHITORGARH	2	1242	0	15.9	0.0	15.9	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2233	0.0	47.7	-47.7	
11	400 kV	ZERDA-KANKROLI	1	295	0	4.2	0.0	4.2	
12	400 kV	ZERDA-BHINMAL	1	491	74	4.8	0.0	4.8	
13	400 kV	VINDHYACHAL-RIHAND	1	975	0	22.4	0.0	22.4	
14	400 kV	RAPP-SHUJALPUR	2	334	226	2.1	1.4	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	139	0	0.8	0.0	0.8	
18	220 kV	MALANPUR-AURAIYA	1	68	1	1.9	0.0	1.9	
19	132 kV	GWALIOR-SAWAL 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	80.9	140.1	-59.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	24.0	-24.0	
2	HVDC	RAIGARH-PUGALUR	2	0	3011	0.0	47.9	-47.9	
3	765 kV	SOLAPUR-RAICHUR	2	17	1744	0.0	18.9	-18.9	
4	765 kV	WARDHA-NIZAMABAD	2	0	2544	0.0	44.8	-44.8	
5	400 kV	KOLHAPUR-KUDGI	2	1312	0	23.4	0.0	23.4	
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	124	2.5	0.0	2.5	
						WR-SR	25.9	135.5	-109.7

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 MANGDECHHU HEP 4*180MW)	227	129	129	3.1	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*70MW))	283	186	220	5.3	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	60	4	11	0.3	
	NER	132kV GELEPHU-SALAKATI	0	0	0	0.0	
	NER	132kV MOTANGA-RANGIA	25	0	3	0.1	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-57	-1.4	
	ER	NEPAL IMPORT (FROM BIHAR)	-300	-3	-167	-4.0	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-225	-46	-123	-3.0	
ER	BHERAMARA B/B HVDC (BANGLADESH)	-949	-942	-944	-22.7		

BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-140	0	-129	-3.1
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