



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: 23rd Apr 2021

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 22.04.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-अप्रैल-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 2021, is available at the NLDC website.

धन्यवाद,

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting:

23-Apr-2021

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)	46093	52308	43359	22271	2661	166692
Peak Shortage (MW)	630	0	0	0	9	639
Energy Met (MU)	939	1318	1070	451	46	3823
Hydro Gen (MU)	130	42	73	40	8	293
Wind Gen (MU)	23	57	56	-	-	136
Solar Gen (MU)*	53.43	40.14	95.99	4.95	0.21	195
Energy Shortage (MU)	6.41	0.00	0.00	0.00	1.57	7.98
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47292	58715	48983	22685	2902	166769
Time Of Maximum Demand Met (From NLDC SCADA)	19:42	15:15	11:56	20:35	18:46	19:39

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	0.040	0.00	0.10	7.68	7.79	71.28	20.94

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	5588	0	118.4	63.1	-1.9	94	0.00
	Haryana	6951	0	132.5	97.8	-0.2	179	0.00
	Rajasthan	10151	0	210.5	55.0	-2.2	518	0.00
	Delhi	2986	0	64.5	50.0	-1.8	45	0.00
	UP	17500	520	297.9	94.0	-1.0	1058	0.00
	Uttarakhand	1708	0	34.5	19.7	-1.5	129	0.00
	HP	1381	0	26.5	13.7	-1.0	49	0.01
	J&K(UT) & Ladakh(UT)	2439	350	51.3	39.1	0.6	302	6.40
Chandigarh	168	0	3.3	3.8	-0.5	0	0.00	
WR	Chhattisgarh	4351	0	103.3	38.2	-0.3	155	0.00
	Gujarat	18194	0	392.2	109.4	-1.1	587	0.00
	MP	10127	0	227.2	129.3	-1.7	693	0.00
	Maharashtra	24043	0	541.2	187.7	-4.4	623	0.00
	Goa	551	0	11.2	12.0	-1.3	37	0.00
	DD	314	0	7.1	7.2	-0.1	14	0.00
	DNH	777	0	18.1	18.1	0.0	34	0.00
	AMNSIL	764	0	17.2	2.4	0.3	236	0.00
SR	Andhra Pradesh	10027	0	205.0	99.7	0.5	487	0.00
	Telangana	9554	0	193.0	86.5	-1.0	446	0.00
	Karnataka	11655	0	227.0	64.5	-0.1	625	0.00
	Kerala	3848	0	80.8	57.1	0.5	208	0.00
	Tamil Nadu	15827	0	354.4	244.8	0.4	846	0.00
	Puducherry	449	0	9.5	9.6	-0.1	30	0.00
ER	Bihar	5145	0	95.9	88.3	-0.3	396	0.00
	DVC	3136	0	69.0	-52.3	-0.1	568	0.00
	Jharkhand	1577	0	26.2	21.2	-3.2	150	0.00
	Odisha	5407	0	108.3	50.9	-1.5	373	0.00
	West Bengal	7978	0	150.7	29.2	-1.7	250	0.00
	Sikkim	64	0	0.9	1.6	-0.7	0	0.00
NER	Arunachal Pradesh	138	3	2.0	2.0	-0.0	103	0.01
	Assam	1612	3	27.0	24.2	0.9	211	1.50
	Manipur	193	2	2.5	2.6	-0.1	19	0.01
	Meghalaya	335	0	5.7	2.9	0.2	207	0.00
	Mizoram	107	3	1.5	1.4	0.1	28	0.01
	Nagaland	131	7	2.1	1.7	0.4	41	0.01
	Tripura	287	2	4.8	4.4	0.9	97	0.03

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.0	-12.6	-21.1
Day Peak (MW)	375.0	-773.8	-1015.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	145.5	-259.6	178.6	-83.1	18.6	0.0
Actual(MU)	124.9	-266.7	206.3	-92.9	24.3	-4.1
O/D/U/D(MU)	-20.6	-7.1	27.8	-9.8	5.7	-4.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3868	13813	7442	1148	1287	27558	42
State Sector	12935	12168	8275	4945	77	38400	58
Total	16803	25981	15717	6093	1363	65958	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	517	1394	533	537	8	2989	76
Lignite	19	11	39	0	0	69	2
Hydro	130	42	73	40	8	293	7
Nuclear	31	16	43	0	0	90	2
Gas, Naptha & Diesel	37	45	11	0	11	103	3
RES (Wind, Solar, Biomass & Others)	99	98	182	5	0	385	10
Total	833	1606	881	582	27	3929	100

Share of RES in total generation (%)	11.93	6.10	20.71	0.85	0.77	9.80
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.23	9.72	33.85	7.72	30.08	19.53

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.083
Based on State Max Demands	1.112

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.

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 23-Apr-2021

SI 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	-	0	248	0.0	5.9	-5.9	
3	765 kV	GAYA-VARANASI	2	0	460	0.0	7.4	-7.4	
4	765 kV	SASARAM-FATEHPUR	1	53	204	0.0	1.7	-1.7	
5	765 kV	GAYA-BALIA	1	0	350	0.0	5.9	-5.9	
6	400 kV	PUSAULI-VARANASI	1	0	220	0.0	4.3	-4.3	
7	400 kV	PUSAULI -ALLAHABAD	1	0	104	0.0	1.3	-1.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	184	288	0.0	1.4	-1.4	
9	400 kV	PATNA-BALIA	4	0	678	0.0	11.4	-11.4	
10	400 kV	BIHARSHARIFF-BALIA	2	103	145	0.0	1.1	-1.1	
11	400 kV	MOTIHARI-GORAKHPUR	2	18	289	0.0	3.1	-3.1	
12	400 kV	BIHARSHARIFF-VARANASI	2	43	199	0.0	2.5	-2.5	
13	220 kV	PUSAULI-SAHUPURI	1	35	115	0.0	1.0	-1.0	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	46.9	-46.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1749	0	34.1	0.0	34.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	715	748	2.9	0.0	2.9	
3	765 kV	JHARSUGUDA-DURG	2	127	179	0.0	0.3	-0.3	
4	400 kV	JHARSUGUDA-RAIGARH	4	248	181	1.5	0.0	1.5	
5	400 kV	RANCHI-SIPAT	2	206	234	0.4	0.0	0.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	182	0.0	2.9	-2.9	
7	220 kV	BUDHIPADAR-KORBA	2	160	0	2.6	0.0	2.6	
						ER-WR	41.4	3.2	38.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	527	0.0	11.3	-11.3	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1979	0.0	45.0	-45.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3306	0.0	65.2	-65.2	
4	400 kV	TALCHER-I/C	2	372	196	0.0	0.7	-0.7	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	121.5	-121.5
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	4	374	0.0	4.7	-4.7	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	45	568	0.0	7.3	-7.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	122	0.0	1.6	-1.6	
						ER-NER	0.0	13.5	-13.5
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	490	0	10.6	0.0	10.6	
						NER-NR	10.6	0.0	10.6

Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	0	0.0	32.2	-32.2
2	HVDC	VINDHYACHAL B/B	-	166	0	4.8	0.0	4.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1922	0.0	41.9	-41.9
4	765 kV	GWALIOR-AGRA	2	0	2054	0.0	32.0	-32.0
5	765 kV	PHAGI-GWALIOR	2	0	1629	0.0	26.4	-26.4
6	765 kV	JABALPUR-ORAI	2	330	688	0.0	19.6	-19.6
7	765 kV	GWALIOR-ORAI	1	715	0	12.9	0.0	12.9
8	765 kV	SATNA-ORAI	1	0	1295	0.0	25.9	-25.9
9	765 kV	CHITORGARH-BANASKANTHA	2	1568	86	22.6	0.0	22.6
10	400 kV	ZERDA-KANKROLI	1	415	0	6.0	0.0	6.0
11	400 kV	ZERDA -BHINMAL	1	671	0	9.4	0.0	9.4
12	400 kV	VINDHYACHAL -RIHAND	1	973	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	317	239	1.6	1.7	-0.2
14	220 kV	BHANPURA-RANPUR	1	39	35	0.2	0.2	-0.1
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.5	-0.5
16	220 kV	MEHGAON-AURAIYA	1	99	0	0.5	0.0	0.5
17	220 kV	MALANPUR-AURAIYA	1	78	18	1.1	0.0	1.1
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						81.7	180.5	-98.8

Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	18.5	-18.5
2	HVDC	RAIGARH-PUGALUR	2	0	2861	0.0	40.5	-40.5
3	765 kV	SOLAPUR-RAICHUR	2	0	2395	0.0	34.4	-34.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2529	0.0	46.1	-46.1
5	400 kV	KOLHAPUR-KUDGI	2	720	135	7.8	0.0	7.8
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	116	1.9	0.0	1.9
WR-SR						9.7	139.5	-129.8

INTERNATIONAL EXCHANGES						
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	181	120	143	3.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	84	0	74	1.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	55	0	-8	-0.2
	NER	132KV-GEYLEGPHU - SALAKATI	34	7	14	0.3
	NER	132kV Motanga-Rangia	21	1	-3	-0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-79	0	-59	-1.4
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-371	-216	-308	-7.4
	ER	132KV-BIHAR - NEPAL	-324	-9	-156	-3.8
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-866	-514	-751	-18.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	75	0	-64	-1.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	74	0	-63	-1.5