



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: 21st 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 20.04.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-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 20th 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: 21-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)	55114	60045	44625	24548	2513	186845
Peak Shortage (MW)	4205	1576	1462	438	0	7681
Energy Met (MU)	1272	1506	1096	513	42	4430
Hydro Gen (MU)	190	67	94	57	7	415
Wind Gen (MU)	28	84	22	-	-	135
Solar Gen (MU)*	88.54	43.20	114.40	5.14	0.30	252
Energy Shortage (MU)	69.76	19.97	8.70	6.77	0.04	105.24
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56586	66547	52685	24629	2522	197244
Time Of Maximum Demand Met (From NLDC SCADA)	20:44	11:26	14:36	23:45	18:36	11:57

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	0.426	19.99	9.73	16.61	46.33	49.02	4.65

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	8123	0	181.2	72.6	-2.3	40	2.10
	Haryana	7158	1288	154.3	94.9	0.0	230	21.82
	Rajasthan	12911	413	270.2	67.4	-0.5	314	21.18
	Delhi	5652	0	116.0	98.7	-2.8	116	0.00
	UP	19804	1440	428.6	162.1	-2.3	182	13.81
	Uttarakhand	1925	0	38.5	24.2	0.4	274	5.64
	HP	1628	0	33.9	14.9	-0.5	552	0.56
	J&K(UT) & Ladakh(UT)	1905	250	44.1	28.8	0.6	215	4.65
	Chandigarh	281	0	5.4	5.3	0.1	56	0.00
	Chhattisgarh	5118	181	122.1	64.9	0.4	275	3.24
WR	Gujarat	19445	0	433.1	209.0	0.0	722	0.00
	MP	12315	0	271.8	135.3	1.5	1027	13.82
	Maharashtra	28385	419	618.7	206.5	3.8	1074	2.88
	Goa	694	0	14.9	13.9	0.6	69	0.03
	DD	357	0	7.9	8.1	-0.2	14	0.00
	DNH	882	0	20.5	20.6	-0.1	50	0.00
	AMNSIL	788	0	17.3	10.8	-1.2	246	0.00
	Andhra Pradesh	10751	0	201.7	78.2	2.4	565	8.20
	Telangana	11866	0	239.7	107.2	0.4	683	0.00
	Karnataka	10484	0	209.7	59.0	-0.5	999	0.50
SR	Kerala	4299	0	87.4	57.4	0.2	258	0.00
	Tamil Nadu	16136	0	347.8	215.2	5.5	1433	0.00
	Puducherry	458	0	9.5	9.4	0.1	50	0.00
	Bihar	5710	0	100.5	96.6	-1.6	307	1.10
	DVC	4140	0	80.2	-48.8	0.2	345	0.00
	Jharkhand	1639	260	33.7	26.3	-1.5	247	3.11
	Odisha	5807	130	114.0	48.3	5.0	846	2.56
	West Bengal	9077	0	183.5	66.1	-0.6	407	0.00
	Sikkim	99	0	1.7	1.5	0.2	47	0.00
	NER	Arunachal Pradesh	130	0	2.0	2.0	-0.1	21
Assam		1553	0	26.2	22.1	-1.1	53	0.04
Manipur		167	0	2.4	2.3	0.1	9	0.00
Meghalaya		335	0	5.5	2.6	-0.3	48	0.00
Mizoram		112	0	1.7	1.8	-0.2	23	0.00
Nagaland		129	0	2.1	1.8	0.1	12	0.00
Tripura		250	0	2.4	2.1	-0.7	66	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	9.2	-7.3	-19.7
Day Peak (MW)	455.0	-472.0	-1097.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	136.2	-175.1	153.2	-111.7	-2.7	0.0
Actual(MU)	127.6	-177.4	158.9	-108.5	-6.3	-5.6
O/D/U/D(MU)	-8.6	-2.3	5.7	3.2	-3.6	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3495	11275	8358	710	1020	24858	46
State Sector	8229	12635	6207	2560	11	29642	54
Total	11724	23910	14565	3270	1031	54500	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	770	1446	591	607	18	3432	75
Lignite	15	14	46	0	0	76	2
Hydro	190	67	94	57	7	415	9
Nuclear	25	31	46	0	0	102	2
Gas, Naptha & Diesel	25	18	9	0	28	80	2
RES (Wind, Solar, Biomass & Others)	146	129	167	5	0	448	10
Total	1172	1705	952	670	53	4552	100

Share of RES in total generation (%)	12.55	7.55	17.58	0.77	0.56	9.86
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.84	13.29	32.20	9.34	14.45	21.20

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.067

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: 21-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	2	3	0	0.0	0.0	0.0	
3	765 kV	GAYA-VARANASI	2	0	725	0.0	9.0	-9.0	
4	765 kV	SASARAM-FATEHPUR	1	0	482	0.0	9.3	-9.3	
5	765 kV	GAYA-BALIA	1	0	477	0.0	8.0	-8.0	
6	400 kV	PUSAULI-VARANASI	1	0	113	0.0	1.6	-1.6	
7	400 kV	PUSAULI-ALLAHABAD	1	0	165	0.0	1.7	-1.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1084	0.0	13.6	-13.6	
9	400 kV	PATNA-BALIA	2	0	606	0.0	8.8	-8.8	
10	400 kV	NAUBATPUR-BALIA	2	0	661	0.0	10.2	-10.2	
11	400 kV	BIHARSHARIFF-BALIA	2	10	492	0.0	4.5	-4.5	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	0	0.0	0.0	0.0	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	394	0.0	5.0	-5.0	
14	220 kV	SINPUR-BIKARANMANA	1	0	157	0.0	2.6	-2.6	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1	
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	0.5	74.4	-73.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	16.9	0.0	16.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	608	429	6.6	0.0	6.6	
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	2.4	-2.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	7.1	-7.1	
5	400 kV	RANCHI-SIPAT	2	58	202	0.0	0.2	-0.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	156	0.0	2.6	-2.6	
7	220 kV	BUDHIPADAR-KORBA	2	44	59	0.2	0.0	0.2	
						ER-WR	23.7	12.3	11.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	555	0.0	12.5	-12.5	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2055	0.0	41.8	-41.8	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2993	0.0	53.6	-53.6	
4	400 kV	TALCHER-I/C	2	568	207	3.5	0.0	3.5	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	107.8	-107.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	431	0	6.1	0.0	6.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	598	0	8.9	0.0	8.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	92	0	1.4	0.0	1.4	
						ER-NER	16.3	0.0	16.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	467	0	11.6	0.0	11.6	
						NER-NR	11.6	0.0	11.6
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2	0.0	0.0	0.0	
2	HVDC	VINDHYACHAL B/B	2	274	52	1.7	0.0	1.7	
3	HVDC	MUNDRA-MOHINDERGARH	2	490	0	11.7	0.0	11.7	
4	765 kV	GWALIOR-AGRA	2	0	1713	0.0	27.0	-27.0	
5	765 kV	GWALIOR-PHAGI	2	0	1509	0.0	24.2	-24.2	
6	765 kV	JABALPUR-ORAI	2	0	808	0.0	26.8	-26.8	
7	765 kV	GWALIOR-ORAI	1	649	0	13.0	0.0	13.0	
8	765 kV	SATNA-ORAI	1	0	1015	0.0	20.7	-20.7	
9	765 kV	BANASKANTHA-CHITTOORGARH	2	1100	121	11.5	0.0	11.5	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2119	0.0	39.4	-39.4	
11	400 kV	ZERDA-KANKROLI	1	322	0	4.0	0.0	4.0	
12	400 kV	ZERDA-BHINMAL	1	595	0	6.1	0.0	6.1	
13	400 kV	VINDHYACHAL-RIHAND	1	965	0	22.3	0.0	22.3	
14	400 kV	RAPP-SHULIAPUR	2	340	330	1.5	2.3	-0.9	
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	132	0	0.9	0.0	0.9	
18	220 kV	MALANPUR-AURAIYA	1	64	0	2.0	0.0	2.0	
19	132 kV	GWALIOR-SAWALMADHOPUR	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	74.7	140.4	-65.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	15.9	-15.9	
2	HVDC	RAIGARH-PUGALUR	2	0	2505	0.0	37.9	-37.9	
3	765 kV	SOLAPUR-RAICHUR	2	204	2178	0.0	23.1	-23.1	
4	765 kV	WARDHA-NIZAMABAD	2	0	3039	0.0	48.0	-48.0	
5	400 kV	KOLHAPUR-KUDCI	2	1541	0	22.3	0.0	22.3	
6	220 kV	KOLHAPUR-CHIKODI	1	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	130	2.6	0.0	2.6	
						WR-SR	24.9	125.0	-100.2

INTERNATIONAL EXCHANGES							Import(+ve)/Export(-ve) Energy Exchange (MU)
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)		
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	178	0	133	3.2	
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	256	0	233	5.6	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	27	0	5	0.1	
	NER	132kV GELEPHU-SALAKATI	0	0	0	0.0	
	NER	132kV MOTANGA-RANGIA	28	-12	12	0.3	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-65	-1.6	
	ER	NEPAL IMPORT (FROM BIHAR)	-163	-19	-80	-1.9	
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-234	-45	-160	-3.8	
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-945	-203	-730	-17.5	
	NER	132kV COMILLA-SURAJMANJANAGAR 1&2	-152	0	-90	-2.2	