



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: 18th 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 17.04.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th 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: 18-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)	55198	58721	39366	23991	2334	179610
Peak Shortage (MW)	510	0	888	0	0	1398
Energy Met (MU)	1212	1466	1008	548	40	4274
Hydro Gen (MU)	167	32	57	60	6	322
Wind Gen (MU)	32	117	59	-	-	209
Solar Gen (MU)*	101.38	52.40	100.21	5.12	0.35	259
Energy Shortage (MU)	8.50	0.00	21.08	1.70	0.00	31.28
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56628	64546	46954	25273	2431	184781
Time Of Maximum Demand Met (From NLDC SCADA)	22:16	15:32	13:48	22:55	19:09	00:00

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	2.75	8.26	11.02	72.41	16.57

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	7415	0	151.4	63.1	-1.0	65	1.30
	Haryana	7936	288	147.1	95.1	-0.6	145	1.35
	Rajasthan	12901	0	264.7	56.7	-0.3	447	0.00
	Delhi	5146	0	101.7	86.7	-1.4	82	0.00
	UP	21120	260	422.4	151.0	-1.4	636	0.00
	Uttarakhand	1925	0	39.9	25.2	1.5	306	0.77
	HP	1514	0	30.7	14.4	1.7	481	0.43
	J&K(UT) & Ladakh(UT)	2240	150	50.1	33.7	4.2	365	4.65
	Chandigarh	215	0	4.3	4.6	-0.3	9	0.00
WR	Chhattisgarh	5226	0	123.4	65.5	-1.1	209	0.00
	Gujarat	19130	0	418.1	200.5	-2.5	762	0.00
	MP	12285	0	275.9	141.8	-2.6	540	0.00
	Maharashtra	26086	0	590.6	199.5	-0.9	718	0.00
	Goa	629	0	13.8	13.1	0.3	31	0.00
	DD	325	0	7.3	7.7	-0.4	15	0.00
	DNH	854	0	19.9	20.1	-0.2	39	0.00
	AMNSIL	778	0	16.9	11.0	-0.4	290	0.00
	Andhra Pradesh	10295	940	200.7	78.5	-0.3	614	21.08
SR	Telangana	11127	0	235.7	114.1	-0.7	615	0.00
	Karnataka	9918	0	190.5	54.3	-4.2	705	0.00
	Kerala	3596	0	76.2	56.8	-0.3	270	0.00
	Tamil Nadu	13429	0	296.9	174.2	-2.2	606	0.00
	Puducherry	391	0	8.6	8.8	-0.2	35	0.00
ER	Bihar	6255	0	125.2	117.7	0.8	358	1.07
	DVC	3534	0	78.5	-44.2	0.7	211	0.00
	Jharkhand	1787	0	36.0	28.5	-1.8	138	0.50
	Odisha	5560	0	121.1	60.3	0.7	602	0.13
	West Bengal	8985	0	186.4	63.1	-1.4	336	0.00
NER	Sikkim	75	0	1.2	1.3	-0.1	19	0.00
	Arunachal Pradesh	128	0	2.1	2.1	0.0	17	0.00
	Assam	1439	0	21.2	17.3	-1.0	96	0.00
	Manipur	170	0	2.4	2.5	0.0	18	0.00
	Meghalaya	298	0	4.7	3.8	0.1	57	0.00
	Mizoram	104	0	1.7	1.7	0.0	5	0.00
	Nagaland	129	0	2.1	2.1	-0.1	19	0.00
	Tripura	281	0	5.2	4.8	0.1	40	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	9.9	-10.6	-26.4
Day Peak (MW)	547.0	-776.1	-1125.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	118.1	-149.0	108.4	-73.9	-3.7	0.0
Actual(MU)	121.7	-142.8	93.7	-73.6	-4.3	-5.3
O/D/U/D(MU)	3.5	6.2	-14.7	0.3	-0.6	-5.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3904	11352	6118	700	1046	23119	43
State Sector	8559	13349	6285	2510	95	30797	57
Total	12463	24700	12403	3210	1141	53916	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	722	1385	581	603	16	3307	75
Lignite	20	11	44	0	0	75	2
Hydro	167	32	57	60	6	322	7
Nuclear	26	33	45	0	0	104	2
Gas, Naptha & Diesel	19	5	9	0	28	61	1
RES (Wind, Solar, Biomass & Others)	160	170	192	5	0	528	12
Total	1114	1636	929	668	50	4397	100

Share of RES in total generation (%)	14.39	10.42	20.70	0.77	0.70	12.02
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.69	14.40	31.74	9.73	12.08	21.71

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.060
Based on State Max Demands	1.100

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: 18-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	-	4	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	77	589	0.0	7.4	-7.4
4	765 kV	SASARAM-FATEHPUR	1	0	411	0.0	6.1	-6.1
5	765 kV	GAYA-BALIA	1	0	591	0.0	11.3	-11.3
6	400 kV	PUSAULI-VARANASI	1	59	40	0.4	0.0	0.4
7	400 kV	PUSAULI-ALLAHABAD	1	75	126	0.0	0.3	-0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	359	866	0.0	9.5	-9.5
9	400 kV	PATNA-BALIA	2	0	549	0.0	8.4	-8.4
10	400 kV	NAUBATPUR-BALIA	2	0	598	0.0	9.3	-9.3
11	400 kV	BIHARSHARIFF-BALIA	2	173	366	0.0	3.4	-3.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	0	0.0	0.0	0.0
13	400 kV	BIHARSHARIFF-VARANASI	2	18	293	0.0	3.8	-3.8
14	220 kV	SAHIBPUR-KARAMANASA	1	0	140	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	0.5	0.0	0.5
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						0.8	61.7	-60.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	11.8	0.0	11.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	746	60	10.8	0.0	10.8
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	0.2	-0.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	6.8	-6.8
5	400 kV	RANCHI-SIPAT	2	101	89	0.5	0.0	0.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	144	0.0	2.5	-2.5
7	220 kV	BUDHIPADAR-KORBA	2	70	36	0.5	0.0	0.5
ER-WR						23.5	9.4	14.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	557	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1191	0.0	27.6	-27.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2560	0.0	47.0	-47.0
4	400 kV	TALCHER-J/C	2	1136	0	17.1	0.0	17.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
ER-SR						0.0	87.1	-87.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	492	0	5.7	0.0	5.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	695	0	8.3	0.0	8.3
3	220 kV	ALIPURDUAR-SALAKATI	2	141	0	1.5	0.0	1.5
ER-NER						15.5	0.0	15.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	466	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	157	0.0	0.9	-0.9
2	HVDC	VINDHYACHAL B/B	-	449	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	502	11.7	0.0	11.7
4	765 kV	GWALIOR-AGRA	2	0	2060	0.0	29.7	-29.7
5	765 kV	GWALIOR-PHAGI	2	239	1423	0.4	18.6	-18.2
6	765 kV	JABALPUR-ORAI	2	0	906	0.0	26.3	-26.3
7	765 kV	GWALIOR-ORAI	1	660	0	7.8	0.0	7.8
8	765 kV	SATNA-ORAI	1	0	1047	0.0	20.0	-20.0
9	765 kV	BANASKANTHA-CHITORGARH	2	999	112	7.8	0.0	7.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2779	0.0	51.8	-51.8
11	400 kV	ZERDA-KANKROLI	1	244	0	3.5	0.0	3.5
12	400 kV	ZERDA-BHISMAL	1	475	0	6.7	0.0	6.7
13	400 kV	VINDHYACHAL-RIHAND	1	964	0	21.1	0.0	21.1
14	400 kV	RAPP-SIBUALPUR	2	473	308	2.7	2.8	-0.2
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	82	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	54	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						76.0	150.1	-74.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	17.3	-17.3
2	HVDC	RAIGARH-PUGALUR	2	0	3011	0.0	31.3	-31.3
3	765 kV	SOLAPUR-RAICHUR	2	1274	1147	3.6	6.5	-2.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2268	0.0	32.0	-32.0
5	400 kV	KOLHAPUR-KUDGI	2	1534	0	26.7	0.0	26.7
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	2.4	0.0	2.4
WR-SR						32.6	87.1	-54.4
INTERNATIONAL EXCHANGES								
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)		226	0	167	4.0	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)		305	0	233	5.6	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)		46	0	10	0.3	
	NER	132kV GELEPHU-SALAKATI		0	0	0	0.0	
	NER	132kV MOTANGA-RANGIA		-23	0	-2	0.0	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)		-79	0	-61	-1.5	
	ER	NEPAL IMPORT (FROM BIHAR)		-325	-29	-132	-3.2	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2		-372	-99	-248	-6.0	
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)		-954	-938	-946	-22.7	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2		-171	0	-155	-3.7	