



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: 16th March 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 15.03.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-मार्च -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 15th March 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: 16-Mar-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 19:00 hrs; from RLDCs)	51284	59845	47555	22015	2792	183491
Peak Shortage (MW)	1735	15	0	464	0	2214
Energy Met (MU)	1134	1445	1209	462	50	4299
Hydro Gen (MU)	174	59	108	40	11	391
Wind Gen (MU)	31	53	21	-	-	105
Solar Gen (MU)*	94.43	47.68	114.55	5.22	0.43	262
Energy Shortage (MU)	13.63	0.63	0.00	2.28	0.00	16.54
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53669	65022	58046	22384	2837	197012
Time Of Maximum Demand Met (From NLDC SCADA)	11:40	11:18	10:38	18:32	18:02	11:40

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	0.085	0.34	4.11	20.11	24.56	68.02	7.42

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	7952	0	159.5	73.9	0.1	142	3.15
	Haryana	7653	0	146.2	90.4	0.3	254	2.21
	Rajasthan	14154	0	273.0	62.1	1.2	512	2.94
	Delhi	3734	0	73.1	63.9	0.1	180	0.00
	UP	19766	0	360.9	140.5	-0.2	427	0.00
	Uttarakhand	1917	0	38.5	21.2	0.5	133	0.68
	HP	1625	0	29.7	16.2	-0.8	107	0.00
	J&K(UT) & Ladakh(UT)	2325	300	50.0	40.1	-0.5	466	4.65
	Chandigarh	186	0	3.3	3.9	-0.6	4	0.00
	Chhattisgarh	4788	15	109.8	63.0	0.2	599	0.63
WR	Gujarat	18714	0	419.8	225.4	3.2	1167	0.00
	MP	12530	0	269.8	147.5	-0.5	646	0.00
	Maharashtra	27212	0	586.0	174.2	-0.9	845	0.00
	Goa	686	0	14.3	13.1	0.7	108	0.00
	DD	356	0	8.0	7.9	0.1	82	0.00
	DNH	862	0	20.2	20.2	0.0	55	0.00
	AMNSIL	750	0	16.8	10.6	-0.4	224	0.00
SR	Andhra Pradesh	11810	0	224.8	111.1	0.8	525	0.00
	Telangana	12805	0	260.4	119.8	-1.0	669	0.00
	Karnataka	14238	0	280.3	96.8	0.0	807	0.00
	Kerala	4313	0	89.9	59.1	-0.8	202	0.00
	Tamil Nadu	15975	0	345.5	232.9	3.6	703	0.00
	Puducherry	405	0	8.4	8.7	-0.4	33	0.00
	All India	5425	0	98.2	90.8	1.4	340	0.69
ER	Bihar	3410	0	74.1	-54.5	-0.5	206	0.00
	Jharkhand	1558	0	30.8	21.5	0.1	167	1.58
	Odisha	5085	0	103.3	39.6	-1.1	412	0.00
	West Bengal	7810	0	153.7	22.2	-0.3	545	0.00
	Sikkim	107	0	1.6	1.9	-0.3	12	0.00
NER	Arunachal Pradesh	143	0	2.3	2.6	-0.5	13	0.00
	Assam	1697	0	30.1	24.1	0.5	111	0.00
	Manipur	203	0	2.3	2.7	-0.4	14	0.00
	Meghalaya	360	0	6.5	5.3	0.1	75	0.00
	Mizoram	116	0	1.7	1.5	-0.3	4	0.00
	Nagaland	153	0	2.6	2.2	0.3	15	0.00
	Tripura	274	0	4.4	3.6	0.2	35	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	1.0	-11.7	-20.7
Day Peak (MW)	34.0	-727.4	-892.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	134.3	-198.1	224.2	-165.8	5.5	0.0
Actual(MU)	114.4	-188.8	237.6	-170.9	2.8	-4.9
O/D/U/D(MU)	-19.9	9.3	13.4	-5.1	-2.7	-4.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5131	11260	7072	1321	535	25319	39
State Sector	13554	15549	7433	2470	11	39017	61
Total	18686	26808	14505	3791	546	64336	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	634	1441	607	628	13	3324	75
Lignite	31	13	31	0	0	75	2
Hydro	174	59	108	40	11	391	9
Nuclear	32	33	70	0	0	135	3
Gas, Naptha & Diesel	10	16	9	0	29	63	1
RES (Wind, Solar, Biomass & Others)	157	102	165	5	0	429	10
Total	1038	1663	990	673	53	4418	100

Share of RES in total generation (%)	15.10	6.14	16.62	0.78	0.81	9.71
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.96	11.65	34.58	6.68	21.07	21.62

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.071

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: 16-Mar-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	0	830	0.0	12.6	-12.6
4	765 kV	SASARAM-FATEHPUR	1	0	486	0.0	9.9	-9.9
5	765 kV	GAYA-BALIA	1	0	581	0.0	10.0	-10.0
6	400 kV	PUSAULI-VARANASI	1	0	108	0.0	1.6	-1.6
7	400 kV	PUSAULI-ALLAHABAD	1	0	171	0.0	2.3	-2.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	788	0.0	9.8	-9.8
9	400 kV	PATNA-BALIA	4	0	1133	0.0	22.3	-22.3
10	400 kV	BIHARSHARIFF-BALIA	2	0	617	0.0	7.6	-7.6
11	400 kV	MOTIHARI-GORAKHPUR	2	130	221	0.0	0.7	-0.7
12	400 kV	BIHARSHARIFF-VARANASI	2	0	398	0.0	5.7	-5.7
13	220 kV	SAHUPURI-KARAMNANA	1	0	140	0.0	2.0	-2.0
14	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5
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						0.5	84.3	-83.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	826	421	9.2	0.0	9.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	524	963	0.0	3.9	-3.9
3	765 kV	JHARSUGUDA-DURG	2	0	502	0.0	7.7	-7.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	656	0.0	9.8	-9.8
5	400 kV	RANCHI-SIPAT	2	62	312	0.0	3.2	-3.2
6	220 kV	BUDHIPADAR-RAIGARH	1	58	151	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	72	70	0.2	0.0	0.2
ER-WR						9.4	26.7	-17.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	710	0.0	16.2	-16.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2467	0.0	48.7	-48.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	3110	0.0	57.3	-57.3
4	400 kV	TALCHER-I/C	2	0	650	0.0	3.3	-3.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						0.0	122.2	-122.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAOON	2	273	52	2.4	0.0	2.4
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	382	90	4.2	0.0	4.2
3	220 kV	ALIPURDUAR-SALAKATI	2	66	29	0.6	0.0	0.6
ER-NER						7.2	0.0	7.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	487	0	9.7	0.0	9.7
NER-NR						9.7	0.0	9.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	347	0.0	8.3	-8.3
2	HVDC	VINDHYACHAL B/B	-	338	0	5.7	0.0	5.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	252	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	1945	0.0	24.5	-24.5
5	765 kV	GWALIOR-PHAGI	2	0	1510	0.0	23.0	-23.0
6	765 kV	JABALPUR-ORAI	2	0	943	0.0	25.5	-25.5
7	765 kV	GWALIOR-ORAI	2	825	0	13.2	0.0	13.2
8	765 kV	SAINA-ORAI	1	0	1025	0.0	20.0	-20.0
9	765 kV	BANASKANTHA-CHITORGARH	2	2010	0	37.2	0.0	37.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2629	0.0	38.9	-38.9
11	400 kV	ZERDA-KANKROLI	1	429	0	8.1	0.0	8.1
12	400 kV	ZERDA-BHINMAL	1	755	0	12.6	0.0	12.6
13	400 kV	VINDHYACHAL-RIHAND	1	992	0	22.4	0.0	22.4
14	400 kV	RAPP-SHUALPUR	2	344	315	2.9	1.1	1.9
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	133	0	0.9	0.0	0.9
18	220 kV	MALANPUR-AURAIYA	1	77	0	2.1	0.0	2.1
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						105.0	147.5	-42.5
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	5522	0.0	99.4	-99.4
3	765 kV	SOLAPUR-RAICHUR	2	497	1780	0.6	16.7	-16.2
4	765 kV	WARDHA-NIZAMABAD	2	0	3231	0.0	48.7	-48.7
5	400 kV	KOLHAPUR-KUDGI	2	1417	0	22.4	0.0	22.4
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	128	2.4	0.0	2.4
WR-SR						25.3	188.8	-163.5

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)	168	0	120	2.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*70MW))	0	0	0	0.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	0.0
	NER	132kV GELEPHU-SALAKATI	-8	0	-3	-0.1
	NER	132kV MOTANGA-RANGIA	18	2	10	0.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-79	0	-59	-1.4
	ER	NEPAL IMPORT (FROM BIHAR)	-270	-43	-177	-4.3
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-378	25	-251	-6.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-734	-729	-732	-17.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-158	0	-130	-3.1