



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 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 17.03.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th 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: 18-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)	49974	58012	48795	22919	2844	182544
Peak Shortage (MW)	325	0	0	684	0	1009
Energy Met (MU)	1137	1447	1234	489	51	4358
Hydro Gen (MU)	188	83	117	41	10	438
Wind Gen (MU)	26	70	26	-	-	122
Solar Gen (MU)*	95.15	49.79	108.69	5.34	0.44	259
Energy Shortage (MU)	17.06	0.00	0.52	6.60	0.01	24.19
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52806	65696	58751	23240	2876	199267
Time Of Maximum Demand Met (From NLDC SCADA)	12:08	11:34	11:46	18:51	18:34	11:45

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	0.098	1.02	4.81	18.03	23.86	69.00	7.14

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	8254	0	167.1	65.4	-1.0	156	0.00
	Haryana	7480	0	138.3	93.1	0.8	234	8.40
	Rajasthan	13410	330	270.7	56.3	-3.0	340	2.51
	Delhi	3797	0	73.6	62.5	-0.9	192	0.00
	UP	19142	0	369.3	173.4	-1.6	433	0.00
	Uttarakhand	1848	0	36.2	18.2	1.2	146	1.50
	HP	1577	0	29.1	14.6	-1.2	97	0.00
	J&K(UT) & Ladakh(UT)	2537	300	48.9	39.1	-0.5	343	4.65
	Chandigarh	197	0	3.7	4.2	-0.5	50	0.00
	Chhattisgarh	4819	0	113.2	53.7	-1.0	170	0.00
WR	Gujarat	18402	0	402.7	198.9	-0.5	537	0.00
	MP	12467	0	271.8	140.4	2.4	975	0.00
	Maharashtra	27918	0	601.2	180.0	5.8	1085	0.00
	Goa	670	0	14.7	12.9	1.6	131	0.00
	DD	353	0	8.0	7.5	0.5	120	0.00
	DNH	861	0	20.3	19.8	0.5	91	0.00
	AMNSIL	713	0	15.4	10.2	-1.2	197	0.00
SR	Andhra Pradesh	11990	0	228.3	109.5	3.3	1059	0.52
	Telangana	13019	0	267.0	131.5	0.5	1053	0.00
	Karnataka	14797	0	288.0	96.7	1.5	943	0.00
	Kerala	4380	0	89.3	57.6	-1.0	304	0.00
	Tamil Nadu	16402	0	352.8	239.9	2.4	552	0.00
	Puducherry	408	0	8.2	8.6	-0.5	20	0.00
ER	Bihar	5598	0	106.1	98.2	-0.7	510	0.98
	DVC	3492	0	75.2	-52.3	0.0	375	0.04
	Jharkhand	1538	0	30.2	20.9	0.0	186	5.58
	Odisha	5470	0	113.0	42.0	-0.7	409	0.00
	West Bengal	8571	0	163.1	32.4	-1.5	376	0.00
NER	Sikkim	110	0	1.6	1.7	-0.1	33	0.00
	Arunachal Pradesh	141	0	2.5	2.5	-0.2	29	0.00
	Assam	1742	0	30.8	24.5	0.2	104	0.00
	Manipur	197	0	2.7	2.8	-0.1	13	0.00
	Meghalaya	359	0	6.7	5.4	0.2	69	0.00
	Mizoram	109	0	1.7	1.5	-0.3	11	0.00
	Nagaland	155	0	2.6	2.3	0.2	22	0.00
	Tripura	270	0	4.6	4.0	-0.3	30	0.01

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.2	-7.9	-20.7
Day Peak (MW)	318.0	-551.3	-892.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	131.7	-224.8	237.0	-150.6	6.7	0.0
Actual(MU)	111.9	-210.8	243.9	-150.9	3.4	-2.5
O/D/U/D(MU)	-19.8	14.0	6.9	-0.3	-3.3	-2.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5131	12930	7072	2581	535	28249	42
State Sector	13024	15201	9033	1840	11	39109	58
Total	18156	28130	16105	4421	546	67358	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	632	1422	619	625	13	3311	74
Lignite	28	13	30	0	0	71	2
Hvdro	188	83	117	41	10	438	10
Nuclear	32	33	70	0	0	135	3
Gas, Naptha & Diesel	16	14	8	0	31	68	2
RES (Wind, Solar, Biomass & Others)	152	121	165	5	0	443	10
Total	1048	1685	1008	671	54	4466	100
Share of RES in total generation (%)	14.48	7.18	16.35	0.80	0.82	9.93	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.44	14.06	34.86	6.88	18.68	22.75	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.070

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-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	451	0.0	3.8	-3.8	
2	HVDC	PUSAULI B/B	-	4	0	0.0	0.0	0.0	
3	765 kV	GAYA-VARANASI	2	0	536	0.0	6.1	-6.1	
4	765 kV	SASARAM-FATEHPUR	1	0	400	0.0	7.6	-7.6	
5	765 kV	GAYA-BALIA	1	0	480	0.0	8.2	-8.2	
6	400 kV	PUSAULI-VARANASI	1	35	90	0.0	0.8	-0.8	
7	400 kV	PUSAULI-ALLAHABAD	1	15	171	0.0	1.2	-1.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	172	609	0.0	7.4	-7.4	
9	400 kV	PATNA-BALIA	4	0	1004	0.0	21.0	-21.0	
10	400 kV	BIHARSHARIFF-BALIA	2	80	470	0.0	4.3	-4.3	
11	400 kV	MOTIHARI-GORAKHPUR	2	246	135	1.3	0.0	1.3	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	271	0.0	4.1	-4.1	
13	220 kV	SAHUPURI-KARAMNUSA	1	0	126	0.0	1.9	-1.9	
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-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	1.8	66.2	-64.4
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	879	11	8.2	0.0	8.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	704	426	4.2	0.0	4.2	
3	765 kV	JHARSUGUDA-DURG	2	0	593	0.0	9.5	-9.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	542	0.0	8.1	-8.1	
5	400 kV	RANCHI-SIPAT	2	132	175	0.0	0.6	-0.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	161	0.0	2.3	-2.3	
7	220 kV	BUDHIPADAR-KORBA	2	88	26	0.9	0.0	0.9	
						ER-WR	13.3	20.4	-7.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	711	0.0	16.2	-16.2	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1986	0.0	48.0	-48.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2977	0.0	57.3	-57.3	
4	400 kV	TALCHER-I/C	2	0	154	0.0	2.7	-2.7	
5	220 kV	BALIMEL A-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	170	251	0.0	1.7	-1.7	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	204	315	0.0	1.0	-1.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	35	62	0.0	0.3	-0.3	
						ER-NER	0.0	3.0	-3.0
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIAL-AGRA	2	188	404	0.0	0.0	0.0	
						NER-NR	0.0	0.0	0.0
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1004	0.0	24.5	-24.5	
2	HVDC	VINDHYACHAL B/B	-	340	0	9.1	0.0	9.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0	
4	765 kV	GWALIOR-AGRA	2	0	1580	0.0	23.7	-23.7	
5	765 kV	GWALIOR-PHAGI	2	0	1048	0.0	14.1	-14.1	
6	765 kV	JABALPUR-ORAI	2	0	600	0.0	20.1	-20.1	
7	765 kV	GWALIOR-ORAI	1	661	0	12.2	0.0	12.2	
8	765 kV	SAINA-ORAI	1	0	878	0.0	17.7	-17.7	
9	765 kV	BANASKANTHA-CHITORGARH	2	1763	0	29.5	0.0	29.5	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2624	0.0	44.9	-44.9	
11	400 kV	ZERDA-KANKROLI	1	342	0	6.9	0.0	6.9	
12	400 kV	ZERDA-BHIMMAL	1	605	0	11.1	0.0	11.1	
13	400 kV	VINDHYACHAL-RIHAND	1	977	0	22.5	0.0	22.5	
14	400 kV	RAPP-SHILJALPUR	2	470	97	3.4	0.0	3.4	
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	135	0	1.0	0.0	1.0	
18	220 kV	MALANPUR-AURAIYA	1	85	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	97.7	145.1	-47.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	23.1	-23.1	
2	HVDC	RAIGARH-PUGALUR	2	0	6032	0.0	114.5	-114.5	
3	765 kV	SOLAPUR-RAICHUR	2	226	1499	0.0	13.5	-13.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	2910	0.0	46.9	-46.9	
5	400 kV	KOLHAPUR-KUDGI	2	1379	0	25.5	0.0	25.5	
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	123	2.5	0.0	2.5	
						WR-SR	28.0	197.9	-170.0

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)	187	0	131	3.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	144	0	41	1.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	57	0	11	0.3
	NER	132kV GELEPHU-SALAKATI	-7	0	-1	0.0
	NER	132kV MOTANGA-RANGIA	-19	0	-9	-0.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-46	-1.1
	ER	NEPAL IMPORT (FROM BIHAR)	-320	-164	-208	-5.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-154	0	-74	-1.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-732	-728	-731	-17.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-160	0	-133	-3.2