



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: 31st 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 30.03.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-मार्च -2022 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 30th 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: 31-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)	50435	60907	47927	23998	2637	185904
Peak Shortage (MW)	1848	116	773	320	0	3057
Energy Met (MU)	1170	1467	1232	521	47	4437
Hydro Gen (MU)	177	57	99	56	12	401
Wind Gen (MU)	19	75	43	-	-	136
Solar Gen (MU)*	98.76	48.27	108.00	5.06	0.16	260
Energy Shortage (MU)	11.88	2.73	19.84	2.67	0.00	37.12
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53369	63840	59652	24347	2603	198970
Time Of Maximum Demand Met (From NLDC SCADA)	11:00	15:37	10:29	20:20	18:15	11:23

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	0.049	0.00	0.66	14.28	14.94	77.64	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	7405	0	152.7	63.0	-0.7	136	3.00
	Haryana	7048	0	146.0	100.9	1.5	303	2.54
	Rajasthan	12172	0	255.4	50.3	-1.5	297	0.00
	Delhi	4445	0	92.6	80.2	-0.1	208	0.02
	UP	18980	670	402.4	151.6	1.6	520	1.67
	Uttarakhand	1999	0	41.5	26.4	-0.1	120	0.00
	HP	1594	0	31.5	12.3	-0.9	276	0.00
	J&K(UT) & Ladakh(UT)	2054	0	44.1	31.4	2.3	327	4.65
WR	Chandigarh	219	0	4.2	5.0	-0.7	13	0.00
	Chhattisgarh	4881	0	117.9	56.0	-0.4	192	0.00
	Gujarat	18691	0	423.9	202.0	4.6	721	0.00
	MP	12481	0	259.1	140.0	-2.7	388	0.00
	Maharashtra	27975	0	610.5	180.8	-2.2	713	0.00
	Goa	701	0	14.5	14.2	-0.1	80	0.05
	DD	331	0	7.6	7.2	0.4	93	0.00
	DNH	767	116	17.9	16.8	1.1	208	2.68
SR	AMNSIL	752	0	16.0	10.2	-0.4	240	0.00
	Andhra Pradesh	11161	799	215.0	96.0	6.0	1463	19.84
	Telangana	14019	0	276.9	137.7	1.0	896	0.00
	Karnataka	14209	0	272.6	76.2	-0.6	511	0.00
	Kerala	4175	0	87.1	53.7	-0.3	322	0.00
	Tamil Nadu	16859	0	370.2	241.7	-2.0	465	0.00
	Puducherry	458	0	9.8	9.6	0.1	46	0.00
	ER	Bihar	5686	0	113.5	105.1	0.7	343
DVC		3509	0	76.8	-49.7	0.6	316	0.00
Jharkhand		1635	0	33.7	25.4	-0.2	215	1.71
Odisha		5310	0	110.3	51.5	0.7	638	0.00
West Bengal		8828	0	185.4	45.4	0.2	507	0.00
Sikkim		110	0	1.8	1.9	-0.1	32	0.00
NER	Arunachal Pradesh	139	0	2.3	2.6	-0.4	12	0.00
	Assam	1550	0	27.9	22.9	-0.4	104	0.00
	Manipur	193	0	2.7	2.8	-0.1	13	0.00
	Meghalaya	359	0	6.5	4.4	0.0	53	0.00
	Mizoram	110	0	1.7	1.4	-0.2	7	0.00
	Nagaland	138	0	2.3	2.2	0.0	23	0.00
	Tripura	232	0	3.8	3.5	-0.3	25	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	10.6	-7.5	-25.8
Day Peak (MW)	723.0	102.9	-1108.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	103.8	-199.4	206.9	-112.5	1.1	0.0
Actual(MU)	91.3	-197.2	206.3	-103.8	-1.3	-4.8
O/D/U/D(MU)	-12.5	2.2	-0.6	8.6	-2.4	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3099	11898	6568	1621	535	23721	42
State Sector	10324	13466	6232	3088	11	33120	58
Total	13423	25363	12800	4709	546	56841	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	701	1446	657	610	13	3427	75
Lignite	19	13	43	0	0	75	2
Hvdro	177	57	99	56	12	401	9
Nuclear	32	33	47	0	0	111	2
Gas, Naptha & Diesel	22	18	9	0	29	78	2
RES (Wind, Solar, Biomass & Others)	151	124	184	5	0	465	10
Total	1104	1691	1039	671	54	4558	100

Share of RES in total generation (%)	13.72	7.36	17.73	0.75	0.29	10.21
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.66	12.67	31.74	9.11	22.58	21.45

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.061

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: 31-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	145	251	0.0	0.7	-0.7
4	765 kV	SASARAM-FATEHPUR	1	0	278	0.0	4.8	-4.8
5	765 kV	GAYA-BALIA	1	0	611	0.0	12.4	-12.4
6	400 kV	PUSAULI-VARANASI	1	1	80	0.0	0.7	-0.7
7	400 kV	PUSAULI-ALLAHABAD	1	45	64	0.0	0.2	-0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	233	358	0.0	4.4	-4.4
9	400 kV	PATNA-BALIA	2	0	558	0.0	11.0	-11.0
10	400 kV	NAUBATPUR-BALIA	2	0	620	0.0	11.8	-11.8
11	400 kV	BHARSHARIFF-BALIA	2	90	251	0.0	2.2	-2.2
12	400 kV	MOTIHARI-GORAKHPUR	2	318	0	3.8	0.0	3.8
13	400 kV	BHARSHARIFF-VARANASI	2	69	155	0.0	1.0	-1.0
14	220 kV	SAHUPUR-KARMANASA	1	0	146	0.0	2.5	-2.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.4	-0.4
18	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0
ER-NR						4.2	52.1	-47.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	742	0	14.8	0.0	14.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1022	46	14.0	0.0	14.0
3	765 kV	JHARSUGUDA-DURG	2	114	246	0.0	1.8	-1.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	299	0.0	4.2	-4.2
5	400 kV	RANCHI-SIPAT	2	188	58	2.4	0.0	2.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	131	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	205	0	2.8	0.0	2.8
ER-WR						34.0	8.0	26.0
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	2477	0.0	46.6	-46.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	3018	0.0	56.7	-56.7
4	400 kV	TALCHER-JC	2	421	646	0.0	1.4	-1.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						0.0	119.5	-119.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	106	190	0.1	2.4	-2.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	89	346	0.0	4.1	-4.1
3	220 kV	ALIPURDUAR-SALAKATI	2	11	54	0.0	0.7	-0.7
ER-NER						0.1	7.2	-7.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	353	0.0	8.5	-8.5
NER-NR						0.0	8.5	-8.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	488	0.0	1.8	-1.8
2	HVDC	VINDHYACHAL B/B	-	445	0	12.2	0.0	12.2
3	HVDC	MUNDA-MOHINDERGARH	2	0	251	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	1388	0.0	18.5	-18.5
5	765 kV	GWALIOR-PHAGI	2	47	1182	0.0	17.2	-17.2
6	765 kV	JABALPUR-ORAI	2	0	649	0.0	21.5	-21.5
7	765 kV	GWALIOR-ORAI	1	717	0	11.9	0.0	11.9
8	765 kV	SATNA-ORAI	1	0	829	0.0	17.6	-17.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1587	0	27.2	0.0	27.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2697	0.0	49.9	-49.9
11	400 kV	ZERDA-KANKROLI	1	370	0	6.8	0.0	6.8
12	400 kV	ZERDA-BHINMAL	1	594	0	9.3	0.0	9.3
13	400 kV	VINDHYACHAL-RIHAND	1	974	0	22.0	0.0	22.0
14	400 kV	KAPP-SHUALPUR	2	471	48	3.9	0.1	3.8
15	220 kV	BHANPURA-RANPUR	1	100	0	0.6	0.0	0.6
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0
17	220 kV	MEHGAON-AURAIYA	1	127	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	85	0	1.8	0.0	1.8
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAIGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						96.5	132.7	-36.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	16.8	-16.8
2	HVDC	RAIGARH-PUGALUR	2	0	4015	0.0	66.5	-66.5
3	765 kV	SOLAPUR-RAICHUR	2	126	2070	0.0	22.9	-22.9
4	765 kV	WARDHA-NIZAMABAD	2	0	3342	0.0	51.1	-51.1
5	400 kV	KOLHAPUR-KUDGI	2	1345	0	20.0	0.0	20.0
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	134	2.6	0.0	2.6
WR-SR						22.6	157.3	-134.7
INTERNATIONAL EXCHANGES								
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)		
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	272	96	148	3.6		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*150MW)	383	189	260	6.3		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	83	29	47	1.1		
	NER	132kV GELEPHU-SALAKATI	9	1	5	0.1		
	NER	132kV MOTANGA-RANGIA	18	2	11	0.3		
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-61	-1.5		
	ER	NEPAL IMPORT (FROM BIHAR)	356	13	-174	-4.2		
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-179	0	-75	-1.8		
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-934	-917	-927	-22.2		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-174	0	-147	-3.5		