



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: 31th Jan 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 30.01.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-जनवरी-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 30th January 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-Jan-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)	51157	53973	39330	20721	2575	167756
Peak Shortage (MW)	250	0	0	180	0	430
Energy Met (MU)	1024	1272	978	403	46	3723
Hydro Gen (MU)	91	31	85	24	9	240
Wind Gen (MU)	5	29	28	-	-	62
Solar Gen (MU)*	79.96	47.22	107.50	5.17	0.36	240
Energy Shortage (MU)	4.65	0.00	0.00	2.66	0.00	7.31
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52527	62717	50187	21200	2656	184867
Time Of Maximum Demand Met (From NLDC SCADA)	10:45	11:00	10:23	19:15	18:08	10:51

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	0.031	0.00	0.37	3.21	3.58	80.90	15.52

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	6310	0	111.5	41.9	-1.3	109	0.00
	Haryana	5632	0	113.6	62.7	1.6	260	0.00
	Rajasthan	15572	0	276.8	67.4	-0.3	374	0.00
	Delhi	4341	0	68.6	57.2	-1.3	207	0.00
	UP	18018	0	312.9	72.6	-2.1	303	0.00
	Uttarakhand	2227	0	41.3	30.5	0.9	278	0.00
	HP	1834	0	31.9	24.3	-0.2	301	0.00
	J&K(UT) & Ladakh(UT)	3256	250	63.7	56.2	2.3	629	4.65
WR	Chandigarh	210	0	3.6	3.8	-0.3	8	0.00
	Chhattisgarh	4209	0	89.8	31.7	-0.1	224	0.00
	Gujarat	16657	0	347.5	207.7	-0.6	860	0.00
	MP	15302	0	289.6	178.6	-1.3	355	0.00
	Maharashtra	24647	0	489.3	148.0	-2.3	502	0.00
	Goa	521	0	10.8	10.2	0.4	58	0.00
	DD	315	0	7.3	6.9	0.4	32	0.00
	DNH	820	0	19.2	19.2	0.0	40	0.00
SR	AMNSIL	837	0	18.8	9.6	-0.1	269	0.00
	Andhra Pradesh	10014	0	184.2	86.6	0.7	539	0.00
	Telangana	11377	0	203.5	70.3	0.5	722	0.00
	Karnataka	13100	0	228.8	78.9	0.3	807	0.00
	Kerala	3477	0	70.1	47.9	-0.2	235	0.00
	Tamil Nadu	13557	0	283.9	156.2	-1.7	483	0.00
ER	Puducherry	331	0	7.0	7.2	-0.2	64	0.00
	Bihar	5199	0	87.7	77.5	0.5	335	1.54
	DVC	3876	0	70.4	-41.9	-1.0	218	0.00
	Jharkhand	1620	0	30.8	21.5	-1.2	161	1.12
	Odisha	5420	0	95.4	38.4	-0.9	420	0.00
	West Bengal	6221	0	117.1	1.5	0.8	421	0.00
NER	Sikkim	103	0	1.7	1.9	-0.2	10	0.00
	Arunachal Pradesh	155	0	2.3	2.4	-0.2	86	0.00
	Assam	1401	0	24.9	18.7	0.5	106	0.00
	Manipur	244	0	3.5	3.5	0.1	33	0.00
	Meghalaya	378	0	7.5	6.0	0.2	44	0.00
	Mizoram	140	0	1.9	1.8	-0.4	10	0.00
	Nagaland	142	0	2.6	2.0	0.5	26	0.00
	Tripura	235	0	3.5	2.1	-0.1	37	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.8	-11.4	-20.0
Day Peak (MW)	-298.0	-644.9	-863.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	144.5	-91.6	89.2	-148.2	6.2	0.0
Actual(MU)	121.5	-78.5	96.7	-149.5	6.3	-3.7
O/D/U/D(MU)	-23.0	13.1	7.5	-1.4	0.0	-3.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5953	16258	7212	2156	889	32467	46
State Sector	7215	18056	9208	3860	11	38350	54
Total	13168	34313	16420	6016	900	70817	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	643	1214	522	563	6	2948	77
Lignite	27	12	43	0	0	82	2
Hydro	91	31	85	24	9	240	6
Nuclear	28	21	70	0	0	119	3
Gas, Naptha & Diesel	15	12	8	0	29	64	2
RES (Wind, Solar, Biomass & Others)	111	77	166	5	0	360	9
Total	916	1367	893	592	44	3812	100
Share of RES in total generation (%)	12.13	5.67	18.57	0.87	0.81	9.44	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.16	9.46	35.89	4.85	21.14	18.84	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.069

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-Jan-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	-	3	0	0.0	0.0	0.0	
3	765 kV	GAYA-VARANASI	2	0	676	0.0	8.8	-8.8	
4	765 kV	SASARAM-FATEHPUR	1	0	454	0.0	8.0	-8.0	
5	765 kV	GAYA-BALIA	1	0	606	0.0	8.3	-8.3	
6	400 kV	PUSAULI-VARANASI	1	30	74	0.0	0.8	-0.8	
7	400 kV	PUSAULI-ALLAHABAD	1	10	109	0.0	0.9	-0.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	778	0.0	8.5	-8.5	
9	400 kV	PATNA-BALIA	4	0	1345	0.0	19.8	-19.8	
10	400 kV	BIHARSHARIFF-BALIA	2	4	327	0.0	3.9	-3.9	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	492	0.0	7.0	-7.0	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	330	0.0	5.2	-5.2	
13	220 kV	SAHUPURI-KARMANASA	1	0	120	0.0	1.5	-1.5	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.1	0.0	0.1	
15	132 kV	GARWAIH-RIHAND	1	25	0	0.4	0.0	0.4	
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	0.4	72.4	-72.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	246	622	0.0	3.5	-3.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	151	719	0.0	8.0	-8.0	
3	765 kV	JHARSUGUDA-DURG	2	12	235	0.0	2.8	-2.8	
4	400 kV	JHARSUGUDA-RAIGARH	4	55	326	0.0	4.0	-4.0	
5	400 kV	RANCHI-SIPAT	2	89	205	0.0	1.9	-1.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	129	0.0	2.0	-2.0	
7	220 kV	BUDHIPADAR-KORBA	2	174	0	2.5	0.0	2.5	
						ER-WR	2.5	22.2	-19.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	493	0.0	9.9	-9.9	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1992	0.0	45.4	-45.4	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2282	0.0	43.8	-43.8	
4	400 kV	TALCHER-I/C	2	0	681	0.0	8.8	-8.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	99.2	-99.2	
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	183	51	1.1	0.0	1.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	325	40	3.0	0.0	3.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	60	11	0.5	0.0	0.5	
						ER-NER	4.6	0.0	4.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	492	0	11.1	0.0	11.1	
						NER-NR	11.1	0.0	11.1
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2522	0.0	31.3	-31.3	
2	HVDC	VINDHYACHAL B/B	-	449	0	11.5	0.0	11.5	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	128	0.0	3.1	-3.1	
4	765 kV	GWALIOR-AGRA	2	110	2213	0.0	23.7	-23.7	
5	765 kV	GWALIOR-PHAGI	2	0	1821	0.0	30.0	-30.0	
6	765 kV	JABALPUR-ORAI	2	0	818	0.0	21.3	-21.3	
7	765 kV	GWALIOR-ORAI	1	1050	0	19.1	0.0	19.1	
8	765 kV	SATNA-ORAI	1	0	884	0.0	16.6	-16.6	
9	765 kV	BANASKANTHA-CHITORGARH	2	2093	0	36.1	0.0	36.1	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2165	0.0	29.7	-29.7	
11	400 kV	ZERDA-KANKROLI	1	387	0	6.7	0.0	6.7	
12	400 kV	ZERDA -BHINMAL	1	541	0	7.1	0.0	7.1	
13	400 kV	VINDHYACHAL -RIHAND	1	489	0	10.9	0.0	10.9	
14	400 kV	RAPP-SHULPUR	2	387	367	1.9	1.6	0.3	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7	
17	220 kV	MEHGAON-AURAIYA	1	145	0	1.4	0.0	1.4	
18	220 kV	MALANPUR-AURAIYA	1	101	0	2.2	0.0	2.2	
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	96.8	159.0	-62.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	317	0	7.6	0.0	7.6	
2	HVDC	RAIGARH-PUGALUR	2	0	1500	0.0	17.9	-17.9	
3	765 kV	SOLAPUR-RAICHUR	2	1180	1120	3.6	10.0	-6.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	2171	0.0	35.6	-35.6	
5	400 kV	KOLHAPUR-KUDGI	2	1019	0	15.1	0.0	15.1	
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	1	66	0.9	0.9	0.0	
						WR-SR	27.2	63.5	-36.3

INTERNATIONAL EXCHANGES			Import(+ve)/Export(-ve) Energy Exchange (MU)			
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)	161	0	13	0.3
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	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	15	2	9	0.2
	NER	132kV MOTANGA-RANGIA	-17	0	-5	-0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-81	0	-72	-1.7
	ER	NEPAL IMPORT (FROM BHAR)	-253	0	-141	-3.4
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-311	0	-263	-6.3
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-750	-705	-739	-17.7
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-113	0	-95	-2.3