



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: 22nd Feb 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 21.02.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-फरवरी-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 21st February 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: 22-Feb-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)	52122	55506	45552	20704	2554	176438
Peak Shortage (MW)	250	0	0	285	0	535
Energy Met (MU)	1039	1337	1112	405	43	3936
Hydro Gen (MU)	111	59	96	26	9	302
Wind Gen (MU)	20	80	21	-	-	121
Solar Gen (MU)*	87.15	48.89	110.42	5.26	0.34	252
Energy Shortage (MU)	4.71	0.00	0.00	1.57	0.00	6.28
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53193	63662	55398	21160	2634	191680
Time Of Maximum Demand Met (From NLDC SCADA)	18:53	10:54	09:57	18:31	17:55	10:47

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	0.051	0.00	0.94	13.23	14.17	72.67	13.17

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	7143	0	134.1	43.4	-0.3	127	0.00
	Haryana	7136	0	129.2	76.2	2.0	267	0.00
	Rajasthan	15141	0	277.0	73.3	-1.6	454	0.00
	Delhi	3705	0	61.4	51.7	-2.7	400	0.00
	UP	17738	0	306.0	86.5	-1.0	415	0.00
	Uttarakhand	2113	0	39.3	26.4	0.5	174	0.06
	HP	1897	0	32.6	24.4	0.5	249	0.00
	J&K(UT) & Ladakh(UT)	2904	250	56.2	52.9	-1.8	230	4.65
WR	Chandigarh	209	0	3.3	3.8	-0.5	9	0.00
	Chhattisgarh	4438	0	97.5	29.1	-0.1	222	0.00
	Gujarat	17456	0	364.6	197.9	4.8	995	0.00
	MP	14383	0	288.3	165.8	-1.7	680	0.00
	Maharashtra	25674	0	529.6	168.4	-0.1	840	0.00
	Goa	591	0	11.8	11.5	0.0	38	0.00
	DD	340	0	7.5	7.0	0.5	59	0.00
	DNH	847	0	19.5	19.3	0.2	72	0.00
SR	AMNSIL	902	0	18.3	3.5	-0.4	250	0.00
	Andhra Pradesh	10871	0	205.7	86.9	1.4	510	0.00
	Telangana	11914	0	225.1	85.0	0.9	444	0.00
	Karnataka	14311	0	257.4	96.4	-1.3	635	0.00
	Kerala	4052	0	82.9	57.6	-0.3	191	0.00
	Tamil Nadu	15819	0	332.9	202.4	2.2	793	0.00
	Puducherry	385	0	7.8	7.8	-0.1	45	0.00
	ER	Bihar	4842	0	84.4	71.1	1.1	363
DVC		3272	0	70.3	-45.8	-0.9	287	0.00
Jharkhand		1543	0	29.7	20.2	-0.8	194	1.38
Odisha		5606	0	109.2	48.1	-1.4	439	0.00
West Bengal		6391	0	109.5	-10.2	-0.2	378	0.00
Sikkim		120	0	1.8	2.0	-0.3	40	0.00
NER	Arunachal Pradesh	150	0	2.2	2.8	-0.6	20	0.00
	Assam	1462	0	22.9	17.0	-1.0	98	0.00
	Manipur	233	0	3.0	3.2	-0.2	31	0.00
	Meghalaya	368	0	7.2	5.8	0.1	61	0.00
	Mizoram	128	0	1.8	1.9	-0.3	13	0.00
	Nagaland	135	0	2.3	2.0	0.3	16	0.00
	Tripura	219	0	3.8	1.4	-0.3	17	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.1	-10.5	-18.9
Day Peak (MW)	-281.0	-583.1	-845.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	160.9	-163.1	148.7	-149.0	2.5	0.0
Actual(MU)	144.4	-151.3	159.6	-156.4	-1.7	-5.4
O/D/U/D(MU)	-16.5	11.9	11.0	-7.5	-4.3	-5.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7705	13530	6492	3081	732	31540	45
State Sector	10269	18029	7768	2460	11	38537	55
Total	17974	31558	14260	5541	743	70076	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	597	1275	583	585	15	3055	75
Lignite	25	15	45	0	0	85	2
Hvdro	111	59	96	26	9	302	7
Nuclear	33	20	66	0	0	119	3
Gas, Naptha & Diesel	14	12	9	0	25	60	1
RES (Wind, Solar, Biomass & Others)	135	130	164	5	0	435	11
Total	916	1511	963	617	49	4056	100

Share of RES in total generation (%)	14.74	8.62	17.00	0.85	0.69	10.71
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.47	13.89	33.82	5.14	18.58	21.09

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.067

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: 22-Feb-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	746	0.0	10.2	-10.2	
4	765 kV	SASARAM-FATEHPUR	1	0	491	0.0	8.9	-8.9	
5	765 kV	GAYA-BALIA	1	0	638	0.0	10.5	-10.5	
6	400 kV	PUSAULI-VARANASI	1	25	65	0.0	0.8	-0.8	
7	400 kV	PUSAULI-ALLAHABAD	1	0	136	0.0	1.5	-1.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	773	0.0	8.4	-8.4	
9	400 kV	PATNA-BALIA	4	0	858	0.0	15.2	-15.2	
10	400 kV	BIHARSHARIFF-BALIA	2	0	617	0.0	7.6	-7.6	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	506	0.0	7.9	-7.9	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	384	0.0	5.7	-5.7	
13	220 kV	SAHUPURI-KARMANASA	1	0	112	0.0	1.4	-1.4	
14	132 kV	SONENAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-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-CHANDAUULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	78.0	-77.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	432	301	2.4	0.0	2.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	55	874	0.0	10.1	-10.1	
3	765 kV	JHARSUGUDA-DURG	2	41	463	0.0	4.8	-4.8	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	470	0.0	6.1	-6.1	
5	400 kV	RANCHI-SIPAT	2	3	254	0.0	2.4	-2.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	176	0.0	2.4	-2.4	
7	220 kV	BUDHIPADAR-KORBA	2	89	1	1.1	0.0	1.1	
						ER-WR	3.5	25.7	-22.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	441	0.0	9.9	-9.9	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	48.1	-48.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2758	0.0	55.3	-55.3	
4	400 kV	TALCHER/JC	2	0	235	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	113.3	-113.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	358	0	4.1	0.0	4.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	435	0	6.3	0.0	6.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	87	0	1.2	0.0	1.2	
						ER-NER	11.6	0.0	11.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	470	0	11.5	0.0	11.5	
						NER-NR	11.5	0.0	11.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1509	0.0	30.8	-30.8	
2	HVDC	VINDHYACHAL B/B	-	318	0	6.2	0.0	6.2	
3	HVDC	MUNDRU-MOHENDERGARH	2	0	251	0.0	6.2	-6.2	
4	765 kV	GWALIOR-AGRA	2	0	1352	0.0	17.1	-17.1	
5	765 kV	GWALIOR-PHAGI	2	0	1959	0.0	28.7	-28.7	
6	765 kV	JABALPUR-ORAI	2	0	797	0.0	21.6	-21.6	
7	765 kV	GWALIOR-ORAI	1	804	0	14.7	0.0	14.7	
8	765 kV	SATNA-ORAI	1	0	944	0.0	18.1	-18.1	
9	765 kV	BANASKANTHA-CHITORGARH	2	1614	0	26.9	0.0	26.9	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2086	0.0	32.7	-32.7	
11	400 kV	ZERDA-KANKROLI	1	357	0	5.6	0.0	5.6	
12	400 kV	ZERDA-BHINMAL	1	565	0	7.2	0.0	7.2	
13	400 kV	VINDHYACHAL-RIHAND	1	486	0	10.9	0.0	10.9	
14	400 kV	RAPP-SHUJALPUR	2	431	304	1.6	0.0	1.6	
15	220 kV	BHANSURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANSURA-MORAK	1	0	30	0.0	0.0	0.0	
17	220 kV	MEHGAON-AURAIYA	1	119	0	1.1	0.0	1.1	
18	220 kV	MALANPUR-AURAIYA	1	77	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	76.2	155.2	-79.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	24.1	-24.1	
2	HVDC	RAIGARH-PUGALUR	2	0	2051	0.0	29.4	-29.4	
3	765 kV	SOLAPUR-RAICHUR	2	624	1787	0.0	19.4	-19.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	2557	0.0	41.6	-41.6	
5	400 kV	KOLHAPUR-KUDGI	2	1298	0	18.9	0.0	18.9	
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	73	1.3	0.0	1.3	
						WR-SR	20.2	114.5	-94.3

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Import(+ve)/Export(-ve)	
					Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	126	0	22	0.5
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW) 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	18	0	9	0.2
	NER	132kV MOTANGA-RANGIA	22	0	4	0.1
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-69	-1.7
NEPAL	ER	NEPAL IMPORT (FROM BIHAR)	-145	0	-86	-2.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-360	0	-283	-6.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-751	-642	-709	-17.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-94	0	-78	-1.9