



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: 06th 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 05.02.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-फरवरी-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 05th February 2022, is available at the NLDC website.

धन्यवाद,

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 06-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)	53559	56329	43622	19222	2269	175001
Peak Shortage (MW)	250	0	0	567	0	817
Energy Met (MU)	1059	1313	1060	386	41	3860
Hydro Gen (MU)	101	37	94	27	10	269
Wind Gen (MU)	13	23	15	-	-	51
Solar Gen (MU)*	77.93	45.87	113.91	5.13	0.23	243
Energy Shortage (MU)	4.65	0.00	4.30	2.68	0.00	11.63
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55118	63263	54224	19662	2329	190889
Time Of Maximum Demand Met (From NLDC SCADA)	10:15	10:38	10:17	18:58	18:01	10:15

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	0.025	0.00	0.00	1.67	1.67	78.13	20.21

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	6691	0	121.5	45.6	-2.9	82	0.00
	Haryana	6510	0	128.8	77.9	1.6	226	0.00
	Rajasthan	15398	0	277.0	71.2	-0.7	342	0.00
	Delhi	4626	0	72.7	60.6	-0.2	216	0.00
	UP	18634	0	317.1	91.3	0.7	417	0.00
	Uttarakhand	2334	0	43.1	32.7	0.2	205	0.00
	HP	1895	0	34.5	25.7	0.2	242	0.00
	J&K(UT) & Ladakh(UT)	3003	250	60.7	56.4	-1.1	217	4.65
WR	Chandigarh	242	0	4.0	4.0	0.0	49	0.00
	Chhattisgarh	4295	0	91.8	40.9	0.7	323	0.00
	Gujarat	16504	0	354.1	213.7	2.8	635	0.00
	MP	15337	0	300.9	180.6	-0.7	460	0.00
	Maharashtra	25222	0	510.7	145.9	-2.9	684	0.00
	Goa	585	0	11.8	11.3	0.2	37	0.00
	DD	333	0	7.5	7.3	0.2	58	0.00
	DNH	853	0	19.7	19.6	0.1	43	0.00
SR	AMNSIL	817	0	16.7	9.1	-0.7	285	0.00
	Andhra Pradesh	10896	1500	193.9	78.2	3.9	1566	4.30
	Telangana	11583	0	211.7	69.6	-0.8	527	0.00
	Karnataka	13219	0	243.9	100.8	0.4	592	0.00
	Kerala	3742	0	75.2	57.3	0.0	180	0.00
	Tamil Nadu	15641	0	327.8	197.1	2.0	1215	0.00
	Puducherry	374	0	7.8	7.9	-0.2	34	0.00
	ER	Bihar	4867	0	80.2	69.4	0.2	409
DVC		3815	0	69.9	-36.4	-0.7	271	0.00
Jharkhand		1534	0	29.4	21.1	-0.5	250	1.92
Odisha		5160	0	96.5	33.1	-0.6	428	0.00
West Bengal		5738	0	108.1	-7.5	-0.3	699	0.00
Sikkim		117	0	2.2	2.1	0.0	37	0.00
NER	Arunachal Pradesh	154	0	2.3	2.7	-0.5	16	0.00
	Assam	1173	0	21.2	15.1	-0.1	85	0.00
	Manipur	243	0	3.2	3.5	-0.3	23	0.00
	Meghalaya	398	0	7.0	6.1	-0.1	60	0.00
	Mizoram	140	0	1.8	1.9	-0.4	23	0.00
	Nagaland	148	0	2.5	2.0	0.3	33	0.00
	Tripura	215	0	3.1	1.4	-0.2	34	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	0.9	-7.0	-18.1
Day Peak (MW)	147.0	-568.0	-858.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	180.8	-118.1	122.4	-182.1	-2.9	0.0
Actual(MU)	149.7	-112.8	151.8	-185.7	-7.2	-4.2
O/D/U/D(MU)	-31.1	5.4	29.4	-3.6	-4.2	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5834	13223	6562	0	369	25988	43
State Sector	8815	17228	8183	60	11	34297	57
Total	14650	30451	14745	60	380	60285	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	640	1293	545	572	14	3064	77
Lignite	24	11	48	0	0	83	2
Hvdro	101	37	94	27	10	269	7
Nuclear	33	21	69	0	0	124	3
Gas, Naptha & Diesel	15	13	9	0	29	65	2
RES (Wind, Solar, Biomass & Others)	116	70	158	5	0	350	9
Total	929	1445	923	604	53	3954	100

Share of RES in total generation (%)	12.49	4.85	17.16	0.85	0.44	8.85
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.95	8.88	34.84	5.30	19.24	18.78

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
Based on State Max Demands	1.060

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: 06-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	961	0.0	0.0	-15.2	
4	765 kV	SASARAM-FATEHPUR	1	0	655	0.0	12.2	-12.2	
5	765 kV	GAYA-BALIA	1	0	542	0.0	6.5	-6.5	
6	400 kV	PUSAULI-VARANASI	1	7	112	0.0	1.2	-1.2	
7	400 kV	PUSAULI-ALLAHABAD	1	1	150	0.0	1.6	-1.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	867	0.0	10.3	-10.3	
9	400 kV	PATNA-BALIA	4	0	1206	0.0	21.9	-21.9	
10	400 kV	BIHARSHARIFF-BALIA	2	0	587	0.0	6.5	-6.5	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	563	0.0	8.9	-8.9	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	436	0.0	4.8	-4.8	
13	220 kV	SAHPURI-KARAMANASA	1	25	144	0.0	0.5	-0.5	
14	132 kV	SONENAGAR-RIHAND	1	0	139	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3	
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	0.3	89.5	-89.2
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	478	414	1.5	0.0	1.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1483	0.0	19.6	-19.6	
3	765 kV	JHARSUGUDA-DURG	2	0	541	0.0	7.2	-7.2	
4	400 kV	JHARSUGUDA-RAIGARH	4	29	431	0.0	3.1	-3.1	
5	400 kV	RANCHI-SIPAT	2	0	378	0.0	4.5	-4.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	141	0.0	2.1	-2.1	
7	220 kV	BUDHIPADAR-KORBA	2	88	3	0.8	0.0	0.8	
						ER-WR	2.2	36.5	-34.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	443	0.0	9.9	-9.9	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1994	0.0	47.3	-47.3	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2912	0.0	54.4	-54.4	
4	400 kV	TALCHER/JC	2	0	791	0.0	13.7	-13.7	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	111.5	-111.5
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	448	0	5.8	0.0	5.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	616	0	8.3	0.0	8.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	115	0	1.5	0.0	1.5	
						ER-NER	15.6	0.0	15.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	489	0	9.6	0.0	9.6	
						NER-NR	9.6	0.0	9.6
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3007	0.0	55.9	-55.9	
2	HVDC	VINDHYACHAL B/B	-	318	0	8.5	0.0	8.5	
3	HVDC	MUNDRU-MOHENDERGARH	2	0	128	0.0	3.1	-3.1	
4	765 kV	GWALIOR-AGRA	2	101	1509	0.0	17.3	-17.3	
5	765 kV	GWALIOR-PHAGI	2	0	2202	0.0	34.0	-34.0	
6	765 kV	JABALPUR-ORAI	2	0	848	0.0	23.8	-23.8	
7	765 kV	GWALIOR-ORAI	1	1013	0	16.4	0.0	16.4	
8	765 kV	SATNA-ORAI	1	0	1063	0.0	21.0	-21.0	
9	765 kV	BANASKANTHA-CHITORGARH	2	2024	0	40.6	0.0	40.6	
10	765 kV	VINDHYACHAL-VARANASI	2	161	1786	0.0	16.1	-16.1	
11	400 kV	ZERDA-KANKROLI	1	401	0	7.6	0.0	7.6	
12	400 kV	ZERDA-BHINMAL	1	546	0	9.0	0.0	9.0	
13	400 kV	VINDHYACHAL-RIHAND	1	485	0	10.9	0.0	10.9	
14	400 kV	RAPP-SHUJALPUR	2	450	267	0.9	0.0	0.9	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	2.4	0.0	2.4	
17	220 kV	MEHGAON-AURAIYA	1	155	0	1.8	0.0	1.8	
18	220 kV	MALANPUR-AURAIYA	1	112	0	2.7	0.0	2.7	
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	100.8	171.1	-70.3
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	326	0.0	7.5	-7.5	
2	HVDC	RAIGARH-PUGALUR	2	0	1001	0.0	21.8	-21.8	
3	765 kV	SOLAPUR-RAICHUR	2	308	1947	0.0	24.6	-24.6	
4	765 kV	WARDHA-NIZAMABAD	2	0	2480	0.0	41.2	-41.2	
5	400 kV	KOLHAPUR-KUDGI	2	1152	0	17.2	0.0	17.2	
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	1.4	0.0	1.4	
						WR-SR	18.6	95.1	-76.5

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)	311	44	68	1.6
	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	-0.8
	ER	132kV GELEPHU-SALAKATI	15	2	8	0.2
	NER	132kV MOTANGA-RANGIA	17	0	2	0.1
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.6
NEPAL	ER	NEPAL IMPORT (FROM BIHAR)	-205	0	-39	-0.9
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-284	0	-186	-4.5
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-749	-514	-675	-16.2
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-109	0	-79	-1.9