



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: 04th 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 03.02.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-फ़रवरी-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 03rd 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: 04-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)	53335	55504	41017	20257	2700	172813
Peak Shortage (MW)	269	0	1800	517	0	2586
Energy Met (MU)	1029	1316	1035	410	48	3837
Hydro Gen (MU)	94	33	99	25	9	259
Wind Gen (MU)	22	109	36	-	-	167
Solar Gen (MU)*	69.27	40.13	106.29	4.89	0.28	221
Energy Shortage (MU)	6.20	0.00	22.36	2.52	0.00	31.08
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53901	63600	52301	20513	2760	187307
Time Of Maximum Demand Met (From NLDC SCADA)	18:48	10:59	11:24	19:22	18:08	10:57

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	0.039	0.00	0.62	7.51	8.14	75.59	16.27

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	6346	0	119.8	37.3	-2.0	182	0.48
	Haryana	6451	19	119.0	70.0	1.7	353	1.07
	Rajasthan	15347	0	278.3	49.1	0.2	499	0.00
	Delhi	4520	0	76.1	63.9	-0.7	319	0.00
	UP	17028	0	289.1	71.1	-2.3	492	0.00
	Uttarakhand	2216	0	43.3	33.4	0.3	202	0.00
	HP	1875	0	35.5	27.7	0.2	230	0.00
	J&K(UT) & Ladakh(UT)	3086	250	63.2	57.1	1.0	336	4.65
WR	Chhattisgarh	244	0	4.4	4.3	0.1	88	0.00
	Chhattisgarh	4375	0	93.1	39.0	0.1	146	0.00
	Gujarat	16451	0	358.3	207.7	3.2	677	0.00
	MP	15125	0	296.4	159.5	-2.1	642	0.00
	Maharashtra	25596	0	510.8	140.8	-4.1	880	0.00
	Goa	577	0	12.0	11.5	0.5	47	0.00
	DD	341	0	7.6	7.3	0.3	77	0.00
	DNH	856	0	19.7	19.4	0.3	61	0.00
SR	AMNSIL	829	0	17.9	10.3	-0.4	272	0.00
	Andhra Pradesh	9583	500	171.0	47.5	9.1	1644	22.36
	Telangana	11692	0	212.6	81.1	-1.0	317	0.00
	Karnataka	13418	0	242.2	95.6	-0.1	998	0.00
	Kerala	3909	0	80.8	56.9	-0.1	228	0.00
	Tamil Nadu	15174	0	320.6	189.6	0.2	467	0.00
	Puducherry	380	0	7.6	7.8	-0.2	36	0.00
	ER	Bihar	5124	0	84.9	76.5	-0.2	380
DVC		3312	0	70.6	-33.1	0.1	276	0.00
Jharkhand		1471	0	32.8	20.0	2.7	160	2.10
Odisha		5254	0	96.0	35.8	-0.7	387	0.00
West Bengal		6403	0	123.8	16.6	-0.5	334	0.00
Sikkim		122	0	2.0	2.1	-0.1	29	0.00
NER	Arunachal Pradesh	146	0	2.8	2.7	0.0	30	0.00
	Assam	1498	0	26.1	19.8	0.1	130	0.00
	Manipur	247	0	3.6	3.7	-0.2	38	0.00
	Meghalaya	397	0	7.6	6.2	0.2	50	0.00
	Mizoram	137	0	2.0	1.7	-0.3	12	0.00
	Nagaland	148	0	2.3	2.3	-0.1	20	0.00
	Tripura	223	0	3.5	2.1	-0.2	52	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.5	-8.8	-20.1
Day Peak (MW)	-275.0	-672.6	-857.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	137.6	-113.7	92.8	-120.1	3.3	0.0
Actual(MU)	116.4	-124.8	128.0	-125.6	1.6	-4.4
O/D/U/D(MU)	-21.2	-11.1	35.2	-5.6	-1.7	-4.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5104	13283	6562	1646	424	27019	41
State Sector	7780	16367	10003	4110	11	38271	59
Total	12885	29649	16565	5756	435	65289	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	658	1234	528	536	13	2968	75
Lignite	27	10	44	0	0	81	2
Hvdro	94	33	99	25	9	259	7
Nuclear	29	21	69	0	0	119	3
Gas, Naptha & Diesel	15	12	9	0	29	65	2
RES (Wind, Solar, Biomass & Others)	117	151	171	5	0	443	11
Total	939	1461	919	565	51	3935	100

Share of RES in total generation (%)	12.41	10.31	18.57	0.87	0.55	11.26
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.46	13.99	36.88	5.25	17.56	20.86

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
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: 04-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	247	898	0.0	8.0	-8.0
4	765 kV	SASARAM-FATEHPUR	1	0	617	0.0	9.4	-9.4
5	765 kV	GAYA-BALIA	1	0	469	0.0	7.1	-7.1
6	400 kV	PUSAULI-VARANASI	1	44	97	0.0	0.5	-0.5
7	400 kV	PUSAULI-ALLAHABAD	1	115	117	0.1	0.0	0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	729	0.0	7.2	-7.2
9	400 kV	PATNA-BALIA	4	0	1048	0.0	18.5	-18.5
10	400 kV	BIHARSHARIF-BALIA	2	180	370	0.0	4.0	-4.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	430	0.0	5.3	-5.3
12	400 kV	BIHARSHARIF-VARANASI	2	59	351	0.0	3.0	-3.0
13	220 kV	SAHPURI-KARMANASA	1	0	117	0.0	1.3	-1.3
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3
16	132 kV	KARMANASA-SAHPURI	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	64.4	-64.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	803	311	4.8	0.0	4.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	52	1003	0.0	6.3	-6.3
3	765 kV	JHARSUGUDA-DURG	2	42	232	0.0	1.4	-1.4
4	400 kV	JHARSUGUDA-RAIGARH	4	146	295	0.0	2.5	-2.5
5	400 kV	RANCHI-SIPAT	2	77	249	0.0	1.0	-1.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	137	0.0	2.1	-2.1
7	220 kV	BUDHIPADAR-KORBA	2	84	1	1.0	0.0	1.0
						ER-WR	5.8	-7.4
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	1491	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2538	0.0	49.6	-49.6
4	400 kV	TALCHER/JC	2	0	748	0.0	3.8	-3.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
						ER-SR	95.6	-95.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	309	90	2.8	0.0	2.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	475	83	5.1	0.0	5.1
3	220 kV	ALIPURDUAR-SALAKATI	2	77	31	0.8	0.0	0.8
						ER-NER	8.7	8.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	490	0	10.6	0.0	10.6
						NER-NR	10.6	10.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1003	0.0	23.9	-23.9
2	HVDC	VINDHYACHAL B/B	-	137	0	3.6	0.0	3.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	129	0.0	3.1	-3.1
4	765 kV	GWALIOR-AGRA	2	0	1928	0.0	23.8	-23.8
5	765 kV	GWALIOR-PHAGI	2	0	1901	0.0	28.5	-28.5
6	765 kV	JABALPUR-ORAI	2	0	1034	0.0	25.1	-25.1
7	765 kV	GWALIOR-ORAI	1	905	0	15.9	0.0	15.9
8	765 kV	SATNA-ORAI	1	0	1070	0.0	18.4	-18.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1940	0	30.2	0.0	30.2
10	765 kV	VINDHYACHAL-VARANASI	2	321	1414	0.0	21.4	-21.4
11	400 kV	ZERDA-KANKROLI	1	420	0	6.5	0.0	6.5
12	400 kV	ZERDA-BHINMAL	1	617	0	7.8	0.0	7.8
13	400 kV	VINDHYACHAL-RIHAND	1	489	0	11.1	0.0	11.1
14	400 kV	RAPP-SHUJALPUR	2	272	501	1.7	3.1	-1.4
15	220 kV	BHANPUR-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPUR-MORAK	1	0	30	1.4	0.2	1.2
17	220 kV	MEHGAON-AURAIYA	1	138	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	94	0	2.3	0.0	2.3
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	147.3	-65.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	315	0.0	7.4	-7.4
2	HVDC	RAIGARH-PUGALUR	2	0	1502	0.0	19.8	-19.8
3	765 kV	SOLAPUR-RAICHUR	2	693	1735	0.6	20.1	-19.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2329	0.0	39.0	-39.0
5	400 kV	KOLHAPUR-KUDGI	2	1415	0	17.4	0.0	17.4
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBWADI	1	0	77	1.4	0.0	1.4
						WR-SR	86.3	-67.0

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)	129	0	37	0.9
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*190MW)	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	-21	-1	-11	-0.3
	NER	132kV MOTANGA-RANGIA	-10	0	-1	0.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	-307	0	-162	-3.9
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-366	18	-205	-4.9
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-753	-709	-744	-17.9
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-104	0	-92	-2.2