



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: 8th 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 07.01.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-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 7th January 2022, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Date of Reporting 8-Jan-22

Report for previous day

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000)	49849	53317	41795	20079	2654	167694
Peak Shortage (MW)	325	0	0	126	0	451
Energy Met (MU)	947	1198	999	403	46	3592
Hydro Gen (MU)	101	29	95	24	10	260
Wind Gen (MU)	12	48	46	-----	-----	105
Solar Gen (MU)*	11.50	30.76	92.34	4.76	0.27	140
Energy Shortage (MU)	10.25	0.01	0.00	3.67	0.00	13.93
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	50537 18:48	58151 10:28	50889 09:46	20256 18:16	2703 17:37	175127 10:13

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	0.063	0.00	2.82	10.08	12.91	62.11	24.99

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	6291	75	117.1	51.0	-1.4	238	5.53
	Haryana	6053	0	119.3	65.9	1.8	332	0.00
	Rajasthan	11483	0	208.8	39.3	-1.0	413	0.00
	Delhi	4559	0	72.0	62.1	-2.8	293	0.00
	UP	17735	0	294.5	76.5	-1.5	271	0.00
	Uttarakhand	2204	0	41.1	29.0	1.0	212	0.07
	HP	2030	0	36.2	26.8	1.2	549	0.00
	J&K(UT) and Ladakh(UT)	2728	250	54.1	52.9	-3.9	184	4.65
WR	Chhattisgarh	252	0	4.1	4.2	-0.1	41	0.00
	Gujarat	3889	0	83.5	27.7	0.1	217	0.00
	MP	16447	0	336.6	196.2	-4.8	829	0.00
	Maharashtra	11245	0	218.8	135.6	-1.8	609	0.00
	Goa	24454	0	501.1	135.7	-7.3	430	0.00
	DD	595	0	12.3	11.9	0.3	32	0.01
	DNH	326	0	7.3	6.9	0.4	50	0.00
	AMNSIL	845	0	19.7	19.5	0.3	78	0.00
	Andhra Pradesh	840	0	18.5	8.8	0.0	299	0.00
	Telangana	9652	0	183.5	78.2	0.2	840	0.00
SR	Karnataka	11840	0	211.9	87.4	-0.4	858	0.00
	Kerala	12565	0	221.3	62.4	2.3	739	0.00
	Tamil Nadu	3855	0	77.9	54.6	-0.1	302	0.00
	Puducherry	14176	0	297.0	175.6	2.3	873	0.00
	Bihar	363	0	7.2	7.2	0.0	40	0.00
ER	DVC	4887	0	87.4	76.6	0.1	252	0.00
	Jharkhand	3083	80	67.3	-39.5	-1.6	266	2.09
	Odisha	1662	46	30.4	21.9	-1.0	150	1.58
	West Bengal	5259	0	100.9	49.5	-0.6	452	0.00
	Sikkim	6391	0	115.5	-1.9	-0.1	416	0.00
NER	Arunachal Pradesh	111	0	1.8	1.8	0.0	50	0.00
	Assam	146	0	2.5	2.3	0.0	34	0.00
	Manipur	1472	0	24.4	21.3	-0.8	123	0.00
	Meghalaya	247	0	3.5	3.6	-0.1	19	0.00
	Mizoram	394	0	7.2	6.1	0.0	39	0.00
	Nagaland	141	0	2.0	1.5	0.0	30	0.00
	Tripura	138	0	2.3	2.1	0.2	18	0.00
	Tripura	254	0	3.7	3.0	-0.2	83	0.00

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	-1.6	-7.0	-14.6
Day peak (MW)	-124.0	-503.3	-757.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	170.9	-165.1	110.2	-123.0	7.0	0.0
Actual(MU)	174.3	-184.8	132.2	-126.7	6.4	1.5
O/D/U/D(MU)	3.5	-19.7	22.0	-3.7	-0.6	1.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	8403	13393	7022	2400	659	31876
State Sector	9495	17319	9883	3538	47	40281
Total	17898	30711	16905	5938	705	72157

G. Sourcwise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	587	1256	531	538	9	2921
Lignite	21	9	38	0	0	67
Hydro	101	29	95	24	10	260
Nuclear	33	21	47	0	0	100
Gas, Naptha & Diesel	15	10	9	0	25	58
RES (Wind, Solar, Biomass & Others)	52	80	165	5	0	302
Total	808	1405	885	567	44	3709
Share of RES in total generation (%)	6.48	5.67	18.67	0.85	0.62	8.15
Share of Non-fossil fuel (Hydro, Nuclear and RES) in	23.06	9.24	34.70	5.13	23.29	17.86

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.077

I. All India Demand Load Factor (%)

85

Diversity factor = Sum of regional or state-wise maximum demands / All India maximum demand

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

INTER-REGIONAL EXCHANGES

Import=(+ve)/Export =(-ve) for NET (MU)

Date of Reporting: 08-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	202	862	0.0	8.8	-8.8	
4	765 kV	SASARAM-FATEHPUR	1	0	494	0.0	7.9	-7.9	
5	765 kV	GAYA-BALIA	1	0	528	0.0	0.0	-7.0	
6	400 kV	PUSAULI-VARANASI	1	34	89	0.0	1.1	-1.1	
7	400 kV	PUSAULI-ALLAHABAD	1	59	99	0.0	0.5	-0.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	702	0.0	9.4	-9.4	
9	400 kV	PATNA-BALIA	4	0	1216	0.0	19.4	-19.4	
10	400 kV	BIHARSHARIFF-BALIA	2	189	270	0.0	2.7	-2.7	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	581	0.0	9.2	-9.2	
12	400 kV	BIHARSHARIFF-VARANASI	2	47	390	0.0	3.0	-3.0	
13	220 kV	PUSAULI-SAHUPURI	1	0	108	0.0	1.2	-1.2	
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-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.3	70.2	-69.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1598	217	17.1	0.0	17.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	60	1160	0.0	9.9	-9.9	
3	765 kV	JHARSUGUDA-DURG	2	0	464	0.0	4.7	-4.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	31	553	0.0	4.2	-4.2	
5	400 kV	RANCHI-SIPAT	2	52	352	0.0	3.0	-3.0	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	163	0.0	2.2	-2.2	
7	220 kV	BUDHIPADAR-KORBA	2	205	0	3.6	0.0	3.6	
						ER-WR	20.8	24.0	-3.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	505	0.0	10.0	-10.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1233	0.0	24.1	-24.1	
3	765 kV	ANGUL-SIRSAKULAM	3	0	3226	0.0	52.4	-52.4	
4	400 kV	TALCHER-IC	2	1718	0	15.3	0.0	15.3	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	86.5	-86.5
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	13	270	0.0	2.9	-2.9	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	326	0.0	3.1	-3.1	
3	220 kV	ALIPURDUAR-SALAKATI	2	2	66	0.0	0.6	-0.6	
						ER-NER	0.0	6.6	-6.6
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2497	0.0	48.1	-48.1	
2	HVDC	VINDHYACHAL B/B	-	230	0	6.0	0.0	6.0	
3	HVDC	MUNDRRA-MOHINDERGARH	2	0	251	0.0	6.2	-6.2	
4	765 kV	GWALIOR-AGRA	2	0	1988	0.0	26.9	-26.9	
5	765 kV	GWALIOR-PHAGI	2	0	2037	0.0	26.8	-26.8	
6	765 kV	JABALPUR-ORAI	2	0	952	0.0	21.7	-21.7	
7	765 kV	GWALIOR-ORAI	1	810	0	14.8	0.0	14.8	
8	765 kV	SATNA-ORAI	1	0	1126	0.0	19.1	-19.1	
9	765 kV	BANASKANTHA-CHITORGARH	2	1579	0	21.4	0.0	21.4	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2231	0.0	35.7	-35.7	
11	400 kV	ZERDA-KANKROLI	1	394	0	5.7	0.0	5.7	
12	400 kV	ZERDA-BHINMAL	1	471	0	6.2	0.0	6.2	
13	400 kV	VINDHYACHAL-RIHAND	1	973	0	21.6	0.0	21.6	
14	400 kV	RAPP-SHUJALPUR	2	284	341	2.0	1.4	0.7	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.3	-0.2	
17	220 kV	MEHGAON-AURAIYA	1	88	0	0.6	0.0	0.6	
18	220 kV	MALANPUR-AURAIYA	1	77	5	1.2	0.0	1.2	
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	79.6	186.1	-106.5
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	17.1	-17.1	
2	HVDC	RAIGARH-PUGA LUR	2	0	3005	0.0	30.0	-30.0	
3	765 kV	SOJAPUR-RAICHUR	2	1121	2066	2.0	19.3	-17.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	3104	0.0	40.7	-40.7	
5	400 kV	KOLHAPUR-KUDGI	2	1479	0	22.3	0.0	22.3	
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	78	1.5	0.0	1.5	
						WR-SR	25.8	107.2	-81.4

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)	180	0	53	1.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	0	0	0	-1.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.1
	NER	132kV GELEPHU-SALAKATI	-10	0	-1	0.0
	NER	132kV MOTANGA-RANGIA	-18	-2	-3	-0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-63	-1.5
	ER	NEPAL IMPORT (FROM BIHAR)	-119	-20	-24	-0.6
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-310	-43	-204	-4.9
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-669	-433	-537	-12.9
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-88	0	-71	-1.7