



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: 27th Dec 2021

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 26.12.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-दिसंबर-2021 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 26th December 2021, 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: 27-Dec-2021

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)	49539	53978	36079	19334	2476	161406
Peak Shortage (MW)	250	0	0	290	0	540
Energy Met (MU)	1012	1263	874	386	44	3579
Hydro Gen (MU)	104	37	71	27	11	250
Wind Gen (MU)	4	15	26	-	-	45
Solar Gen (MU)*	24.20	34.02	101.20	4.55	0.27	164
Energy Shortage (MU)	4.65	0.06	0.00	5.40	0.00	10.11
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52486	61601	44042	19519	2552	175606
Time Of Maximum Demand Met (From NLDC SCADA)	10:55	11:40	09:45	18:09	17:34	10:44

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	0.060	0.39	2.44	11.82	14.65	71.00	14.35

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	6262	0	118.1	62.8	-1.2	180	0.00
	Haryana	6230	0	117.0	61.7	-1.3	141	0.00
	Rajasthan	15314	0	267.3	86.6	-1.7	310	0.00
	Delhi	4044	0	64.7	55.7	-0.5	378	0.00
	UP	17419	0	308.0	90.4	-0.6	530	0.00
	Uttarakhand	2151	0	40.4	27.4	0.8	235	0.00
	HP	1826	0	33.8	27.3	-0.3	201	0.00
	J&K(UT) & Ladakh(UT)	2820	250	58.8	52.4	1.5	360	4.65
WR	Chhattisgarh	213	0	3.7	3.8	-0.1	59	0.00
	Chhattisgarh	3886	0	83.1	33.5	-0.2	226	0.00
	Gujarat	17443	40	351.4	203.8	1.0	431	0.06
	MP	15535	0	300.6	188.8	1.2	856	0.00
	Maharashtra	23703	0	473.8	137.1	-3.3	531	0.00
	Goa	519	0	10.6	10.0	0.1	31	0.00
	DD	304	0	7.0	6.6	0.4	69	0.00
	DNH	811	0	18.9	18.9	0.0	84	0.00
SR	AMNSIL	814	0	17.9	8.4	-0.4	310	0.00
	Andhra Pradesh	9004	0	167.8	76.1	-0.8	222	0.00
	Telangana	9747	0	185.5	78.9	-2.2	336	0.00
	Karnataka	10311	0	187.1	41.4	-0.6	573	0.00
	Kerala	3255	0	64.7	53.4	-0.7	189	0.00
	Tamil Nadu	12523	0	263.1	145.5	-1.1	653	0.00
	Puducherry	300	0	6.2	6.8	-0.6	32	0.00
	Bihar	4764	0	81.7	70.5	-0.2	282	0.00
ER	DVC	3117	0	65.7	-37.1	-1.9	723	1.84
	Jharkhand	1498	0	29.1	19.6	0.1	178	3.56
	Odisha	5271	0	105.0	50.7	0.4	421	0.00
	West Bengal	5497	0	102.2	-6.9	-1.7	248	0.00
	Sikkim	116	0	2.0	1.5	0.5	58	0.00
	NER	Arunachal Pradesh	141	0	2.3	2.1	0.0	87
Assam		1374	0	23.2	17.5	-0.5	92	0.00
Manipur		230	0	3.4	3.4	0.0	37	0.00
Meghalaya		365	0	7.3	6.0	0.1	57	0.00
Mizoram		119	0	2.1	1.4	0.0	11	0.00
Nagaland		135	0	2.1	2.0	0.0	17	0.00
Tripura		209	0	3.3	3.6	-0.4	21	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.0	-6.6	-12.2
Day Peak (MW)	368.0	-519.7	-536.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	232.8	-129.3	48.4	-154.5	2.7	0.0
Actual(MU)	238.3	-119.8	33.6	-158.2	1.9	-4.3
O/D/U/D(MU)	5.6	9.5	-14.8	-3.7	-0.8	-4.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7926	11603	5922	1960	664	28074	41
State Sector	8270	17501	10153	4068	112	40103	59
Total	16196	29103	16075	6028	776	68178	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	580	1257	503	545	9	2894	79
Lignite	25	12	46	0	0	83	2
Hydro	104	37	71	27	11	250	7
Nuclear	33	33	70	0	0	136	4
Gas, Naptha & Diesel	12	10	9	0	26	57	2
RES (Wind, Solar, Biomass & Others)	53	50	155	5	0	263	7
Total	808	1399	854	576	46	3684	100

Share of RES in total generation (%)

Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	6.61	3.59	18.15	0.78	0.58	7.15
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H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
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Based on State Max Demands	1.066
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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: 27-Dec-2021

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	121	812	0.0	11.3	-11.3	
4	765 kV	SASARAM-FATEHPUR	1	0	558	0.0	9.1	-9.1	
5	765 kV	GAYA-BALIA	1	0	636	0.0	11.1	-11.1	
6	400 kV	PUSAULI-VARANASI	1	35	101	0.0	1.4	-1.4	
7	400 kV	PUSAULI-ALLAHABAD	1	22	156	0.0	2.1	-2.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	882	0.0	13.2	-13.2	
9	400 kV	PATNA-BALIA	4	0	1231	0.0	22.8	-22.8	
10	400 kV	BIHARSHARIFF-BALIA	2	0	391	0.0	6.3	-6.3	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	551	0.0	9.6	-9.6	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	361	0.0	6.0	-6.0	
13	220 kV	PUSAULI-SAHUPURI	1	0	124	0.0	1.7	-1.7	
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-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.3	94.6	-94.2
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	716	638	0.7	0.0	0.7	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	442	699	0.0	2.5	-2.5	
3	765 kV	JHARSUGUDA-DURG	2	206	118	0.0	0.0	0.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	280	276	0.0	1.0	-1.0	
5	400 kV	RANCHI-SIPAT	2	173	197	0.0	0.5	-0.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	64	60	0.2	0.0	0.2	
7	220 kV	BUDHIPADAR-KORBA	2	104	0	1.4	0.0	1.4	
						ER-WR	2.3	4.0	-1.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	390	0.0	8.7	-8.7	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1984	0.0	34.6	-34.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2725	0.0	46.7	-46.7	
4	400 kV	TALCHER-I/C	2	647	622	5.3	0.0	5.3	
5	220 kV	BALMEL A-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	89.9	-89.9
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	386	0.0	5.0	-5.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	554	0.0	6.1	-6.1	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	103	0.0	1.1	-1.1	
						ER-NER	0.0	12.2	-12.2
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIAL-AGRA	2	0	453	0.0	10.9	-10.9	
						NER-NR	0.0	10.9	-10.9
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3013	0.0	46.5	-46.5	
2	HVDC	VINDHYACHAL B/B	-	448	0	5.6	0.0	5.6	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	252	0.0	6.2	-6.2	
4	765 kV	GWALIOR-AGRA	2	0	1810	0.0	26.5	-26.5	
5	765 kV	GWALIOR-PHAGI	2	0	2494	0.0	41.1	-41.1	
6	765 kV	JABALPUR-ORAI	2	0	1070	0.0	31.1	-31.1	
7	765 kV	GWALIOR-ORAI	1	964	0	18.6	0.0	18.6	
8	765 kV	SAINA-ORAI	1	0	1120	0.0	20.5	-20.5	
9	765 kV	BANASKANTHA-CHITORGARH	2	1684	0	25.6	0.0	25.6	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2432	0.0	43.3	-43.3	
11	400 kV	ZERDA-KANKROLI	1	273	0	4.5	0.0	4.5	
12	400 kV	ZERDA-BHINMAL	1	342	59	3.2	0.0	3.2	
13	400 kV	VINDHYACHAL-RIHAND	1	970	0	21.9	0.0	21.9	
14	400 kV	RAPP-SHILJALPUR	2	21	425	0.0	3.8	-3.8	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.8	0.8	-0.1	
17	220 kV	MEHGAON-AURAIYA	1	150	0	1.2	0.0	1.2	
18	220 kV	MALANPUR-AURAIYA	1	99	0	2.1	0.0	2.1	
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	83.4	219.7	-136.3
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	990	0	15.7	0.0	15.7	
2	HVDC	RAIGARH-PUGALUR	2	1448	1000	20.1	0.0	20.1	
3	765 kV	SOLAPUR-RAICHUR	2	1647	2140	7.6	13.8	-6.2	
4	765 kV	WARDHA-NIZAMABAD	2	0	2624	0.0	37.2	-37.2	
5	400 kV	KOLHAPUR-KUDGI	2	1438	0	20.0	0.0	20.0	
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	68	1.2	0.0	1.2	
						WR-SR	64.6	50.0	14.6

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)	170	12	56	1.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	165	0	132	3.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	12	0	-23	-0.6
	NER	132kV GELEPHU-SALAKATI	8	-4	2	0.0
	NER	132kV MOTANGA-RANGIA	13	-13	-1	0.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-52	0	-13	-0.3
	ER	NEPAL IMPORT (FROM BIHAR)	-128	0	-51	-1.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-340	-52	-209	-5.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-450	-390	-434	-10.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-86	0	-73	-1.7