



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: 13th 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 12.12.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12th 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: 13-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)	46876	52591	35248	18044	2454	155213
Peak Shortage (MW)	250	0	0	339	0	589
Energy Met (MU)	971	1225	799	377	43	3415
Hydro Gen (MU)	113	27	78	35	11	264
Wind Gen (MU)	7	47	61	-	-	116
Solar Gen (MU)*	63.84	36.80	81.40	4.65	0.26	187
Energy Shortage (MU)	4.65	0.00	0.00	5.89	0.00	10.54
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50063	58257	37306	18724	2481	161844
Time Of Maximum Demand Met (From NLDC SCADA)	11:23	11:02	09:23	17:57	17:35	11:23

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	0.026	0.00	0.00	1.40	1.40	75.59	23.01

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	6621	0	128.7	73.4	-0.5	148	0.00
	Haryana	6251	0	115.6	80.5	0.4	197	0.00
	Rajasthan	14806	0	265.5	79.4	1.1	327	0.00
	Delhi	3632	0	60.1	48.4	-0.8	190	0.00
	UP	15860	0	273.4	102.1	-1.9	404	0.00
	Uttarakhand	1908	0	35.5	23.9	0.2	108	0.00
	HP	1714	0	31.1	23.2	0.0	245	0.00
	J&K(UT) & Ladakh(UT)	2729	300	57.6	52.0	0.3	202	4.65
WR	Chhattisgarh	180	0	3.0	3.5	-0.6	24	0.00
	Chhattisgarh	3574	0	78.7	35.1	0.0	256	0.00
	Gujarat	16544	0	343.0	193.3	2.3	733	0.00
	MP	14873	0	285.9	171.7	-1.3	465	0.00
	Maharashtra	22001	0	462.5	137.8	-2.6	641	0.00
	Goa	545	0	12.4	11.1	0.7	62	0.00
	DD	294	0	6.7	6.5	0.2	91	0.00
	DNH	808	0	18.8	18.5	0.3	75	0.00
SR	AMNSIL	785	0	17.4	8.7	-0.2	283	0.00
	Andhra Pradesh	7612	0	158.3	75.4	0.0	318	0.00
	Telangana	8504	0	170.5	60.2	1.4	457	0.00
	Karnataka	7786	0	149.0	14.2	-0.6	459	0.00
	Kerala	3393	0	69.1	41.8	-0.5	206	0.00
	Tamil Nadu	11587	0	245.3	133.5	-2.2	492	0.00
	Puducherry	324	0	6.8	7.0	-0.2	33	0.00
ER	Bihar	4301	0	72.4	62.7	-0.6	308	0.00
	DVC	3067	0	63.9	-37.8	-2.0	358	2.03
	Jharkhand	1405	0	26.1	20.5	0.0	251	3.86
	Odisha	5568	0	110.1	52.3	-0.7	427	0.00
	West Bengal	5505	0	103.5	-8.3	1.4	475	0.00
NER	Sikkim	62	0	1.2	1.0	0.2	36	0.00
	Arunachal Pradesh	131	0	2.3	2.1	0.0	21	0.00
	Assam	1355	0	23.3	17.6	-0.3	71	0.00
	Manipur	226	0	3.2	3.2	0.0	28	0.00
	Meghalaya	361	0	6.9	5.8	0.0	31	0.00
	Mizoram	114	0	1.7	1.6	-0.2	5	0.00
	Nagaland	144	0	2.5	2.2	0.1	19	0.00
	Tripura	211	0	3.1	2.3	-0.5	23	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.7	-2.9	-15.0
Day Peak (MW)	345.0	144.7	-814.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	223.8	-114.8	29.5	-132.6	-5.9	0.0
Actual(MU)	218.0	-108.2	16.8	-125.7	-5.1	-4.1
O/D/U/D(MU)	-5.8	6.6	-12.7	6.9	0.8	-4.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7847	13218	8692	2310	350	32417	40
State Sector	12701	19611	11241	4378	11	47941	60
Total	20548	32828	19933	6688	361	80357	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	500	1173	431	494	11	2609	75
Lignite	22	15	36	0	0	73	2
Hvdro	112	27	78	35	11	264	8
Nuclear	27	33	70	0	0	130	4
Gas, Naptha & Diesel	14	10	9	0	30	63	2
RES (Wind, Solar, Biomass & Others)	97	85	171	5	0	358	10
Total	773	1344	794	533	53	3497	100
Share of RES in total generation (%)	12.50	6.35	21.51	0.87	0.49	10.23	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.60	10.83	40.09	7.39	22.02	21.49	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.080

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: 13-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	501	0.0	13.2	-12.2
2	HVDC	PUSAULI B/B	2	0	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	0	826	0.0	11.6	-11.6
4	765 kV	SASARAM-FATEHPUR	1	0	531	0.0	9.0	-9.0
5	765 kV	GAYA-BALIA	1	0	615	0.0	11.1	-11.1
6	400 kV	PUSAULI-VARANASI	1	4	117	0.0	1.7	-1.7
7	400 kV	PUSAULI-ALLAHABAD	1	0	153	0.0	1.9	-1.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	717	0.0	9.6	-9.6
9	400 kV	PATNA-BALIA	4	0	1288	0.0	21.6	-21.6
10	400 kV	BIHARSHARIFF-BALIA	2	0	482	0.0	6.7	-6.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	469	0.0	7.6	-7.6
12	400 kV	BIHARSHARIFF-VARANASI	2	0	351	0.0	5.1	-5.1
13	220 kV	PUSAULI-SAHUPURI	1	0	112	0.0	1.5	-1.5
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	25	0	0.0	0.0	0.0
16	132 kV	KARMANASA-SAHUPURI	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	99.6	-99.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1158	221	10.8	0.0	10.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	81	746	0.0	6.3	-6.3
3	765 kV	JHARSUGUDA-DURG	2	182	75	2.0	0.0	2.0
4	400 kV	JHARSUGUDA-RAIGARH	4	144	345	0.0	2.0	-2.0
5	400 kV	RANCHI-SIPAT	2	74	277	0.0	1.0	-1.0
6	220 kV	BUDHIPADAR-RAIGARH	1	41	103	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	125	69	0.6	0.0	0.6
						ER-WR	13.3	3.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	597	440	2.5	0.0	2.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1979	0.0	30.8	-30.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2551	0.0	38.9	-38.9
4	400 kV	TALCHER-I/C	2	1617	159	14.0	0.0	14.0
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
						ER-SR	2.5	-67.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	5	332	0.0	4.7	-4.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	207	271	0.0	1.8	-1.8
3	220 kV	ALIPURDUAR-SALAKATI	2	17	66	0.0	0.7	-0.7
						ER-NER	0.0	-7.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALL-AGRA	2	0	503	0.0	12.1	-12.1
						NER-NR	0.0	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2021	0.0	24.0	-24.0
2	HVDC	VINDHYACHAL B/B	2	227	197	1.9	3.2	-1.4
3	HVDC	MUNDRAMOHINDERGARH	2	0	255	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	1819	0.0	26.5	-26.5
5	765 kV	GWALIOR-PHAGI	2	0	2224	0.0	36.4	-36.4
6	765 kV	JABALPUR-ORAI	2	0	971	0.0	29.3	-29.3
7	765 kV	GWALIOR-ORAI	1	935	0	16.4	0.0	16.4
8	765 kV	SATNA-ORAI	1	0	1045	0.0	20.5	-20.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1389	0	22.1	0.0	22.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	1948	0.0	34.4	-34.4
11	400 kV	ZERDA-KANKROLI	1	246	0	4.5	0.0	4.5
12	400 kV	ZERDA -BHINMAL	1	296	8	3.9	0.0	3.9
13	400 kV	VINDHYACHAL -RIHAND	1	972	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUALPUR	2	113	356	0.0	2.8	-2.8
15	220 kV	BHANPURA-RANPUR	1	117	30	1.3	0.0	1.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3
17	220 kV	MEHGAON-AURAIYA	1	150	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	100	0	2.4	0.0	2.4
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	75.5	-109.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	987	617	7.7	8.0	-0.3
2	HVDC	RAIGARH-PUGALUR	2	0	606	0.0	8.0	-8.0
3	765 kV	SOLAPUR-RAICHUR	2	1543	937	5.6	0.0	5.6
4	765 kV	WARDHA-NIZAMABAD	2	268	1857	0.0	19.5	-19.5
5	400 kV	KOLHAPUR-KUDGI	2	1608	0	24.5	0.0	24.5
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	87	1.7	0.0	1.7
						WR-SR	39.5	4.0

INTERNATIONAL EXCHANGES				Import(+ve)/Export(-ve) Energy Exchange (MU)			
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)	121	0	95	2.3	
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	186	0	181	4.4	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	22	0	1	0.0	
	NER	132kV GELEPHU-SALAKATI	9	0	0	0.0	
	NER	132kV MOTANGA-RANGIA	8	0	1	0.0	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0	
	ER	NEPAL IMPORT (FROM BIHAR)	-115	0	-7	-0.2	
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	260	0	-114	-2.7	
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-715	-375	-542	-13.0	
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-99	0	-85	-2.0	