



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: 29th Nov 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 28.11.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-नवंबर-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 28th November 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: 29-Nov-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)	44319	52446	32482	17896	2356	149499
Peak Shortage (MW)	200	0	0	313	0	513
Energy Met (MU)	938	1237	722	372	42	3310
Hydro Gen (MU)	117	32	88	44	13	294
Wind Gen (MU)	8	50	54	-	-	113
Solar Gen (MU)*	55.18	40.36	45.27	4.82	0.29	146
Energy Shortage (MU)	5.58	0.00	0.00	2.70	0.00	8.28
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48097	57000	33549	18490	2500	153878
Time Of Maximum Demand Met (From NLDC SCADA)	10:53	10:47	09:11	18:02	17:21	10:47

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	0.038	0.00	0.38	3.70	4.09	70.79	25.12

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	6004	0	117.5	59.0	-1.5	130	0.00
	Haryana	5902	0	114.7	80.5	-0.1	117	0.00
	Rajasthan	13670	0	250.3	70.9	-0.1	397	0.00
	Delhi	3450	0	58.8	47.4	-1.1	225	0.00
	UP	14642	0	277.0	104.8	-1.3	908	0.25
	Uttarakhand	1866	0	34.2	23.0	0.8	97	0.00
	HP	1572	0	27.6	18.9	-0.1	111	1.88
	J&K(UT) & Ladakh(UT)	2662	250	54.6	50.1	-2.8	175	3.45
	Chandigarh	171	0	2.9	3.6	-0.7	3	0.00
	WR	Chhattisgarh	3356	0	73.9	23.8	-0.1	266
Gujarat		16908	0	347.0	195.2	-0.6	526	0.00
MP		14370	0	287.7	186.5	-1.9	488	0.00
Maharashtra		22017	0	473.0	147.3	-8.2	567	0.00
Goa		545	0	10.9	10.7	-0.4	78	0.00
DD		311	0	7.0	6.9	0.1	21	0.00
DNH		812	0	18.9	19.0	-0.1	44	0.00
AMNSIL		872	0	18.1	9.2	0.0	292	0.00
SR	Andhra Pradesh	6837	0	143.3	59.7	-0.8	425	0.00
	Telangana	7143	0	144.5	50.7	-0.8	620	0.00
	Karnataka	6863	0	132.9	16.2	-2.2	465	0.00
	Kerala	3174	0	65.4	25.5	-0.6	223	0.00
	Tamil Nadu	10678	0	229.4	119.3	-3.6	402	0.00
	Puducherry	308	0	6.3	6.7	-0.3	35	0.00
ER	Bihar	4166	0	72.4	61.9	-0.4	357	0.00
	DVC	3193	0	65.1	-33.1	-1.9	333	1.55
	Jharkhand	1445	0	27.7	23.2	-0.7	194	1.15
	Odisha	5004	0	98.1	39.4	0.1	410	0.00
	West Bengal	5794	0	107.3	-9.9	0.2	368	0.00
	Sikkim	96	0	1.5	1.4	0.1	60	0.00
NER	Arunachal Pradesh	130	0	2.4	2.1	0.1	87	0.00
	Assam	1389	0	23.2	16.6	-0.2	85	0.00
	Manipur	209	0	2.7	2.9	-0.3	33	0.00
	Meghalaya	352	0	6.5	5.0	0.1	59	0.00
	Mizoram	109	0	1.7	1.4	-0.2	9	0.00
	Nagaland	123	0	2.1	2.1	-0.1	78	0.00
	Tripura	210	0	3.4	1.7	-0.3	17	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	11.2	1.4	-17.4
Day Peak (MW)	540.0	86.0	-851.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	183.0	-102.1	59.6	-134.0	-6.5	0.0
Actual(MU)	190.2	-107.0	54.7	-130.6	-5.9	1.4
O/D/U/D(MU)	7.2	-4.9	-4.9	3.4	0.6	1.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6920	14945	12672	3780	384	38700	46
State Sector	13660	19030	10906	2658	11	46264	54
Total	20580	33975	23578	6438	395	84964	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	515	1177	357	478	10	2537	75
Lignite	23	14	20	0	0	58	2
Hvdro	117	32	88	44	13	294	9
Nuclear	23	33	69	0	0	125	4
Gas, Naptha & Diesel	15	8	25	0	29	78	2
RES (Wind, Solar, Biomass & Others)	83	91	125	5	0	304	9
Total	777	1356	684	527	53	3397	100
Share of RES in total generation (%)	10.66	6.74	18.28	0.92	0.55	8.96	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.68	11.55	41.23	9.29	25.71	21.32	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
Based on State Max Demands	1.081

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: 29-Nov-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	500	0.0	12.7	-12.7
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	96	532	0.0	5.5	-5.5
4	765 kV	SASARAM-FATEHPUR	1	0	460	0.0	6.6	-6.6
5	765 kV	GAYA-BALIA	1	0	453	0.0	8.0	-8.0
6	400 kV	PUSAULI-VARANASI	1	0	185	0.0	3.5	-3.5
7	400 kV	PUSAULI-ALLAHABAD	1	0	137	0.0	2.4	-2.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	635	0.0	8.6	-8.6
9	400 kV	PATNA-BALIA	4	0	941	0.0	14.9	-14.9
10	400 kV	BIHARSHARIFF-BALIA	2	0	401	0.0	5.8	-5.8
11	400 kV	MOTIHARI-GORAKHPUR	2	0	369	0.0	5.2	-5.2
12	400 kV	BIHARSHARIFF-VARANASI	2	66	231	0.0	1.4	-1.4
13	220 kV	PUSAULI-SAHUPURI	1	22	64	0.0	0.5	-0.5
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
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	81.1	-80.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	873	292	7.7	0.0	7.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	40	873	0.0	6.7	-6.7
3	765 kV	JHARSUGUDA-DURG	2	148	172	0.1	0.0	0.1
4	400 kV	JHARSUGUDA-RAIGARH	4	208	112	1.5	0.0	1.5
5	400 kV	RANCHI-SIPAT	2	78	265	0.0	1.1	-1.1
6	220 kV	BUDHIPADAR-RAIGARH	1	24	80	0.0	0.6	-0.6
7	220 kV	BUDHIPADAR-KORBA	2	149	0	2.1	0.0	2.1
						ER-WR	11.4	3.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	385	0.0	8.5	-8.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1987	0.0	35.5	-35.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2777	0.0	44.6	-44.6
4	400 kV	TALCHER-I/C	2	433	854	0.6	0.0	0.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
						ER-SR	88.6	-88.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	292	0.0	4.2	-4.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	89	247	0.0	1.3	-1.3
3	220 kV	ALIPURDUAR-SALAKATI	2	7	56	0.0	0.4	-0.4
						ER-NER	6.0	-6.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALL-AGRA	2	0	504	0.0	12.2	-12.2
						NER-NR	12.2	-12.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2268	0.0	38.2	-38.2
2	HVDC	VINDHYACHAL B/B	-	449	0	11.1	0.0	11.1
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	249	0.0	0.2	-0.2
4	765 kV	GWALIOR-AGRA	2	0	1704	0.0	24.5	-24.5
5	765 kV	GWALIOR-PHAGI	2	0	2073	0.0	35.0	-35.0
6	765 kV	JABALPUR-ORAI	2	0	878	0.0	25.7	-25.7
7	765 kV	GWALIOR-ORAI	1	797	0	14.9	0.0	14.9
8	765 kV	SATNA-ORAI	1	0	1108	0.0	21.6	-21.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1206	0	20.2	0.0	20.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2018	0.0	39.1	-39.1
11	400 kV	ZERDA-KANKROLI	1	276	0	4.7	0.0	4.7
12	400 kV	ZERDA -BHINMAL	1	337	35	5.1	0.0	5.1
13	400 kV	VINDHYACHAL -RIHAND	1	964	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUALPUR	2	83	330	0.2	1.9	-1.7
15	220 kV	BHANPURA-RANPUR	1	114	0	1.7	0.0	1.7
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8
17	220 kV	MEHGAON-AURAIYA	1	153	0	1.7	0.0	1.7
18	220 kV	MALANPUR-AURAIYA	1	110	0	2.6	0.0	2.6
19	132 kV	GWALIOR-SAWAIMADHOPUR	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	187.0	-103.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	493	0	12.0	0.0	12.0
2	HVDC	RAIGARH-PUGALUR	2	1002	0	21.1	0.0	21.1
3	765 kV	SOLAPUR-RAICHUR	2	754	2221	0.0	14.2	-14.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2668	0.0	35.8	-35.8
5	400 kV	KOLHAPUR-KUDGI	2	1006	0	14.7	0.0	14.7
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	1	94	1.6	0.0	1.6
						WR-SR	49.4	-0.6

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)	159	0	136	3.3
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	353	349	353	8.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.0
	NER	132kV GELEPHU-SALAKATI	5	1	3	0.1
	NER	132kV MOTANGA-RANGIA	25	2	11	0.3
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	86	33	59	1.4
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-741	-456	-635	-15.2
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-110	0	-91	-2.2