



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: 7th 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 06.12.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 6-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 6th 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: 07-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)	48671	54102	39367	17845	2371	162356
Peak Shortage (MW)	0	0	0	269	0	269
Energy Met (MU)	988	1204	824	364	43	3423
Hydro Gen (MU)	118	31	95	42	11	299
Wind Gen (MU)	13	74	8	-	-	95
Solar Gen (MU)*	50.25	33.70	87.25	4.23	0.21	176
Energy Shortage (MU)	4.65	0.00	0.00	2.69	0.00	7.34
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50008	56897	39780	18310	2459	164768
Time Of Maximum Demand Met (From NLDC SCADA)	11:56	10:29	18:39	17:49	17:15	18:26

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	0.029	0.00	0.06	4.70	4.76	77.63	17.61

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	7007	0	136.8	91.4	-1.8	121	0.00
	Haryana	6432	0	120.6	83.5	0.6	168	0.00
	Rajasthan	14201	0	257.5	75.4	1.5	340	0.00
	Delhi	3608	0	62.2	51.4	-1.8	308	0.00
	UP	16026	0	284.3	114.3	1.1	510	0.00
	Uttarakhand	1917	0	36.0	24.3	0.4	162	0.00
	HP	1722	0	32.2	22.9	0.3	373	0.00
	J&K(UT) & Ladakh(UT)	2682	0	55.6	49.8	0.4	176	4.65
	Chandigarh	196	0	3.2	3.8	-0.6	23	0.00
WR	Chhattisgarh	3506	0	76.3	24.7	0.0	172	0.00
	Gujarat	16624	0	346.1	183.4	-0.5	782	0.00
	MP	13858	0	275.7	168.2	-1.9	494	0.00
	Maharashtra	21182	0	449.5	136.3	-2.6	592	0.00
	Goa	560	0	11.5	10.9	-0.1	60	0.00
	DD	327	0	7.1	7.0	0.1	31	0.00
	DNH	828	0	19.0	18.9	0.1	49	0.00
SR	AMNSIL	893	0	18.4	8.7	0.3	324	0.00
	Andhra Pradesh	7720	0	153.2	80.8	0.5	413	0.00
	Telangana	8568	0	166.3	66.7	-0.5	571	0.00
	Karnataka	7988	0	155.2	38.1	-1.4	489	0.00
	Kerala	3679	0	74.7	40.4	-0.7	207	0.00
	Tamil Nadu	13316	0	266.8	162.9	-0.1	485	0.00
ER	Puducherry	372	0	7.5	7.8	-0.3	40	0.00
	Bihar	4291	0	74.1	62.9	-0.3	256	0.00
	DVC	3094	0	64.3	-36.6	-1.0	339	1.36
	Jharkhand	1401	0	25.9	21.4	-1.7	152	1.32
	Odisha	4678	0	92.2	27.9	-1.2	266	0.00
	West Bengal	5995	0	106.5	-17.1	0.8	403	0.00
NER	Sikkim	100	0	1.4	1.3	0.1	54	0.00
	Arunachal Pradesh	115	0	2.4	2.0	0.2	35	0.00
	Assam	1408	0	23.9	17.7	0.4	132	0.00
	Manipur	200	0	2.9	3.0	-0.1	20	0.00
	Meghalaya	384	0	7.2	6.1	0.0	21	0.00
	Mizoram	113	0	1.7	1.6	-0.1	20	0.00
	Nagaland	125	0	2.3	2.0	0.1	18	0.00
	Tripura	159	0	2.6	0.7	-0.6	45	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	9.0	0.1	-15.4
Day Peak (MW)	441.0	-50.5	-778.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	246.5	-165.0	92.7	-171.4	-2.8	0.0
Actual(MU)	256.8	-175.0	89.7	-172.6	-2.2	-3.4
O/D/U/D(MU)	10.2	-10.0	-3.0	-1.2	0.5	-3.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7897	14295	9342	3020	769	35322	44
State Sector	13476	18494	10241	2408	11	44629	56
Total	21373	32788	19583	5428	780	79951	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	490	1197	419	519	8	2633	75
Lignite	23	15	36	0	0	74	2
Hydro	118	31	95	42	11	299	8
Nuclear	23	33	69	0	0	125	4
Gas, Naptha & Diesel	16	8	8	0	29	61	2
RES (Wind, Solar, Biomass & Others)	90	109	121	4	0	325	9
Total	760	1393	750	566	49	3517	100
Share of RES in total generation (%)	11.85	7.82	16.19	0.75	0.43	9.23	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.45	12.46	38.11	8.25	23.79	21.29	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.064

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: 07-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	502	0.0	12.3	-12.3
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.0	-6.0
3	765 kV	GAYALYANASI	2	0	948	0.0	13.7	-13.7
4	765 kV	SASARAM-FATEHPUR	1	0	633	0.0	9.8	-9.8
5	765 kV	GAYA-BALIA	1	0	484	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	0	138	0.0	2.7	-2.7
7	400 kV	PUSAULI-ALLAHABAD	1	0	178	0.0	3.3	-3.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	720	0.0	10.2	-10.2
9	400 kV	PATNA-BALIA	4	0	996	0.0	16.2	-16.2
10	400 kV	BIHARSHARIFF-BALIA	2	0	332	0.0	4.3	-4.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	432	0.0	6.9	-6.9
12	400 kV	BIHARSHARIFF-VARANASI	2	0	381	0.0	5.7	-5.7
13	220 kV	PUSAULI-SAHUPURI	1	0	155	0.0	1.8	-1.8
14	132 kV	SONENAGAR-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	101.0	-100.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	697	826	0.0	1.9	-1.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	101	878	0.0	6.3	-6.3
3	765 kV	JHARSUGUDA-DURG	2	0	399	0.0	4.1	-4.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	590	0.0	8.0	-8.0
5	400 kV	RANCHI-SIPAT	2	63	320	0.0	1.9	-1.9
6	220 kV	BUDHIPADAR-RAIGARH	1	41	102	0.0	0.8	-0.8
7	220 kV	BUDHIPADAR-KORBA	2	141	0	1.6	0.0	1.6
						ER-WR	1.6	-21.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	388	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1983	0.0	39.1	-39.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2649	0.0	41.9	-41.9
4	400 kV	TALCHER-I/C	2	926	618	3.9	0.0	3.9
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
						ER-SR	89.7	-89.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	337	0.0	5.4	-5.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	4	313	0.0	3.3	-3.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	75	0.0	0.9	-0.9
						ER-NER	9.7	-9.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.1	-12.1
						NER-NR	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3517	0.0	47.1	-47.1
2	HVDC	VINDHYACHAL B/B	-	227	53	2.7	0.7	2.0
3	HVDC	MUNDRAMOHINDERGARH	2	0	254	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	2323	0.0	32.5	-32.5
5	765 kV	GWALIOR-PHAGI	2	0	2524	0.0	37.2	-37.2
6	765 kV	JABALPUR-ORAI	2	0	1126	0.0	32.1	-32.1
7	765 kV	GWALIOR-ORAI	1	895	0	15.4	0.0	15.4
8	765 kV	SATNA-ORAI	1	0	1281	0.0	22.4	-22.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1088	0	12.3	0.0	12.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	1919	0.0	32.1	-32.1
11	400 kV	ZERDA-KANKROLI	1	224	0	3.1	0.0	3.1
12	400 kV	ZERDA -BHINMAL	1	188	146	2.2	0.0	2.2
13	400 kV	VINDHYACHAL -RIHAND	1	973	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUALPUR	2	15	530	0.0	4.1	-4.1
15	220 kV	BHANPURA-RANPUR	1	72	68	0.7	0.2	0.5
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3
17	220 kV	MEHGAON-AURAIYA	1	143	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	101	0	2.3	0.0	2.3
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	62.6	-153.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	265	0.0	6.2	-6.2
2	HVDC	RAIGARH-PUGALUR	2	0	605	0.0	14.6	-14.6
3	765 kV	SOLAPUR-RAICHUR	2	1926	2055	7.6	15.5	-7.9
4	765 kV	WARDHA-NIZAMABAD	2	372	2211	0.7	29.9	-29.2
5	400 kV	KOLHAPUR-KUDGI	2	1207	0	13.4	0.0	13.4
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	88	1.1	1.1	0.0
						WR-SR	22.9	-43.3

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)	147	0	123	3.0
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	236	0	220	5.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	37	0	20	0.5
	NER	132kV GELEPHU-SALAKATI	7	2	4	0.1
	NER	132kV MOTANGA-RANGIA	14	4	8	0.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	-126	-2	-28	-0.7
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	76	-24	31	0.7
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-705	-419	-586	-14.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-73	0	-58	-1.4