



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: 15th Apr 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 14.04.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-अप्रैल-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 14th April 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: 15-Apr-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 20:00 hrs; from RLDCs)	51449	51003	41128	22880	2545	169005
Peak Shortage (MW)	350	0	0	0	9	359
Energy Met (MU)	1063	1304	1039	507	45	3958
Hydro Gen (MU)	104	37	58	36	12	246
Wind Gen (MU)	31	70	35	-	-	136
Solar Gen (MU)*	48.36	33.83	89.55	5.01	0.19	177
Energy Shortage (MU)	7.30	0.00	0.00	0.00	1.84	9.14
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51941	57709	52504	23346	2763	174665
Time Of Maximum Demand Met (From NLDC SCADA)	19:45	15:11	12:31	23:29	18:32	12:31

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	0.036	0.00	0.60	4.98	5.58	76.44	17.98

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	6327	0	132.7	58.4	-0.4	146	0.00
	Haryana	7172	25	137.5	92.1	0.4	279	0.37
	Rajasthan	10807	0	223.0	37.3	-1.3	452	0.29
	Delhi	4013	0	85.9	70.6	-1.7	75	0.00
	UP	19325	0	358.6	128.8	0.4	451	0.24
	Uttarakhand	1879	0	38.7	24.3	0.2	126	0.00
	HP	1488	0	29.7	21.0	0.3	141	0.00
	J&K(UT) & Ladakh(UT)	2719	350	52.7	43.2	1.2	380	6.40
Chandigarh	201	0	3.9	3.5	0.4	30	0.00	
WR	Chhattisgarh	4564	0	111.1	48.7	-0.5	203	0.00
	Gujarat	18727	0	399.5	118.4	2.7	621	0.00
	MP	10884	0	227.8	131.9	-3.9	543	0.00
	Maharashtra	23765	0	511.4	168.7	-6.3	600	0.00
	Goa	496	0	10.7	10.2	-0.1	51	0.00
	DD	308	0	6.8	7.0	-0.2	16	0.00
	DNH	819	0	19.2	19.1	0.1	38	0.00
	AMNSIL	843	0	17.7	2.1	0.0	271	0.00
SR	Andhra Pradesh	10544	0	205.1	96.7	0.7	901	0.00
	Telangana	9730	0	190.6	82.8	-1.0	804	0.00
	Karnataka	12651	0	230.7	69.9	-0.8	762	0.00
	Kerala	3417	0	73.2	58.2	-0.2	254	0.00
	Tamil Nadu	14973	0	330.7	213.5	-4.4	349	0.00
	Puducherry	407	0	8.7	9.1	-0.4	11	0.00
ER	Bihar	5805	0	114.4	99.2	4.6	326	0.00
	DVC	3160	0	70.3	-48.5	0.4	406	0.00
	Jharkhand	1628	0	30.6	26.5	-1.2	167	0.00
	Odisha	4759	0	99.2	33.9	-0.4	666	0.00
	West Bengal	9283	0	191.9	62.3	-0.1	219	0.00
Sikkim	59	0	0.8	1.4	-0.6	31	0.00	
NER	Arunachal Pradesh	127	2	2.2	2.4	-0.3	14	0.01
	Assam	1489	5	25.7	20.3	0.6	139	1.80
	Manipur	183	2	2.6	2.5	0.1	17	0.01
	Meghalaya	321	0	5.6	4.3	0.2	49	0.00
	Mizoram	109	5	1.6	1.7	-0.1	11	0.01
	Nagaland	136	2	2.2	2.2	0.0	27	0.01
	Tripura	294	2	5.3	4.0	0.8	64	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.7	-16.1	-24.3
Day Peak (MW)	260.0	-807.5	-1028.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	188.5	-301.1	164.0	-60.6	9.2	0.0
Actual(MU)	195.5	-320.7	153.4	-43.3	10.5	-4.7
O/D/U/D(MU)	6.9	-19.7	-10.5	17.3	1.3	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5237	12158	6652	1348	1460	26855	43
State Sector	12812	12186	5375	4623	11	35007	57
Total	18049	24344	12027	5971	1471	61862	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	595	1413	599	546	12	3165	78
Lignite	22	8	37	0	0	67	2
Hydro	104	37	58	36	12	246	6
Nuclear	31	33	43	0	0	107	3
Gas, Naptha & Diesel	37	44	12	0	16	109	3
RES (Wind, Solar, Biomass & Others)	100	104	155	5	0	364	9
Total	889	1638	904	587	40	4057	100

Share of RES in total generation (%)	11.23	6.35	17.15	0.86	0.47	8.97
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.41	10.62	28.29	6.96	29.47	17.67

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.078
Based on State Max Demands	1.107

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: 15-Apr-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	-	0	247	0.0	6.2	-6.2	
3	765 kV	GAYA-VARANASI	2	50	365	0.0	5.8	-5.8	
4	765 kV	SASARAM-FATEHPUR	1	73	179	0.0	0.9	-0.9	
5	765 kV	GAYA-BALIA	1	0	393	0.0	5.9	-5.9	
6	400 kV	PUSAULI-VARANASI	1	0	240	0.0	5.4	-5.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	58	0.0	0.6	-0.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	301	345	0.0	2.1	-2.1	
9	400 kV	PATNA-BALIA	4	0	729	0.0	12.1	-12.1	
10	400 kV	BIHARSHARIFF-BALIA	2	160	145	0.0	0.6	-0.6	
11	400 kV	MOTIHARI-GORAKHPUR	2	119	264	0.0	2.6	-2.6	
12	400 kV	BIHARSHARIFF-VARANASI	2	179	90	0.0	0.0	0.0	
13	220 kV	PUSAULI-SAHUPURI	1	35	106	0.0	1.1	-1.1	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	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-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.3	43.4	-43.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1932	0	26.9	0.0	26.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1427	61	19.0	0.0	19.0	
3	765 kV	JHARSUGUDA-DURG	2	212	85	2.0	0.0	2.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	141	186	0.0	0.0	0.0	
5	400 kV	RANCHI-SIPAT	2	349	49	4.2	0.0	4.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	142	0.0	2.4	-2.4	
7	220 kV	BUDHIPADAR-KORBA	2	177	0	3.0	0.0	3.0	
						ER-WR	55.1	2.4	52.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	534	0.0	9.0	-9.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1978	0.0	37.7	-37.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3002	0.0	55.0	-55.0	
4	400 kV	TALCHER-I/C	2	406	472	4.0	0.0	4.0	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	101.7	-101.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	171	132	0.7	0.6	0.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	286	149	0.3	0.0	0.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	53	26	0.3	0.0	0.3	
						ER-NER	1.3	0.6	0.7
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	497	0	11.8	0.0	11.8	
						NER-NR	11.8	0.0	11.8
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1505	0.0	58.9	-58.9	
2	HVDC	VINDHYACHAL B/B	-	137	155	0.2	3.3	-3.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1921	0.0	43.2	-43.2	
4	765 kV	GWALIOR-AGRA	2	0	2818	0.0	48.3	-48.3	
5	765 kV	PHAGI-GWALIOR	2	0	1469	0.0	24.8	-24.8	
6	765 kV	JABALPUR-ORAI	2	966	958	0.0	31.5	-31.5	
7	765 kV	GWALIOR-ORAI	1	753	0	13.3	0.0	13.3	
8	765 kV	SATNA-ORAI	1	0	1471	0.0	29.9	-29.9	
9	765 kV	CHITORGARH-BANASKANTHA	2	1469	0	18.9	0.0	18.9	
10	400 kV	ZERDA-KANKROLI	1	418	0	5.5	0.0	5.5	
11	400 kV	ZERDA-BHINMAL	1	719	0	8.7	0.0	8.7	
12	400 kV	VINDHYACHAL -RIHAND	1	973	0	22.3	0.0	22.3	
13	400 kV	RAPP-SHUJALPUR	2	235	342	0.7	2.8	-2.2	
14	220 kV	BHANPURA-RANPUR	1	4	73	0.0	0.7	-0.7	
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.4	-0.3	
16	220 kV	MEHGAON-AURAIYA	1	110	4	0.4	0.1	0.4	
17	220 kV	MALANPUR-AURAIYA	1	72	25	1.0	0.0	1.0	
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	71.1	243.9	-172.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	12.6	-12.6	
2	HVDC	RAIGARH-PUGALUR	2	0	2008	0.0	28.7	-28.7	
3	765 kV	SOLAPUR-RAICHUR	2	0	2149	0.0	28.3	-28.3	
4	765 kV	WARDHA-NIZAMABAD	2	0	2634	0.0	42.0	-42.0	
5	400 kV	KOLHAPUR-KUDGI	2	1080	0	15.3	0.0	15.3	
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	118	2.1	0.0	2.1	
						WR-SR	17.4	111.6	-94.1
INTERNATIONAL EXCHANGES									
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)			
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	157	0	137	3.3			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	55	49	55	1.3			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.9			
	NER	132KV-GEYLEGPHU - SALAKATI	30	4	12	0.3			
	NER	132kV Motanga-Rangia	24	1	-6	-0.1			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-80	0	-71	-1.7			
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-384	-169	-335	-8.0			
	ER	132KV-BIHAR - NEPAL	-344	-150	-266	-6.4			
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-864	0	-859	-20.6			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	82	0	-78	-1.9			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	82	0	-73	-1.8			