



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: 25th 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 24.04.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-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 24th 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: 25-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)	45898	51292	42861	23080	2778	165909
Peak Shortage (MW)	490	0	0	0	65	555
Energy Met (MU)	961	1307	1024	497	49	3838
Hydro Gen (MU)	147	46	72	44	10	318
Wind Gen (MU)	21	57	22	-	-	100
Solar Gen (MU)*	51.78	36.65	106.20	5.10	0.22	200
Energy Shortage (MU)	6.58	0.00	0.00	0.00	1.33	7.91
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46994	57668	47929	23716	2890	169658
Time Of Maximum Demand Met (From NLDC SCADA)	19:55	15:11	12:46	23:01	19:00	22:28

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	1.72	3.99	5.72	76.17	18.11

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	5571	0	114.6	67.2	-1.3	106	0.00
	Haryana	6676	0	125.3	96.0	0.8	233	0.00
	Rajasthan	11088	0	214.3	51.2	-1.9	421	0.18
	Delhi	2746	0	59.7	43.6	-1.6	0	0.00
	UP	17905	0	329.1	101.2	-2.2	543	0.00
	Uttarakhand	1628	0	35.4	16.8	0.4	154	0.00
	HP	1504	0	28.0	14.2	-0.5	44	0.00
	J&K(UT) & Ladakh(UT)	2722	350	51.8	37.0	0.6	329	6.40
	Chandigarh	162	0	3.0	3.3	-0.3	17	0.00
	Chhattisgarh	4297	0	103.7	38.9	-0.3	240	0.00
WR	Gujarat	17962	0	384.0	125.4	2.9	608	0.00
	MP	10685	0	231.3	114.8	-2.0	528	0.00
	Maharashtra	23688	0	534.1	183.1	-4.2	889	0.00
	Goa	526	0	11.8	11.7	-0.4	33	0.00
	DD	306	0	6.9	6.8	0.1	25	0.00
	DNH	755	0	17.7	17.7	0.0	46	0.00
	AMNSIL	758	0	17.2	2.1	0.0	246	0.00
SR	Andhra Pradesh	9473	0	193.5	88.3	0.9	606	0.00
	Telangana	8971	0	185.4	80.2	0.4	588	0.00
	Karnataka	9973	0	201.4	61.0	-0.1	537	0.00
	Kerala	3732	0	77.9	57.3	0.4	318	0.00
	Tamil Nadu	16183	0	356.7	246.6	2.0	697	0.00
	Puducherry	427	0	9.2	9.3	-0.1	32	0.00
	DVC	3042	0	68.8	-47.0	0.6	315	0.00
ER	Bihar	5639	0	110.7	99.0	2.3	300	0.00
	Jharkhand	1662	0	29.4	22.1	-1.1	183	0.00
	Odisha	5443	0	114.4	47.2	0.4	476	0.00
	West Bengal	8619	0	173.1	39.5	-0.3	290	0.00
	Sikkim	73	0	1.0	1.6	-0.5	6	0.00
NER	Arunachal Pradesh	138	1	2.1	2.1	-0.1	78	0.01
	Assam	1773	0	31.6	27.1	0.3	204	0.00
	Manipur	202	1	2.5	2.5	0.0	39	0.01
	Meghalaya	249	0	4.4	1.7	0.6	56	1.29
	Mizoram	112	1	1.7	1.6	-0.1	16	0.01
	Nagaland	138	1	2.2	2.0	0.2	32	0.01
	Tripura	288	0	4.8	5.2	0.5	81	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.3	-16.0	-23.2
Day Peak (MW)	361.0	-761.1	-1008.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	144.4	-266.2	167.3	-61.9	16.4	0.0
Actual(MU)	122.1	-274.6	186.7	-60.1	20.0	-6.0
O/D/U/D(MU)	-22.3	-8.4	19.4	1.8	3.5	-6.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5747	13273	7822	1148	1310	29300	44
State Sector	12005	12798	8275	4895	77	38050	56
Total	17752	26071	16097	6043	1387	67350	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	518	1390	520	547	12	2987	76
Lignite	24	11	45	0	0	80	2
Hvdro	147	46	72	44	10	318	8
Nuclear	30	21	49	0	0	100	3
Gas, Naptha & Diesel	37	38	11	0	13	98	2
RES (Wind, Solar, Biomass & Others)	98	94	154	5	0	351	9
Total	853	1600	852	596	35	3935	100
Share of RES in total generation (%)	11.53	5.87	18.03	0.86	0.63	8.92	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.25	10.00	32.32	8.24	28.92	19.56	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.056
Based on State Max Demands	1.091

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: 25-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	5.7	-5.7
3	765 kV	GAYA-VARANASI	2	142	331	0.0	4.0	-4.0
4	765 kV	SASARAM-FATEHPUR	1	79	144	0.0	0.7	-0.7
5	765 kV	GAYA-BALIA	1	0	384	0.0	6.6	-6.6
6	400 kV	PUSAULI-VARANASI	1	0	258	0.0	5.3	-5.3
7	400 kV	PUSAULI-ALLAHABAD	1	0	53	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	327	338	0.0	2.2	-2.2
9	400 kV	PATNA-BALIA	4	16	670	0.0	10.6	-10.6
10	400 kV	BIHARSHARIFF-BALIA	2	180	100	0.0	0.3	-0.3
11	400 kV	MOTIHARI-GORAKHPUR	2	129	265	0.0	3.0	-3.0
12	400 kV	BIHARSHARIFF-VARANASI	2	126	112	0.0	0.6	-0.6
13	220 kV	PUSAULI-SAHUPURI	1	33	90	0.0	0.9	-0.9
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	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	0.4	-40.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	2000	0	35.7	0.0	35.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	952	94	12.2	0.0	12.2
3	765 kV	JHARSUGUDA-DURG	2	145	107	0.9	0.0	0.9
4	400 kV	JHARSUGUDA-RAIGARH	4	196	125	1.7	0.0	1.7
5	400 kV	RANCHI-SIPAT	2	220	65	2.5	0.0	2.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	166	0.0	2.8	-2.8
7	220 kV	BUDHIPADAR-KORBA	2	154	0	2.7	0.0	2.7
						ER-WR	55.8	2.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	529	0.0	11.3	-11.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	39.4	-39.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	3084	0.0	63.0	-63.0
4	400 kV	TALCHER-I/C	2	421	209	5.0	0.0	5.0
5	220 kV	BALMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	0.0	113.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	287	0.0	3.0	-3.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	416	0.0	5.0	-5.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	77	0.0	1.1	-1.1
						ER-NER	0.0	9.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALL-AGRA	2	496	0	11.5	0.0	11.5
						NER-NR	11.5	0.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	0	0.0	24.3	-24.3
2	HVDC	VINDHYACHAL B/B	-	166	0	4.9	0.0	4.9
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	1456	0.0	31.7	-31.7
4	765 kV	GWALIOR-AGRA	2	0	2363	0.0	40.0	-40.0
5	765 kV	PHAGI-GWALIOR	2	0	1656	0.0	26.4	-26.4
6	765 kV	JABALPUR-ORAI	2	257	793	0.0	24.3	-24.3
7	765 kV	GWALIOR-ORAI	1	784	0	13.4	0.0	13.4
8	765 kV	SATNA-ORAI	1	0	1401	0.0	28.2	-28.2
9	765 kV	CHITORGARH-BANASKANTHA	2	1522	0	20.0	0.0	20.0
10	400 kV	ZERDA-KANKROLI	1	413	0	5.9	0.0	5.9
11	400 kV	ZERDA-BHNMAL	1	612	0	8.8	0.0	8.8
12	400 kV	VINDHYACHAL-RIHAND	1	980	0	22.5	0.0	22.5
13	400 kV	RAPP-SHULALPUR	2	198	289	0.6	2.9	-2.3
14	220 kV	BHANPURA-RANPUR	1	14	72	0.0	0.8	-0.8
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.4	-0.3
16	220 kV	MEHGAON-AURAIYA	1	98	0	0.3	0.1	0.2
17	220 kV	MALANPUR-AURAIYA	1	64	16	0.8	0.0	0.8
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	77.2	179.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	715	0.0	12.4	-12.4
2	HVDC	RAIGARH-PUGALUR	2	0	2007	0.0	33.5	-33.5
3	765 kV	SOLAPUR-RAICHUR	2	0	2706	0.0	34.2	-34.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2740	0.0	45.7	-45.7
5	400 kV	KOLHAPUR-KUDGI	2	560	287	3.5	0.0	3.5
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	1.8	0.0	1.8
8	220 kV	XELDEM-AMBEWADI	1	0	89	1.8	0.0	1.8
						WR-SR	5.3	125.7

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)	191	0	159	3.8
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	146	91	112	2.7
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	46	8	13	0.3
	NER	132KV-GEYLEGPHU - SALAKATI	-40	-16	-22	-0.5
	NER	132KV Motanga-Rangia	18	0	3	0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-77	0	-71	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-387	-271	-344	-8.3
	ER	132KV-BIHAR - NEPAL	-297	-198	-251	-6.0
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-858	0	-854	-20.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	75	0	-57	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	75	0	-57	-1.4