



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: 5th May 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 04.05.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-मई -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 04th May 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: 05-May-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)	47464	49511	41486	18876	2437	159774
Peak Shortage (MW)	350	0	0	0	4	354
Energy Met (MU)	1092	1231	1020	383	42	3769
Hydro Gen (MU)	182	48	67	40	10	348
Wind Gen (MU)	29	62	19	-	-	110
Solar Gen (MU)*	47.64	36.33	97.08	4.98	0.11	186
Energy Shortage (MU)	6.99	0.00	0.00	0.00	0.04	7.03
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50268	55576	47699	19516	2605	168124
Time Of Maximum Demand Met (From NLDC SCADA)	11:30	14:40	10:41	20:27	18:46	11:36

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	0.035	0.00	0.14	5.13	5.27	71.57	23.17

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	6730	0	148.0	84.2	-1.2	180	0.00
	Haryana	7115	0	149.8	108.4	0.6	219	0.00
	Rajasthan	11075	0	226.1	55.6	-0.8	355	0.34
	Delhi	4237	0	83.9	67.4	0.0	179	0.00
	UP	18925	0	369.3	148.6	-2.9	539	0.00
	Uttarakhand	1632	0	36.3	18.7	-0.5	128	0.00
	HP	1372	0	27.1	8.7	-0.4	208	0.00
	J&K(UT) & Ladakh(UT)	2463	350	47.2	29.9	-0.1	459	6.65
	Chandigarh	229	0	4.7	5.1	-0.4	15	0.00
	Chhattisgarh	3879	0	88.0	25.6	-0.2	282	0.00
WR	Gujiarat	17712	0	368.0	111.6	-3.6	759	0.00
	MP	9568	0	209.3	131.2	-9.6	580	0.00
	Maharashtra	23342	0	516.7	156.3	-0.9	792	0.00
	Goa	548	0	11.3	11.4	-0.3	51	0.00
	DD	293	0	6.5	6.4	0.1	24	0.00
	DNH	697	0	16.1	16.1	0.0	43	0.00
	AMNSIL	765	0	15.2	1.3	0.5	280	0.00
SR	Andhra Pradesh	10200	0	202.9	115.0	1.3	583	0.00
	Telangana	8026	0	165.6	52.3	-0.1	1014	0.00
	Karnataka	10829	0	213.7	70.0	0.9	640	0.00
	Kerala	3606	0	75.7	52.7	0.4	255	0.00
	Tamil Nadu	15957	0	353.6	243.6	-2.1	507	0.00
	Puducherry	431	0	8.8	9.1	-0.3	34	0.00
	Bihar	4835	0	88.7	83.6	-0.3	265	0.00
ER	DVC	2743	0	58.8	-45.3	-0.3	271	0.00
	Jharkhand	1277	0	23.3	19.0	-0.7	301	0.00
	Odisha	4307	0	88.2	23.1	-1.4	241	0.00
	West Bengal	7204	0	123.6	11.9	-1.7	387	0.00
	Sikkim	69	0	0.9	1.1	-0.2	19	0.00
NER	Arunachal Pradesh	128	1	2.0	2.2	-0.3	28	0.01
	Assam	1513	0	25.0	21.5	-0.1	124	0.00
	Manipur	156	1	2.3	2.4	-0.1	23	0.01
	Meghalaya	314	0	5.2	3.9	0.0	17	0.00
	Mizoram	90	1	1.4	1.5	-0.2	12	0.01
	Nagaland	119	1	2.1	2.0	0.1	21	0.01
	Tripura	224	0	4.1	3.5	-0.2	52	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.7	-11.6	-21.4
Day Peak (MW)	500.0	-592.4	-1067.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	236.6	-294.5	169.5	-117.0	5.3	0.0
Actual(MU)	230.0	-287.7	181.0	-133.5	6.6	-3.6
O/D/U/D(MU)	-6.7	6.8	11.5	-16.5	1.2	-3.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5627	14277	7172	648	888	28612	44
State Sector	11580	13190	8035	4265	11	37081	56
Total	17207	27467	15207	4913	900	65693	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	525	1325	528	512	10	2900	74
Lignite	22	8	48	0	0	78	2
Hydro	182	48	67	40	10	348	9
Nuclear	30	28	59	0	0	117	3
Gas, Naptha & Diesel	28	49	12	0	21	111	3
RES (Wind, Solar, Biomass & Others)	98	98	142	5	0	343	9
Total	885	1556	857	558	41	3897	100
Share of RES in total generation (%)	11.08	6.30	16.60	0.89	0.27	8.81	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.03	11.19	31.37	8.11	25.32	20.75	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.086

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: 05-May-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	249	0.0	6.2	-6.2	
3	765 kV	GAYAVARANASI	2	0	732	0.0	12.1	-12.1	
4	765 kV	SASARAM-FATEHPUR	1	0	378	0.0	5.1	-5.1	
5	765 kV	GAYA-BALIA	1	0	481	0.0	8.9	-8.9	
6	400 kV	PUSAULI-VARANASI	1	0	210	0.0	4.2	-4.2	
7	400 kV	PUSAULI-ALLAHABAD	1	0	109	0.0	1.7	-1.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	652	0.0	10.4	-10.4	
9	400 kV	PATNA-BALIA	4	0	1010	0.0	17.7	-17.7	
10	400 kV	BIHARSHARIFF-BALIA	2	0	372	0.0	6.2	-6.2	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	419	0.0	7.4	-7.4	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	321	0.0	5.0	-5.0	
13	220 kV	PUSAULI-SAHUPURI	1	10	98	0.0	1.3	-1.3	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.6	0.0	0.6	
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	0.6	86.2	-85.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1284	0	14.2	0.0	14.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	481	501	1.9	0.0	1.9	
3	765 kV	JHARSUGUDA-DURG	2	24	218	0.0	2.5	-2.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	61	253	0.0	2.0	-2.0	
5	400 kV	RANCHI-SIPAT	2	148	130	0.4	0.0	0.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	67	0.0	1.1	-1.1	
7	220 kV	BUDHIPADAR-KORBA	2	127	0	2.1	0.0	2.1	
						ER-WR	18.4	5.6	12.9
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	420	0.0	8.9	-8.9	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1980	0.0	47.9	-47.9	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3042	0.0	58.3	-58.3	
4	400 kV	TALCHER-I/C	2	0	256	0.0	4.4	-4.4	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	115.1	-115.1
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	241	68	2.0	0.0	2.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	337	107	2.5	0.0	2.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	68	29	0.2	0.0	0.2	
						ER-NER	4.7	0.0	4.7
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	495	0	11.4	0.0	11.4	
						NER-NR	11.4	0.0	11.4
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2546	0.0	37.5	-37.5	
2	HVDC	VINDHYACHAL B/B	-	0	248	0.0	6.0	-6.0	
3	HVDC	MUNDRAM-SOHNERGARH	2	0	1923	0.0	48.4	-48.4	
4	765 kV	GWALIOR-AGRA	2	0	2715	0.0	43.1	-43.1	
5	765 kV	PHAGI-GWALIOR	2	0	1218	0.0	22.3	-22.3	
6	765 kV	JABALPUR-ORAI	2	0	762	0.0	29.2	-29.2	
7	765 kV	GWALIOR-ORAI	1	584	0	11.0	0.0	11.0	
8	765 kV	SATNA-ORAI	1	0	1342	0.0	29.5	-29.5	
9	765 kV	CHITORGARH-BANASKANTHA	2	995	0	13.5	0.0	13.5	
10	400 kV	ZERDA-KANKROLI	1	328	0	4.8	0.0	4.8	
11	400 kV	ZERDA-BHINMAL	1	538	0	7.6	0.0	7.6	
12	400 kV	VINDHYACHAL-RIHAND	1	943	0	22.1	0.0	22.1	
13	400 kV	RAPP-SHUALPUR	2	22	259	0.0	3.5	-3.5	
14	220 kV	BHANPURA-RANPUR	1	0	116	0.0	1.4	-1.4	
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.2	-1.2	
16	220 kV	MEHGAON-AURAIYA	1	68	0	0.1	0.2	-0.1	
17	220 kV	MALANPUR-AURAIYA	1	34	22	0.5	0.0	0.5	
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	59.6	222.4	-162.9
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	816	0.0	19.4	-19.4	
2	HVDC	RAIGARH-PUGALUR	2	0	3016	0.0	44.7	-44.7	
3	765 kV	SOLAPUR-RAICHUR	2	344	1929	0.4	20.7	-20.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	2157	0.0	32.5	-32.5	
5	400 kV	KOLHAPUR-KUDGI	2	570	139	4.1	0.2	3.9	
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	6.2	117.5	-111.3
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)	250	0	203	4.9			
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	173	119	154	3.7			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	79	0	7	0.2			
	NER	132KV-GEYLEGPHU - SALAKATI	-18	0	8	0.2			
	NER	132KV Motanga-Rangia	16	0	-8	-0.2			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-76	0	-65	-1.6			
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-369	-261	-327	-7.8			
	ER	132KV-BIHAR - NEPAL	-147	-21	-91	-2.2			
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-928	-538	-770	-18.5			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	70	0	-61	-1.5			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	69	0	-60	-1.5			