



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रिड कंट्रोलर ऑफ इंडिया 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 April 2024

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 28.04.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-अप्रैल-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें 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 April 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 29-Apr-2024

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)	61382	62745	50700	27854	2425	205106
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1332	1553	1301	638	50	4874
Hydro Gen (MU)	194	52	56	26	10	339
Wind Gen (MU)	8	101	38	-	-	147
Solar Gen (MU)*	159.84	94.59	136.54	3.26	0.92	395
Energy Shortage (MU)	1.61	13.84	1.08	4.98	0.00	21.51
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62339	69367	59745	30315	2585	214119
Time Of Maximum Demand Met	22:23	15:30	15:35	23:42	19:12	23:12

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	0.00	3.67	3.67	74.57	21.76

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	9296	0	157.9	50.9	-1.0	390	0.00
	Haryana	8879	0	161.1	89.8	-2.2	105	0.00
	Rajasthan	14021	0	287.2	72.5	0.3	326	1.11
	Delhi	4984	0	100.1	82.4	-0.4	83	0.00
	UP	24603	0	492.2	221.4	-0.4	382	0.00
	Uttarakhand	2141	0	45.3	23.0	0.4	212	0.14
	HP	1554	0	30.5	14.2	0.0	72	0.00
	J&K(UT) & Ladakh(UT)	2559	0	49.2	30.3	-1.0	39	0.36
	Chandigarh	210	0	4.3	4.9	-0.5	7	0.00
Railways NR ISTS	180	0	3.9	3.6	0.3	62	0.00	
WR	Chhattisgarh	5968	82	128.9	72.1	-0.7	357	0.32
	Gujarat	21790	0	457.8	149.1	-3.5	492	0.00
	MP	12395	0	275.9	164.1	-0.6	672	13.52
	Maharashtra	27184	0	615.6	187.5	-3.2	643	0.00
	Goa	741	0	15.2	10.5	4.5	0	0.00
	DNHDDPDCL	1237	0	28.5	27.7	0.8	199	0.00
	AMNSIL	861	0	18.9	7.7	0.2	326	0.00
	BALCO	524	0	12.5	12.5	0.0	12	0.00
SR	Andhra Pradesh	12704	0	246.3	74.7	-1.1	407	0.00
	Telangana	10321	0	218.9	93.2	1.1	730	0.00
	Karnataka	15359	0	309.9	141.2	-1.3	598	0.00
	Kerala	5516	308	104.8	81.4	2.5	583	1.08
	Tamil Nadu	18429	0	410.1	258.2	-0.1	554	0.00
	Puducherry	484	0	10.7	10.2	-0.2	47	0.00
ER	Bihar	6987	0	141.4	130.2	2.4	480	3.08
	DVC	3247	0	73.5	-42.7	-0.4	453	0.00
	Jharkhand	2155	0	44.9	32.9	-1.1	189	1.90
	Odisha	6190	0	127.8	51.7	-0.6	460	0.00
	West Bengal	12313	0	248.9	100.8	-0.3	390	0.00
	Sikkim	69	0	1.1	1.3	-0.2	22	0.00
Railways ER ISTS	11	0	0.1	0.2	0.0	3	0.00	
NER	Arunachal Pradesh	132	0	2.3	2.4	-0.1	35	0.00
	Assam	1486	0	29.3	23.3	-0.1	197	0.00
	Manipur	188	0	2.8	2.8	0.0	27	0.00
	Meghalaya	399	0	5.3	3.5	0.1	151	0.00
	Mizoram	93	0	1.9	1.7	-0.2	20	0.00
	Nagaland	132	0	2.1	2.2	-0.1	4	0.00
Tripura	358	0	6.4	5.1	0.9	136	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-2.2	-9.5	-22.9	-24.2
Day Peak (MW)	-39.1	-778.9	-1060.0	-1519.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	123.7	-317.1	203.0	-16.3	6.8	0.0
Actual(MU)	108.9	-327.6	210.5	-5.6	6.5	-7.2
O/D/U/D(MU)	-14.8	-10.4	7.5	10.8	-0.3	-7.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2183	5840	2652	3426	647	14748	46
State Sector	5761	6937	2805	1454	240	17195	54
Total	7944	12777	5457	4880	887	31943	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	840	1621	763	708	15	3946	75
Lignite	26	16	68	0	0	109	2
Hydro	194	52	56	26	10	339	6
Nuclear	28	52	74	0	0	154	3
Gas, Naptha & Diesel	41	78	10	0	23	152	3
RES (Wind, Solar, Biomass & Others)	180	199	202	4	1	586	11
Total	1309	2018	1172	738	49	5286	100

Share of RES in total generation (%)	13.71	9.87	17.22	0.57	1.90	11.08
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.74	15.01	28.30	4.15	22.18	20.40

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.047
Based on State Max Demands	1.100

I. All India Peak Demand and shortage at Solar and Non-Solar Hour

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	206992	14:59	0
Non-Solar hr	214119	23:12	1850

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

**Note: All generation MU figures are gross

***Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

Solar Hours -> 07:00 to 17:00hrs and rest are Non-Solar Hours

*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-Apr-2024

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	48	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	1020	279	6.7	0.0	6.7
4	765 kV	SASARAM-FATEHPUR	1	340	321	0.0	1.4	-1.4
5	765 kV	GAYA-BALIA	1	60	553	0.0	5.8	-5.8
6	400 kV	PUSAULI-VARANASI	1	0	109	0.0	1.6	-1.6
7	400 kV	PUSAULI-ALLAHABAD	1	63	22	0.3	0.0	0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	698	262	4.2	0.0	4.2
9	400 kV	PATNA-BALIA	2	389	636	0.0	4.7	-4.7
10	400 kV	NAUBATPUR-BALIA	2	178	187	0.0	1.0	-1.0
11	400 kV	BIHARSHARIFF-BALIA	2	528	18	6.3	0.0	6.3
12	400 kV	MOTIHARI-GORAKHPUR	2	292	315	0.0	1.9	-1.9
13	400 kV	BIHARSHARIFF-VARANASI	2	2	9	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	62	80	0.0	0.8	-0.8
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.9	0.0	0.9
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						18.3	18.3	0.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1848	0	27.8	0.0	27.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1277	0	21.3	0.0	21.3
3	765 kV	JHARSUGUDA-DURG	2	0	520	0.0	7.2	-7.2
4	400 kV	JHARSUGUDA-RAIGARH	4	83	449	0.0	5.5	-5.5
5	400 kV	RANCHI-SIPAT	2	270	23	3.4	0.0	3.4
6	220 kV	BUDHIPADAR-RAIGARH	1	53	107	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	94	41	0.3	0.0	0.3
ER-WR						52.8	13.6	39.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	521	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1493	0.0	32.0	-32.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2691	0.0	47.9	-47.9
4	400 kV	TALCHER-I/C	2	1292	476	5.2	0.0	5.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	92.3	-92.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	416	36	3.1	0.0	3.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	697	0	6.0	0.0	6.0
3	220 kV	ALIPURDUAR-SALAKATI	2	124	0	1.1	0.0	1.1
ER-NER						10.1	0.0	10.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	662	0	15.7	0.0	15.7
NER-NR						15.7	0.0	15.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	3015	0.0	60.0	-60.0
2	HVDC	VINDHYACHAL B/B	-	495	26	11.7	0.0	11.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1446	0.0	34.2	-34.2
4	765 kV	GWALIOR-AGRA	2	181	1769	0.2	19.5	-19.4
5	765 kV	GWALIOR-PHAGI	2	1233	1061	6.6	8.5	-1.9
6	765 kV	JABALPUR-ORAI	2	400	743	0.0	11.0	-11.0
7	765 kV	GWALIOR-ORAI	1	514	0	6.8	0.0	6.8
8	765 kV	SATNA-ORAI	1	0	914	0.0	16.0	-16.0
9	765 kV	BANASKANTHA-CHITTOGARH	2	1775	412	13.6	0.9	12.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2918	0.0	56.7	-56.7
11	400 kV	ZERDA-KANKROLI	1	377	45	3.3	0.1	3.2
12	400 kV	ZERDA-BHINMAL	1	376	46	3.3	0.1	3.2
13	400 kV	VINDHYACHAL-RIHAND	1	971	0	21.5	0.0	21.5
14	400 kV	RAPP-SHUALPUR	2	794	175	6.2	0.8	5.5
15	400 kV	NEEMUCH-Chittorgarh	2	898	141	7.2	0.5	6.7
16	220 kV	BHANPURA-RANPUR	1	0	134	0.0	2.4	-2.4
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.1	-2.1
18	220 kV	MEHGAON-AURAIYA	1	87	0	1.4	0.0	1.4
19	220 kV	MALANPUR-AURAIYA	1	64	0	0.9	0.0	0.9
20	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
21	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						82.7	212.8	-130.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	509	0.0	11.9	-11.9
2	HVDC	RAIGARH-PUGALUR	2	0	3503	0.0	60.3	-60.3
3	765 kV	SOLAPUR-RAICHUR	2	0	1064	0.0	22.1	-22.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2115	0.0	35.7	-35.7
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2685	0.0	47.1	-47.1
6	400 kV	KOLHAPUR-KUDGI	2	896	0	15.0	0.0	15.0
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	85	1.7	0.0	1.7
9	220 kV	XELDEM-AMBEWADI	1	0	117	2.2	0.0	2.2
WR-SR						18.9	177.0	-158.1

INTERNATIONAL EXCHANGES					Import(+ve)/Export(-ve)		
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 MANGDECHU HEP 4*180MW)	220	2	136	3.27	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-290	210	-94	-2.25	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-242	-109	-178	-4.28	
	NER	132kV GELEPHU-SALAKATI	14	-1	6	0.14	
	NER	132kV MOTANGA-RANGIA	48	29	38	0.91	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-74	0	-47	-1.12	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-51	-1.23	
	ER	NEPAL IMPORT (FROM BIHAR)	-315	0	-9	-0.23	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-464	-54	-288	-6.90	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-951	-659	-860	-20.63	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1519	-704	-1006	-24.15	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-109	0	-96	-2.30	

