National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर 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: 30th April 2022

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., डोंगतिएह, 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 29.04.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-अप्रैल-2022 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 29th April 2022, 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:** **30-Apr-2022**

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)	55816	62106	46382	21729	2318	188351
Peak Shortage (MW)	5922	655	640	903	0	8120
Energy Met (MU)	1303	1531	1148	546	50	4578
Hydro Gen (MU)	209	57	93	58	7	424
Wind Gen (MU)	15	131	43	-	-	189
Solar Gen (MU)*	107.91	54.93	112.98	4.73	0.77	281
Energy Shortage (MU)	156.50	25.53	9.00	22.29	0.80	214.12
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58823	68452	55543	24327	2562	207111
Time Of Maximum Demand Met (From NLDC SCADA)	13:49	15:35	11:59	00:00	18:24	14:50

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	0.166	2.36	9.92	28.64	40.92	53.76	5.32

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	8542	200	183.7	72.4	-0.6	246	21.45
	Haryana	7447	1355	156.0	84.8	3.3	347	44.09
	Rajasthan	12881	1543	259.8	73.1	0.7	308	53.46
	Delhi	6096	0	123.7	94.8	-2.1	172	0.00
	UP	20337	0	450.4	177.5	1.1	466	29.54
	Uttarakhand	2284	0	47.0	30.5	0.9	194	1.40
	HP	1564	0	32.9	12.3	-0.4	430	1.28
	J&K(UT) & Ladakh(UT)	2085	0	43.9	31.3	-1.0	209	5.28
	Chandigarh	308	0	6.0	6.1	-0.1	29	0.00
WR	Chhattisgarh	4948	268	115.3	53.8	1.6	412	6.78
	Gujarat	21382	0	453.8	202.4	-2.7	517	0.00
	MP	12533	571	274.0	133.3	2.5	627	18.75
	Maharashtra	27971	0	626.2	196.0	5.8	915	0.00
	Goa	696	0	14.0	13.1	0.6	76	0.00
	DD	347	0	7.8	7.4	0.4	49	0.00
	DNH	866	0	20.3	20.1	0.2	57	0.00
	AMNSIL	893	0	19.6	4.8	-0.4	249	0.00
SR	Andhra Pradesh	11560	180	215.2	84.3	3.8	758	3.70
	Telangana	10185	0	204.6	71.9	-1.9	354	0.00
	Karnataka	13387	0	239.7	48.8	0.4	1568	4.10
	Kerala	4116	0	90.7	59.3	-0.3	181	1.20
	Tamil Nadu	17563	0	387.8	229.6	-0.1	433	0.00
	Puducherry	465	5	9.8	10.2	-0.4	19	0.00
ER	Bihar	5749	1170	119.9	111.1	0.1	356	11.21
	DVC	3582	0	78.6	-53.0	-0.6	207	0.00
	Jharkhand	1573	0	33.2	22.4	1.6	174	8.43
	Odisha	5314	240	116.9	43.0	2.2	510	2.65
	West Bengal	9818	0	195.6	76.7	2.4	634	0.00
	Sikkim	100	0	1.7	1.4	0.3	58	0.00
NER	Arunachal Pradesh	134	0	2.2	2.2	-0.1	41	0.00
	Assam	1469	0	29.8	23.9	0.2	139	0.38
	Manipur	201	0	2.6	2.6	0.0	33	0.09
	Meghalaya	310	0	5.4	3.3	0.0	49	0.33
	Mizoram	112	0	1.7	2.0	-0.3	7	0.00
	Nagaland	146	0	2.2	2.3	-0.1	11	0.00
	Tripura	329	0	6.1	4.6	0.5	72	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.5	-5.4	-25.6
Day Peak (MW)	471.0	-398.7	-1077.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	133.2	-172.5	100.5	-63.7	2.5	0.0
Actual(MU)	130.6	-179.0	94.0	-52.6	1.4	-5.5
O/D/U/D(MU)	-2.6	-6.5	-6.5	11.1	-1.1	-5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3724	13535	5718	3085	875	26937	51
State Sector	7779	10941	4652	2120	131	25622	49
Total	11503	24476	10370	5205	1006	52559	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	763	1420	670	575	17	3444	73
Lignite	16	16	54	0	0	85	2
Hydro	209	57	93	58	7	424	9
Nuclear	21	33	46	0	0	100	2
Gas, Naptha & Diesel	37	24	16	0	29	106	2
RES (Wind, Solar, Biomass & Others)	152	187	187	5	1	532	11
Total	1197	1736	1066	638	54	4691	100

Share of RES in total generation (%)	12.69	10.77	17.58	0.74	1.43	11.34
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.91	15.93	30.60	9.87	13.56	22.49

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.013
Based on State Max Demands	1.049

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: 30-Apr-2022

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	-	3	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	329	467	0.0	1.1	-1.1
4	765 kV	SASARAM-FATEHPUR	1	0	413	0.0	5.3	-5.3
5	765 kV	GAYA-BALIA	1	0	388	0.0	6.9	-6.9
6	400 kV	PUSAULI-VARANASI	1	63	36	0.6	0.0	0.6
7	400 kV	PUSAULI -ALLAHABAD	1	70	75	0.2	0.0	0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	86	880	0.0	9.2	-9.2
9	400 kV	PATNA-BALIA	2	0	385	0.0	5.5	-5.5
10	400 kV	NAUBATPUR-BALIA	2	0	397	0.0	5.3	-5.3
11	400 kV	BIHARSHARIFF-BALIA	2	163	363	0.0	1.7	-1.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	0	0.0	0.0	0.0
13	400 kV	BIHARSHARIFF-VARANASI	2	71	231	0.0	1.6	-1.6
14	220 kV	SAHUPURI-KARAMNASA	1	0	189	0.0	2.1	-2.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
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	1.2	38.6	-37.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	11.6	0.0	11.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	982	0	13.4	0.0	13.4
3	765 kV	JHARSUGUDA-DURG	2	0	314	1.5	0.0	1.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	3.0	-3.0
5	400 kV	RANCHI-SIPAT	2	197	33	2.6	0.0	2.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	128	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	94	0	1.1	0.0	1.1
					ER-WR	30.1	4.8	25.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	345	0.0	7.5	-7.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1738	0.0	42.0	-42.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2315	0.0	45.4	-45.4
4	400 kV	TALCHER-I/C	2	178	0	3.1	0.0	3.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	95.0	-95.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	332	0	3.6	0.0	3.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	478	0	5.4	0.0	5.4
3	220 kV	ALIPURDUAR-SALAKATI	2	82	9	0.8	0.0	0.8
					ER-NER	9.8	0.0	9.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	462	0	11.1	0.0	11.1
					NER-NR	11.1	0.0	11.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	667	0.0	11.9	-11.9
2	HVDC	VINDHYACHAL B/B	-	272	0	7.3	0.0	7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	482	0	11.5	0.0	11.5
4	765 kV	GWALIOR-AGRA	2	0	1853	0.0	31.5	-31.5
5	765 kV	GWALIOR-PHAGI	2	77	1228	0.0	17.3	-17.3
6	765 kV	JABALPUR-ORAI	2	0	838	0.0	26.4	-26.4
7	765 kV	GWALIOR-ORAI	1	592	0	11.0	0.0	11.0
8	765 kV	SATNA-ORAI	1	0	1003	0.0	20.3	-20.3
9	765 kV	BANASKANTHA-CHITORGARH	2	432	623	0.0	3.9	-3.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2499	0.0	52.4	-52.4
11	400 kV	ZERDA-KANKROLI	1	163	59	1.6	0.0	1.6
12	400 kV	ZERDA -BHINMAL	1	367	184	1.0	0.0	1.0
13	400 kV	VINDHYACHAL -RIHAND	1	981	0	22.7	0.0	22.7
14	400 kV	RAPP-SHUJALPUR	2	324	337	1.5	2.3	-0.7
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0
17	220 kV	MEHGAON-AURAIYA	1	112	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	70	4	1.7	0.0	1.7
19	132 kV	GWALIOR-SAWAI MADHOPUR	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	59.2	166.0	-106.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	515	0.0	12.0	-12.0
2	HVDC	RAIGARH-PUGALUR	2	0	605	0.0	14.6	-14.6
3	765 kV	SOLAPUR-RAICHUR	2	560	1252	0.3	14.0	-13.6
4	765 kV	WARDHA-NIZAMABAD	2	0	1835	0.0	33.0	-33.0
5	400 kV	KOLHAPUR-KUDGI	2	1336	0	24.0	0.0	24.0
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	129	2.5	0.0	2.5
					WR-SR	26.7	73.5	-46.7

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)	201	0	154	3.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	213	0	158	3.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	79	0	15	0.4
	NER	132kV GELEPHU-SALAKATI	12	-5	5	0.1
	NER	132kV MOTANGA-RANGIA	-42	0	-21	-0.5
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-79	0	-61	-1.5
	ER	NEPAL IMPORT (FROM BIHAR)	-51	0	-6	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-269	80	-160	-3.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-950	-939	-945	-22.7
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-127	0	-120	-2.9