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: 29th 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 28.04.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28th 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:** **29-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)	55572	61228	45607	23114	2701	188222
Peak Shortage (MW)	6189	1870	320	2188	211	10778
Energy Met (MU)	1278	1526	1168	547	49	4567
Hydro Gen (MU)	200	56	96	63	8	423
Wind Gen (MU)	34	91	43	-	-	169
Solar Gen (MU)*	104.87	52.99	110.50	5.11	0.68	274
Energy Shortage (MU)	143.58	20.43	2.64	24.37	1.09	192.11
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57309	67380	56789	24349	2900	204653
Time Of Maximum Demand Met (From NLDC SCADA)	14:42	14:52	11:33	23:59	18:35	14:35

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	0.335	11.51	16.12	24.53	52.17	44.95	2.88

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	7906	700	174.1	72.5	-0.6	101	30.65
	Haryana	7246	1013	156.4	82.4	0.9	267	33.72
	Rajasthan	12720	767	261.4	67.0	-1.8	203	43.59
	Delhi	5942	0	121.2	95.0	-1.6	180	0.00
	UP	19446	1332	437.5	171.7	-0.2	338	29.52
	Uttarakhand	2329	0	47.4	32.5	-0.1	83	0.56
	HP	1522	0	32.3	12.0	-0.1	455	0.26
	J&K(UT) & Ladakh(UT)	2099	0	41.5	28.1	0.6	241	5.28
	Chandigarh	307	0	5.9	5.6	0.2	44	0.00
WR	Chhattisgarh	4905	0	114.3	53.3	0.1	331	6.71
	Gujarat	20935	0	445.9	197.8	0.0	732	0.00
	MP	12044	0	275.2	136.4	2.0	539	13.72
	Maharashtra	28354	0	627.8	193.3	0.9	627	0.00
	Goa	713	0	14.4	13.9	0.5	94	0.00
	DD	345	0	7.8	7.3	0.5	45	0.00
	DNH	883	0	20.6	20.0	0.6	68	0.00
	AMNSIL	870	0	19.6	5.7	-0.1	240	0.00
SR	Andhra Pradesh	11488	40	215.6	83.3	-0.4	492	1.04
	Telangana	10689	0	205.6	74.9	-1.1	454	0.00
	Karnataka	13871	0	257.4	50.6	-2.0	922	0.00
	Kerala	4281	350	92.9	56.5	1.0	300	1.60
	Tamil Nadu	17370	0	386.6	241.1	1.6	679	0.00
	Puducherry	461	0	9.7	9.8	-0.2	60	0.00
ER	Bihar	5347	1430	119.1	107.4	0.4	455	15.90
	DVC	3657	0	79.4	-52.7	-0.5	230	0.00
	Jharkhand	1439	175	31.6	21.0	1.5	238	5.78
	Odisha	5462	240	113.6	39.1	1.0	688	2.69
	West Bengal	9793	0	201.5	72.2	9.0	1151	0.00
	Sikkim	107	0	1.7	1.3	0.4	50	0.00
NER	Arunachal Pradesh	139	0	2.3	2.4	-0.2	40	0.00
	Assam	1733	0	28.8	23.0	0.0	184	0.67
	Manipur	192	16	2.6	2.7	-0.1	21	0.04
	Meghalaya	345	0	5.1	3.3	-0.1	32	0.38
	Mizoram	115	0	1.8	2.0	-0.2	9	0.00
	Nagaland	148	0	2.2	2.3	-0.1	11	0.00
	Tripura	316	0	6.0	4.7	0.2	61	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	10.9	-7.2	-25.6
Day Peak (MW)	556.0	-426.3	-1076.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	138.5	-169.3	105.5	-75.3	0.6	0.0
Actual(MU)	124.2	-171.5	98.0	-54.6	-1.4	-5.3
O/D/U/D(MU)	-14.4	-2.2	-7.6	20.8	-2.0	-5.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3944	13775	6218	3085	935	27957	53
State Sector	9253	10486	2877	1660	47	24322	47
Total	13197	24261	9095	4745	982	52279	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	743	1455	689	577	17	3481	74
Lignite	11	16	54	0	0	81	2
Hydro	200	56	96	63	8	423	9
Nuclear	21	33	46	0	0	100	2
Gas, Naptha & Diesel	33	17	15	0	29	94	2
RES (Wind, Solar, Biomass & Others)	167	145	185	5	1	503	11
Total	1176	1723	1085	644	55	4683	100

Share of RES in total generation (%)	14.22	8.44	17.06	0.80	1.23	10.75
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.04	13.61	30.14	10.52	16.33	21.92

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.053

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: 29-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	265	273	0.0	1.0	-1.0
4	765 kV	SASARAM-FATEHPUR	1	0	365	0.0	5.9	-5.9
5	765 kV	GAYA-BALIA	1	0	353	0.0	6.2	-6.2
6	400 kV	PUSAULI-VARANASI	1	73	35	0.4	0.0	0.4
7	400 kV	PUSAULI -ALLAHABAD	1	100	75	0.2	0.0	0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	50	595	0.0	9.0	-9.0
9	400 kV	PATNA-BALIA	2	0	308	0.0	5.3	-5.3
10	400 kV	NAUBATPUR-BALIA	2	0	341	0.0	5.4	-5.4
11	400 kV	BIHARSHARIFF-BALIA	2	146	268	0.0	1.3	-1.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	0	0.0	0.0	0.0
13	400 kV	BIHARSHARIFF-VARANASI	2	67	170	0.0	1.6	-1.6
14	220 kV	SAHUPURI-KARAMNASA	1	0	117	0.0	1.8	-1.8
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
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	1.1	37.6	-36.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	9.2	0.0	9.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	881	0	12.4	0.0	12.4
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	0.2	-0.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	3.9	-3.9
5	400 kV	RANCHI-SIPAT	2	164	39	0.6	0.0	0.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	133	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	84	13	0.9	0.0	0.9
					ER-WR	23.1	5.4	17.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	346	0.0	7.5	-7.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1734	0.0	39.7	-39.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2249	0.0	45.1	-45.1
4	400 kV	TALCHER-I/C	2	788	22	4.2	0.0	4.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	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	335	0	4.5	0.0	4.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	423	0	6.9	0.0	6.9
3	220 kV	ALIPURDUAR-SALAKATI	2	74	11	0.9	0.0	0.9
					ER-NER	12.3	0.0	12.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	463	0	11.0	0.0	11.0
					NER-NR	11.0	0.0	11.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	652	0.0	12.1	-12.1
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	1642	0.0	29.3	-29.3
5	765 kV	GWALIOR-PHAGI	2	161	1201	0.1	18.0	-17.9
6	765 kV	JABALPUR-ORAI	2	0	761	0.0	25.0	-25.0
7	765 kV	GWALIOR-ORAI	1	584	0	11.2	0.0	11.2
8	765 kV	SATNA-ORAI	1	0	957	0.0	20.2	-20.2
9	765 kV	BANASKANTHA-CHITORGARH	2	775	498	1.1	0.0	1.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	2383	0.0	48.7	-48.7
11	400 kV	ZERDA-KANKROLI	1	215	26	2.3	0.0	2.3
12	400 kV	ZERDA -BHINMAL	1	497	118	3.6	0.0	3.6
13	400 kV	VINDHYACHAL -RIHAND	1	922	0	12.4	0.0	12.4
14	400 kV	RAPP-SHUJALPUR	2	405	269	2.1	2.0	0.1
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	106	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	67	0	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	54.1	155.3	-101.2
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	14.5	-14.5
3	765 kV	SOLAPUR-RAICHUR	2	470	1593	0.2	15.5	-15.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2392	0.0	37.8	-37.8
5	400 kV	KOLHAPUR-KUDGI	2	1452	0	24.9	0.0	24.9
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	131	2.6	0.0	2.6
					WR-SR	27.7	79.8	-52.1

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)	312	0	240	5.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	230	0	187	4.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	57	0	13	0.3
	NER	132kV GELEPHU-SALAKATI	44	8	25	0.6
	NER	132kV MOTANGA-RANGIA	-27	2	-11	-0.3
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-79	0	-69	-1.7
	ER	NEPAL IMPORT (FROM BIHAR)	-54	-12	-39	-0.9
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-293	-53	-191	-4.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-946	-940	-944	-22.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-130	0	-123	-3.0