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: 28th 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 27.04.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-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 27th 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:** **28-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)	54066	61058	47100	23285	2627	188136
Peak Shortage (MW)	6483	1789	504	1521	0	10297
Energy Met (MU)	1248	1519	1168	556	44	4535
Hydro Gen (MU)	181	57	107	64	6	416
Wind Gen (MU)	20	78	18	-	-	116
Solar Gen (MU)*	103.77	53.49	111.32	5.58	0.48	275
Energy Shortage (MU)	154.67	15.91	7.32	20.21	0.40	198.51
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55345	66964	56438	24146	2745	200650
Time Of Maximum Demand Met (From NLDC SCADA)	12:03	15:41	11:56	22:56	18:47	11:45

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	0.309	7.74	16.77	33.75	58.26	40.55	1.19

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	7534	2050	168.4	69.2	0.3	410	28.20
	Haryana	7321	125	157.8	84.6	0.3	251	26.78
	Rajasthan	12708	2229	261.8	62.9	-0.2	475	55.94
	Delhi	5739	0	116.6	92.0	-2.4	128	0.00
	UP	18611	320	421.7	168.7	1.8	621	33.22
	Uttarakhand	2237	0	45.5	29.6	1.4	216	1.65
	HP	1646	0	31.5	12.8	0.4	511	2.21
	J&K(UT) & Ladakh(UT)	1939	100	39.0	25.8	0.7	204	6.67
	Chandigarh	288	0	5.6	5.2	0.4	65	0.00
WR	Chhattisgarh	4712	19	111.6	51.1	1.2	224	8.36
	Gujarat	20543	0	442.8	199.2	0.0	724	0.00
	MP	12156	458	276.9	139.0	1.0	643	7.50
	Maharashtra	28060	0	625.0	193.3	-0.3	677	0.00
	Goa	701	0	15.1	14.4	0.8	60	0.05
	DD	330	0	7.6	7.1	0.5	46	0.00
	DNH	872	0	20.4	19.6	0.8	85	0.00
	AMNSIL	873	0	19.5	10.1	-1.0	295	0.00
SR	Andhra Pradesh	11317	19	214.3	83.1	2.6	796	2.71
	Telangana	10673	0	212.9	93.5	0.5	477	0.00
	Karnataka	13226	0	260.3	53.5	-0.1	748	0.31
	Kerala	4385	300	92.2	60.1	0.0	287	1.40
	Tamil Nadu	17107	0	378.4	217.3	4.9	901	2.90
	Puducherry	460	0	9.7	10.1	-0.5	22	0.00
ER	Bihar	5475	0	121.3	110.3	0.1	406	11.31
	DVC	3639	0	78.5	-46.1	0.7	433	0.00
	Jharkhand	1424	0	30.5	20.2	1.0	220	6.16
	Odisha	5602	0	117.5	39.1	2.0	637	2.74
	West Bengal	9807	0	207.0	82.5	2.8	628	0.00
	Sikkim	100	0	1.2	1.2	0.1	35	0.00
NER	Arunachal Pradesh	132	0	2.3	2.2	0.1	27	0.00
	Assam	1629	0	25.4	21.3	-1.1	92	0.25
	Manipur	178	0	2.3	2.3	0.0	12	0.00
	Meghalaya	336	0	4.9	3.1	-0.2	27	0.15
	Mizoram	116	0	1.9	1.9	-0.1	17	0.00
	Nagaland	149	0	2.3	2.3	0.1	14	0.00
	Tripura	312	0	5.4	4.3	0.0	53	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.7	-8.2	-24.9
Day Peak (MW)	561.0	-742.0	-1081.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	141.9	-164.5	102.5	-79.5	-0.4	0.0
Actual(MU)	132.1	-166.0	102.1	-68.9	-4.1	-4.8
O/D/U/D(MU)	-9.8	-1.4	-0.5	10.6	-3.7	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4234	13053	5918	2520	935	26660	51
State Sector	9148	10724	3757	1660	47	25335	49
Total	13382	23776	9675	4180	982	51995	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	743	1457	695	595	17	3507	75
Lignite	11	15	53	0	0	79	2
Hydro	181	57	107	64	6	416	9
Nuclear	21	33	46	0	0	100	2
Gas, Naptha & Diesel	33	17	16	0	29	95	2
RES (Wind, Solar, Biomass & Others)	150	133	160	6	0	449	10
Total	1139	1711	1077	665	53	4645	100

Share of RES in total generation (%)	13.16	7.77	14.83	0.83	0.90	9.66
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.94	13.02	29.05	10.53	12.58	20.77

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.058

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: 28-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	131	390	0.0	4.1	-4.1
4	765 kV	SASARAM-FATEHPUR	1	0	444	0.0	7.9	-7.9
5	765 kV	GAYA-BALIA	1	0	346	0.0	6.6	-6.6
6	400 kV	PUSAULI-VARANASI	1	19	84	0.0	0.8	-0.8
7	400 kV	PUSAULI -ALLAHABAD	1	16	128	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	65	811	0.0	9.4	-9.4
9	400 kV	PATNA-BALIA	2	0	449	0.0	7.3	-7.3
10	400 kV	NAUBATPUR-BALIA	2	0	497	0.0	7.2	-7.2
11	400 kV	BIHARSHARIFF-BALIA	2	119	292	0.0	2.0	-2.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	0	0.0	0.0	0.0
13	400 kV	BIHARSHARIFF-VARANASI	2	36	229	0.0	3.1	-3.1
14	220 kV	SAHUPURI-KARAMNASA	1	1	119	0.0	2.0	-2.0
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	0.4	51.7	-51.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	7.9	0.0	7.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	789	50	9.3	0.0	9.3
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	1.4	-1.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	5.0	-5.0
5	400 kV	RANCHI-SIPAT	2	142	83	0.6	0.0	0.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	166	0.0	2.6	-2.6
7	220 kV	BUDHIPADAR-KORBA	2	124	24	1.2	0.0	1.2
					ER-WR	19.0	8.9	10.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	347	0.0	7.5	-7.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1650	0.0	34.3	-34.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2460	0.0	45.7	-45.7
4	400 kV	TALCHER-I/C	2	889	0	10.8	0.0	10.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	87.6	-87.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	443	0	5.6	0.0	5.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	589	0	8.1	0.0	8.1
3	220 kV	ALIPURDUAR-SALAKATI	2	113	1	1.3	0.0	1.3
					ER-NER	15.0	0.0	15.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	462	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	513	0.0	11.9	-11.9
2	HVDC	VINDHYACHAL B/B	-	272	0	7.3	0.0	7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	481	0	11.5	0.0	11.5
4	765 kV	GWALIOR-AGRA	2	0	1561	0.0	28.8	-28.8
5	765 kV	GWALIOR-PHAGI	2	0	1237	0.0	19.0	-19.0
6	765 kV	JABALPUR-ORAI	2	0	675	0.0	24.7	-24.7
7	765 kV	GWALIOR-ORAI	1	588	0	11.4	0.0	11.4
8	765 kV	SATNA-ORAI	1	0	960	0.0	20.9	-20.9
9	765 kV	BANASKANTHA-CHITORGARH	2	971	267	7.1	0.0	7.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	2481	0.0	46.6	-46.6
11	400 kV	ZERDA-KANKROLI	1	286	0	3.1	0.0	3.1
12	400 kV	ZERDA -BHINMAL	1	518	86	3.2	0.0	3.2
13	400 kV	VINDHYACHAL -RIHAND	1	489	0	11.2	0.0	11.2
14	400 kV	RAPP-SHUJALPUR	2	334	228	0.0	0.1	-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	112	0	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	70	0	1.9	0.0	1.9
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	57.7	151.9	-94.2
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	1501	0.0	18.8	-18.8
3	765 kV	SOLAPUR-RAICHUR	2	332	1487	0.0	14.4	-14.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2483	0.0	41.8	-41.8
5	400 kV	KOLHAPUR-KUDGI	2	1407	0	22.7	0.0	22.7
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	122	2.5	0.0	2.5
					WR-SR	25.2	86.9	-61.7

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)	299	0	217	5.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	244	0	162	3.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	89	0	-13	-0.3
	NER	132kV GELEPHU-SALAKATI	45	2	15	0.4
	NER	132kV MOTANGA-RANGIA	-40	-3	-19	-0.5
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.7
	ER	NEPAL IMPORT (FROM BIHAR)	-310	-38	-62	-1.5
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-352	-91	-206	-5.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-945	-795	-916	-22.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-136	0	-121	-2.9