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: 31st May 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 30.05.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-मई-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 30th May 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:** **31-May-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)	57180	57714	44582	23240	2856	185572
Peak Shortage (MW)	143	0	69	961	0	1173
Energy Met (MU)	1381	1413	1081	538	57	4469
Hydro Gen (MU)	242	51	82	58	20	452
Wind Gen (MU)	47	200	138	-	-	385
Solar Gen (MU)*	108.42	48.65	118.56	5.02	0.74	281
Energy Shortage (MU)	5.69	0.00	0.55	8.27	0.00	14.51
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63215	63920	50925	24418	3042	201791
Time Of Maximum Demand Met (From NLDC SCADA)	22:42	14:50	11:54	23:19	19:58	14:52

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	0.063	0.08	2.81	11.93	14.82	77.39	7.79

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	8892	0	186.5	95.2	-1.0	179	0.00
	Haryana	8488	100	173.2	111.7	-0.9	217	0.45
	Rajasthan	14592	0	298.5	74.8	0.3	437	2.40
	Delhi	6357	0	120.6	111.8	-3.3	135	0.00
	UP	22863	0	465.8	208.6	0.8	470	2.42
	Uttarakhand	2327	0	49.7	32.5	0.6	167	0.15
	HP	1573	0	32.6	9.0	-0.3	53	0.00
	J&K(UT) & Ladakh(UT)	2116	0	47.2	26.3	1.0	337	0.27
	Chandigarh	350	0	7.0	6.8	0.2	48	0.00
WR	Chhattisgarh	4259	0	99.2	53.9	-1.1	207	0.00
	Gujarat	19008	0	412.7	208.4	-10.6	982	0.00
	MP	11169	0	251.8	125.5	0.0	723	0.00
	Maharashtra	26709	0	587.4	171.5	-1.3	631	0.00
	Goa	664	0	14.6	14.2	-0.1	25	0.00
	DD	343	0	7.6	7.6	0.0	27	0.00
	DNH	885	0	20.4	20.3	0.1	64	0.00
	AMNSIL	881	0	18.8	11.1	0.3	284	0.00
SR	Andhra Pradesh	11218	0	222.3	103.9	2.9	841	0.55
	Telangana	9265	0	185.4	67.9	1.7	798	0.00
	Karnataka	11911	0	230.8	40.6	-1.7	968	0.00
	Kerala	3838	0	77.9	52.3	-0.3	221	0.00
	Tamil Nadu	16401	0	355.7	163.3	0.2	639	0.00
	Puducherry	438	0	9.2	9.3	-0.2	48	0.00
ER	Bihar	6072	850	116.8	105.9	-0.4	292	6.02
	DVC	3546	0	77.7	-43.1	-1.2	280	0.00
	Jharkhand	1519	336	32.4	22.6	0.6	188	2.25
	Odisha	5847	0	123.6	56.4	1.1	560	0.00
	West Bengal	9215	0	186.1	61.2	1.0	421	0.00
	Sikkim	104	0	1.6	1.6	0.0	31	0.00
NER	Arunachal Pradesh	136	0	2.3	2.2	0.0	32	0.00
	Assam	1983	0	37.0	29.9	0.4	122	0.00
	Manipur	179	0	2.6	2.6	0.0	19	0.00
	Meghalaya	306	0	5.5	1.9	0.0	37	0.00
	Mizoram	100	0	1.7	1.8	-0.1	7	0.00
	Nagaland	136	0	2.5	2.3	0.0	22	0.00
	Tripura	283	0	5.0	3.6	0.1	37	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	9.3	-4.0	-25.2
Day Peak (MW)	651.0	-303.6	-1071.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	224.7	-189.6	41.3	-81.3	5.0	0.0
Actual(MU)	212.1	-183.4	43.2	-77.8	0.8	-5.2
O/D/U/D(MU)	-12.7	6.3	1.9	3.6	-4.3	-5.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3243	12226	5148	2110	663	23390	44
State Sector	8735	12963	7530	1240	97	30564	56
Total	11978	25189	12678	3350	761	53954	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	718	1290	570	601	16	3195	69
Lignite	20	12	70	0	0	102	2
Hydro	242	51	82	58	20	452	10
Nuclear	24	33	44	0	0	100	2
Gas, Naptha & Diesel	17	3	8	0	25	53	1
RES (Wind, Solar, Biomass & Others)	173	249	308	5	1	736	16
Total	1194	1638	1082	664	61	4639	100

Share of RES in total generation (%)	14.50	15.20	28.49	0.76	1.21	15.87
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.74	20.30	40.10	9.43	33.80	27.77

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
Based on State Max Demands	1.060

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: 31-May-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	351	0.0	8.9	-8.9
2	HVDC	PUSAULI B/B	-	3	0	0.0	0.7	-0.7
3	765 kV	GAYA-VARANASI	2	474	163	1.9	0.0	1.9
4	765 kV	SASARAM-FATEHPUR	1	0	306	0.0	5.7	-5.7
5	765 kV	GAYA-BALIA	1	0	683	0.0	10.8	-10.8
6	400 kV	PUSAULI-VARANASI	1	90	34	0.2	0.0	0.2
7	400 kV	PUSAULI -ALLAHABAD	1	74	93	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	72	618	0.0	7.0	-7.0
9	400 kV	PATNA-BALIA	2	0	564	0.0	10.9	-10.9
10	400 kV	NAUBATPUR-BALIA	2	0	603	0.0	10.9	-10.9
11	400 kV	BIHARSHARIFF-BALIA	2	32	461	0.0	3.4	-3.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	424	0.0	6.9	-6.9
13	400 kV	BIHARSHARIFF-VARANASI	2	112	229	0.0	1.8	-1.8
14	220 kV	SAHUPURI-KARAMNASA	1	0	164	0.0	2.7	-2.7
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	2.5	70.5	-68.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	34.7	0.0	34.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1360	0	15.8	0.0	15.8
3	765 kV	JHARSUGUDA-DURG	2	0	314	6.0	0.0	6.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	2.2	-2.2
5	400 kV	RANCHI-SIPAT	2	361	0	3.7	0.0	3.7
6	220 kV	BUDHIPADAR-RAIGARH	1	152	74	0.0	0.3	-0.3
7	220 kV	BUDHIPADAR-KORBA	2	152	0	2.7	0.0	2.7
					ER-WR	62.9	2.4	60.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	458	0.0	9.2	-9.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1635	0.0	45.0	-45.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2546	0.0	48.9	-48.9
4	400 kV	TALCHER-I/C	2	275	0	0.2	0.0	0.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	103.0	-103.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	19	258	0.0	5.6	-5.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	55	304	0.0	5.0	-5.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	80	0.0	1.6	-1.6
					ER-NER	0.0	12.2	-12.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	504	0.0	12.1	-12.1
					NER-NR	0.0	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1009	0.0	23.8	-23.8
2	HVDC	VINDHYACHAL B/B	-	135	0	3.6	0.0	3.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	311	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	2003	0.0	31.0	-31.0
5	765 kV	GWALIOR-PHAGI	2	0	1609	0.0	20.5	-20.5
6	765 kV	JABALPUR-ORAI	2	0	950	0.0	28.1	-28.1
7	765 kV	GWALIOR-ORAI	1	831	0	11.8	0.0	11.8
8	765 kV	SATNA-ORAI	1	0	1027	0.0	20.6	-20.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1309	373	11.1	0.0	11.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	3419	0.0	64.2	-64.2
11	400 kV	ZERDA-KANKROLI	1	355	0	5.0	0.0	5.0
12	400 kV	ZERDA -BHINMAL	1	760	26	9.5	0.0	9.5
13	400 kV	VINDHYACHAL -RIHAND	1	968	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	217	428	0.8	5.0	-4.2
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	92	0	0.5	0.0	0.5
18	220 kV	MALANPUR-AURAIYA	1	57	0	1.3	0.0	1.3
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	65.4	200.3	-135.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	987	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	573	0	14.3	0.0	14.3
3	765 kV	SOLAPUR-RAICHUR	2	1253	1589	3.2	8.9	-5.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2933	0.0	45.5	-45.5
5	400 kV	KOLHAPUR-KUDGI	2	1507	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	123	2.4	0.0	2.4
					WR-SR	66.6	54.4	12.2

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)	234	0	166	4.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	274	0	195	4.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	123	0	63	1.5
	NER	132kV GELEPHU-SALAKATI	-10	2	-4	-0.1
	NER	132kV MOTANGA-RANGIA	-48	13	-34	-0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-62	-1.5
	ER	NEPAL IMPORT (FROM BIHAR)	-21	0	-5	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-205	0	-100	-2.4
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-941	-939	-940	-22.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-130	0	-109	-2.6