



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पावर 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: 1st June 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., डोंगतेह, 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 31.05.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-मई-2022 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 31st 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: 01-Jun-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)	61441	58654	43817	22861	3142	189915
Peak Shortage (MW)	735	0	0	836	0	1571
Energy Met (MU)	1440	1442	1081	553	59	4574
Hydro Gen (MU)	249	57	75	70	23	473
Wind Gen (MU)	38	165	163	-	-	366
Solar Gen (MU)*	109.34	50.71	103.05	4.98	0.42	269
Energy Shortage (MU)	12.08	0.00	1.11	8.87	0.00	22.06
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66206	64122	50926	24045	3210	204456
Time Of Maximum Demand Met (From NLDC SCADA)	22:14	14:51	15:01	00:01	19:20	14:51

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	0.023	0.00	0.00	4.15	4.15	85.65	10.20

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	9290	0	197.0	101.5	-0.6	106	0.00
	Haryana	8707	0	186.5	118.6	0.3	189	0.00
	Rajasthan	15075	0	305.0	82.5	3.7	435	5.90
	Delhi	6115	0	120.0	109.8	-1.9	182	0.00
	UP	24458	0	490.1	233.9	2.0	576	4.97
	Uttarakhand	2263	0	50.4	33.0	0.9	105	0.38
	HP	1601	0	33.6	9.8	0.2	112	0.00
	J&K(UT) & Ladakh(UT)	2259	0	50.6	28.9	0.4	252	0.83
	Chandigarh	349	0	6.7	6.7	-0.1	54	0.00
	Chhattisgarh	4380	0	101.6	53.7	-0.5	197	0.00
WR	Gujarat	20062	0	432.0	198.2	-2.2	707	0.00
	MP	11288	0	258.7	139.7	-0.1	618	0.00
	Maharashtra	26420	0	585.3	186.7	-0.4	830	0.00
	Goa	672	0	14.7	14.2	0.0	40	0.00
	DD	367	0	7.9	7.5	0.4	35	0.00
	DNH	870	0	20.3	20.3	0.0	61	0.00
	AMNSIL	916	0	21.0	10.7	0.2	256	0.00
SR	Andhra Pradesh	10952	0	222.9	100.3	6.1	1077	1.11
	Telangana	9257	0	183.0	60.8	2.2	635	0.00
	Karnataka	11715	0	225.2	44.2	-1.8	630	0.00
	Kerala	3812	0	78.7	52.5	-0.2	248	0.00
	Tamil Nadu	16604	0	362.4	155.3	-2.5	896	0.00
	Puducherry	426	0	9.3	9.6	-0.4	33	0.00
ER	Bihar	6059	460	126.1	114.9	-1.3	340	4.66
	DVC	3567	0	77.5	-44.3	-0.7	267	0.00
	Jharkhand	1488	0	32.6	23.5	0.4	155	4.21
	Odisha	5922	0	124.7	50.9	1.9	580	0.00
	West Bengal	9207	0	190.1	62.3	0.7	416	0.00
NER	Sikkim	98	0	1.5	1.6	-0.1	23	0.00
	Arunachal Pradesh	139	0	2.8	2.6	0.1	24	0.00
	Assam	2087	0	38.4	32.1	0.0	156	0.00
	Manipur	190	0	2.6	2.6	0.1	26	0.00
	Meghalaya	319	0	5.7	2.0	0.1	44	0.00
	Mizoram	98	0	1.9	1.8	0.0	22	0.00
	Nagaland	142	0	2.6	2.3	0.0	18	0.00
	Tripura	294	0	5.1	3.9	0.1	36	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	10.1	-3.2	-25.3
Day Peak (MW)	622.0	-232.2	-1082.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	261.9	-189.4	10.9	-87.2	3.8	0.0
Actual(MU)	259.5	-181.4	-0.8	-88.1	3.2	-7.6
O/D/U/D(MU)	-2.4	8.0	-11.7	-0.9	-0.6	-7.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3283	11816	4938	2610	672	23319	43
State Sector	9115	12433	8621	1260	97	31525	57
Total	12398	24249	13559	3870	769	54844	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	722	1328	598	611	15	3273	69
Lignite	22	15	72	0	0	109	2
Hydro	249	57	75	70	23	473	10
Nuclear	24	33	55	0	0	112	2
Gas, Naptha & Diesel	22	4	9	0	24	59	1
RES (Wind, Solar, Biomass & Others)	165	217	311	5	0	698	15
Total	1204	1653	1119	686	61	4723	100
Share of RES in total generation (%)	13.71	13.10	27.77	0.72	0.68	14.77	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.38	18.52	39.39	10.93	37.47	27.16	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.064

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: 01-Jun-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	350	0.0	8.5	-8.5
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.3	-1.3
3	765 kV	GAYALYARANASI	2	210	351	0.0	0.9	-0.9
4	765 kV	SASARAM-FATEHPUR	1	0	409	0.0	6.4	-6.4
5	765 kV	GAYA-BALIA	1	0	690	0.0	12.3	-12.3
6	400 kV	PUSAULI-VARANASI	1	39	19	0.0	0.4	-0.4
7	400 kV	PUSAULI-ALLAHABAD	1	0	98	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	15	706	0.0	7.9	-7.9
9	400 kV	PATNA-BALIA	2	0	564	0.0	11.6	-11.6
10	400 kV	NAUBATPUR-BALIA	2	0	593	0.0	11.9	-11.9
11	400 kV	BIHARSHARIFF-BALIA	2	58	482	0.0	4.2	-4.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	457	0.0	7.3	-7.3
13	400 kV	BIHARSHARIFF-VARANASI	2	51	290	0.0	2.7	-2.7
14	220 kV	SINUPUR-KARMANASA	1	0	195	0.0	2.7	-2.7
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	26	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	16	0.0	0.0	0.0
ER-NR						0.4	79.1	-78.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	26.9	0.0	26.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1202	0	17.6	0.0	17.6
3	765 kV	JHARSUGUDA-DURG	2	0	314	5.6	0.0	5.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	3.3	-3.3
5	400 kV	RANCHI-SIPAT	2	269	0	4.6	0.0	4.6
6	220 kV	BUDHIPADAR-RAIGARH	1	41	72	0.0	0.6	-0.6
7	220 kV	BUDHIPADAR-KORBA	2	165	0	2.2	0.0	2.2
ER-WR						56.8	3.9	52.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	503	0.0	9.5	-9.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1981	0.0	42.2	-42.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2336	0.0	41.5	-41.5
4	400 kV	TALCHER-I/C	2	511	152	3.0	0.0	3.0
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
ER-SR						0.0	93.1	-93.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	352	0.0	6.5	-6.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	400	0.0	6.2	-6.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	106	0.0	1.7	-1.7
ER-NER						0.0	14.4	-14.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	504	0.0	12.2	-12.2
NER-NR						0.0	12.2	-12.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2506	0.0	33.9	-33.9
2	HVDC	VINDHYACHAL B/B	-	135	0	3.6	0.0	3.6
3	HVDC	MUNDRA-MOHENDERGARH	2	0	311	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	2182	0.0	37.0	-37.0
5	765 kV	GWALIOR-PHAGI	2	34	1484	0.0	20.7	-20.7
6	765 kV	JABALPUR-ORAI	2	0	1014	0.0	31.8	-31.8
7	765 kV	GWALIOR-ORAI	1	628	0	11.4	0.0	11.4
8	765 kV	SATNA-ORAI	1	0	1062	0.0	21.9	-21.9
9	765 kV	BANASKANTHA-CHITORGARH	2	762	405	3.1	0.0	3.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	3504	0.0	67.7	-67.7
11	400 kV	ZERDA-KANKROLI	1	269	28	2.9	0.0	2.9
12	400 kV	ZERDA-JBHINMAL	1	548	74	6.1	0.0	6.1
13	400 kV	VINDHYACHAL -RIHAND	1	967	0	21.9	0.0	21.9
14	400 kV	RAPP-SHULIAPUR	2	241	482	1.3	4.3	-3.0
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	91	0	0.4	0.0	0.4
18	220 kV	MALANPUR-AURAIYA	1	52	8	1.2	0.0	1.2
19	132 kV	GWALIOR-SAWAIMADHOPUR	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						52.0	224.5	-172.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	987	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	571	0	13.9	0.0	13.9
3	765 kV	SOLAPUR-RAICHUR	2	1599	592	11.4	1.1	10.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2105	0.0	33.5	-33.5
5	400 kV	KOLHAPUR-KUDCI	2	1487	0	28.3	0.0	28.3
6	220 kV	KOLHAPUR-CHIKODI	1	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	2.3	0.0	2.3
WR-SR						79.8	34.6	45.2
INTERNATIONAL EXCHANGES								
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)		
BHUTAN	ER	400KV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	208	0	180	4.3		
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	284	205	208	5.0		
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	105	0	83	2.0		
	NER	132KV GELEPHU-SALAKATI	-12	-3	-8	-0.2		
	NER	132KV MOTANGA-RANGIA	-56	-39	-40	-1.0		
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-71	0	-60	-1.5		
	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	-142	0	-63	-1.5		
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-952	-937	-940	-22.6		
	NER	132KV COMILLA-SURAJMANNAGAR 1&2	130	0	-114	-2.7		