



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: 17th 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., 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 16.05.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-मई-2022 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 16th 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: 17-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)	61664	60456	41402	23098	2567	189187
Peak Shortage (MW)	120	0	0	194	0	314
Energy Met (MU)	1504	1461	958	534	44	4501
Hydro Gen (MU)	307	45	70	87	27	536
Wind Gen (MU)	67	149	103	-	-	319
Solar Gen (MU)*	98.83	50.28	94.63	5.06	0.17	249
Energy Shortage (MU)	1.64	0.00	0.00	2.94	0.04	4.62
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68296	65259	45042	23165	2673	201749
Time Of Maximum Demand Met (From NLDC SCADA)	13:57	15:37	12:29	20:02	18:46	14:53

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	0.026	0.00	0.31	1.20	1.52	78.09	20.39

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	10507	0	230.8	141.2	-1.5	116	0.00
	Haryana	9619	0	204.3	135.7	0.3	211	0.64
	Rajasthan	14695	0	298.6	63.1	-0.6	484	0.00
	Delhi	6686	0	130.8	118.6	-2.1	171	0.00
	UP	24305	0	509.0	233.3	0.0	732	1.00
	Uttarakhand	2354	0	45.1	24.8	-1.3	175	0.00
	HP	1589	0	31.6	2.2	0.4	179	0.00
	J&K(UT) & Ladakh(UT)	2484	0	46.7	25.4	-0.4	379	0.00
WR	Chhattisgarh	367	0	6.9	6.7	0.1	60	0.00
	Chhattisgarh	4515	0	100.3	50.9	-2.4	215	0.00
	Gujarat	20053	0	429.4	208.5	0.0	511	0.00
	MP	11899	0	271.6	134.6	0.0	561	0.00
	Maharashtra	26997	0	597.2	190.9	0.0	771	0.00
	Goa	689	0	14.9	14.3	0.1	42	0.00
	DD	329	0	7.2	7.3	-0.1	26	0.00
	DNH	838	0	19.4	19.7	-0.3	40	0.00
SR	AMNSIL	906	0	20.8	10.2	0.3	303	0.00
	Andhra Pradesh	8596	0	192.7	60.8	1.4	1280	0.00
	Telangana	8989	0	181.8	65.4	0.7	603	0.00
	Karnataka	10483	0	202.2	49.3	-0.1	745	0.00
	Kerala	3573	0	71.1	49.8	0.0	224	0.00
	Tamil Nadu	14506	0	301.9	166.1	1.3	657	0.00
	Puducherry	411	0	8.3	8.5	-0.2	22	0.00
	Bihar	6010	0	125.0	112.9	0.2	381	0.33
ER	DVC	3404	0	74.8	-41.6	0.4	419	0.00
	Jharkhand	1458	0	32.2	22.6	0.3	191	2.61
	Odisha	5961	0	127.4	52.4	-1.0	403	0.00
	West Bengal	8430	0	173.1	43.8	1.2	363	0.00
	Sikkim	78	0	1.2	1.4	-0.2	17	0.00
	Arunachal Pradesh	131	0	2.4	3.0	-0.7	38	0.00
	Assam	1560	0	24.5	18.0	-0.2	82	0.00
	Manipur	184	0	2.5	2.5	-0.1	28	0.00
NER	Meghalaya	315	0	5.2	4.0	-0.1	46	0.04
	Mizoram	118	0	1.8	2.0	-0.2	32	0.00
	Nagaland	124	0	2.4	1.9	0.0	40	0.00
	Trinura	299	0	5.5	4.6	-0.1	52	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	13.9	-1.1	-25.6
Day Peak (MW)	947.0	-10.4	-1082.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	246.9	-155.6	44.7	-119.1	-17.0	0.0
Actual(MU)	246.7	-139.4	18.5	-113.1	-20.1	-7.3
O/D/U/D(MU)	-0.3	16.2	-26.2	6.0	-3.1	-7.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4099	10581	6138	2110	425	23353	43
State Sector	8220	12259	8385	1890	173	30926	57
Total	12319	22839	14523	4000	598	54279	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	721	1329	548	594	13	3206	70
Lignite	25	14	57	0	0	95	2
Hydro	307	45	70	87	27	536	12
Nuclear	25	33	46	0	0	104	2
Gas, Naptha & Diesel	22	4	8	0	29	64	1
RES (Wind, Solar, Biomass & Others)	186	200	198	5	0	589	13
Total	1286	1624	927	685	70	4593	100
Share of RES in total generation (%)	14.46	12.31	23.34	0.73	0.24	13.28	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.23	17.07	35.57	13.39	39.25	27.12	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.013
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: 17-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	8.6	-8.6	
2	HVDC	PUSAULI-B/B	-	3	0	0.0	0.0	0.0	
3	765 kV	GAYALYARANASI	2	249	364	0.0	2.3	-2.3	
4	765 kV	SASARAM-FATEHPUR	1	0	349	0.0	5.8	-5.8	
5	765 kV	GAYA-BALIA	1	0	795	0.0	14.5	-14.5	
6	400 kV	PUSAULI-VARANASI	1	0	88	0.0	0.9	-0.9	
7	400 kV	PUSAULI-ALLAHABAD	1	0	176	0.0	1.9	-1.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	953	0.0	15.3	-15.3	
9	400 kV	PATNA-BALIA	2	0	650	0.0	13.7	-13.7	
10	400 kV	NAUBATPUR-BALIA	2	0	703	0.0	14.6	-14.6	
11	400 kV	BIHARSHARIF-BALIA	2	0	751	0.0	10.1	-10.1	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	547	0.0	9.4	-9.4	
13	400 kV	BIHARSHARIF-VARANASI	2	26	280	0.0	3.2	-3.2	
14	220 kV	SADHUPUR-KARMANASA	1	0	187	0.0	3.2	-3.2	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.0	0.4	-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	103.6	-103.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	21.0	0.0	21.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	732	90	10.2	0.0	10.2	
3	765 kV	JHARSUGUDA-DURG	2	0	314	1.8	0.0	1.8	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	6.6	-6.6	
5	400 kV	RANCHI-SIPAT	2	129	82	1.2	0.0	1.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	125	0.0	1.5	-1.5	
7	220 kV	BUDHIPADAR-KORBA	2	121	12	1.3	0.0	1.3	
						ER-WR	35.5	8.2	27.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	339	0.0	7.4	-7.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1494	0.0	31.6	-31.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2818	0.0	50.9	-50.9	
4	400 kV	TALCHER-I/C	2	963	0	13.5	0.0	13.5	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	89.9	-89.9
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	339	0	2.9	0.0	2.9	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	456	23	4.7	0.0	4.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	80	16	0.7	0.0	0.7	
						ER-NER	8.4	0.0	8.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	12.0	-12.0	
						NER-NR	0.0	12.0	-12.0
Import/Export of WR (With NR)									
1	HVDC	CHAMPACKURUKSHETRA	2	0	1799	0.0	36.9	-36.9	
2	HVDC	VINDHYACHAL-B/B	-	448	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHENDERGARH	2	0	310	0.0	7.4	-7.4	
4	765 kV	GWALIOR-AGRA	2	0	2211	0.0	31.4	-31.4	
5	765 kV	GWALIOR-PHAGI	2	157	1222	0.1	16.3	-16.2	
6	765 kV	JABALPUR-ORAI	2	0	1014	0.0	30.0	-30.0	
7	765 kV	GWALIOR-ORAI	1	597	0	10.9	0.0	10.9	
8	765 kV	SATNA-ORAI	1	0	1046	0.0	21.5	-21.5	
9	765 kV	BANASKANTHA-CHITORGARH	2	919	299	9.0	0.0	9.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3401	0.0	62.6	-62.6	
11	400 kV	ZERDA-KANKROLI	1	342	0	5.4	0.0	5.4	
12	400 kV	ZERDA-BHINMAL	1	766	0	12.1	0.0	12.1	
13	400 kV	VINDHYACHAL-RIHAND	1	963	0	21.6	0.0	21.6	
14	400 kV	RAPP-SHUALPUR	2	365	370	1.6	2.2	-0.6	
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	101	0	0.6	0.0	0.6	
18	220 kV	MALANPUR-AURAIYA	1	60	0	1.5	0.0	1.5	
19	132 kV	GWALIOR-SAWALMADHOPUR	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	75.1	208.3	-133.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	348	11	4.6	0.0	4.6	
2	HVDC	RAIGARH-PUGALUR	2	1933	0	44.6	0.0	44.6	
3	765 kV	SOLAPUR-RAICHUR	2	782	1875	2.7	15.8	-13.1	
4	765 kV	WARDHA-NIZAMABAD	2	0	2770	0.0	40.3	-40.3	
5	400 kV	WARDHA-KUDCI	2	1425	0	23.0	0.0	23.0	
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	NEIDEM-AMBEWADI	1	0	125	2.6	0.0	2.6	
						WR-SR	77.4	56.2	21.2
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)	515	309	373	9.0			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	291	0	135	3.3			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	109	39	44	1.1			
	NER	132KV GELEPHU-SALAKATI	12	0	6	0.2			
NEPAL	NER	132KV MOTANGA-RANGIA	41	12	28	0.7			
	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-46	-1.1			
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	101	0	17	0.4			
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-943	-934	-942	-22.6			
BANGLADESH	NER	132KV COMILLA-SURAJMANI NAGAR 1&2	-139	0	-123	-3.0			