



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: 19th 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 18.05.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th 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: 19-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)	61030	59900	41978	23413	2399	188720
Peak Shortage (MW)	1949	0	0	1007	0	2956
Energy Met (MU)	1480	1467	957	530	44	4479
Hydro Gen (MU)	263	56	76	87	33	515
Wind Gen (MU)	10	97	57	-	-	164
Solar Gen (MU)*	105.65	47.53	73.96	5.41	0.54	233
Energy Shortage (MU)	26.12	0.22	0.00	9.02	0.00	35.36
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65863	65616	43571	24306	2575	198050
Time Of Maximum Demand Met (From NLDC SCADA)	12:45	15:14	12:30	23:36	18:32	15:01

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	0.146	2.67	10.20	17.75	30.62	64.04	5.34

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	9456	0	216.2	112.7	-1.2	138	0.00
	Haryana	9563	0	202.7	132.8	0.1	186	2.26
	Rajasthan	15238	121	295.0	87.8	2.9	499	15.21
	Delhi	6657	0	136.0	121.8	0.1	459	0.00
	UP	23388	0	495.8	216.7	-1.0	655	7.00
	Uttarakhand	1984	75	42.2	22.2	0.1	264	1.05
	HP	1586	0	32.6	7.8	1.7	200	0.00
	J&K(UT) & Ladakh(UT)	2952	0	52.4	30.2	0.9	559	0.60
	Chandigarh	340	0	6.5	6.4	0.1	29	0.00
	Chhattisgarh	4451	0	102.2	52.6	-1.2	322	0.22
WR	Gujarat	19545	0	425.6	217.7	0.0	772	0.00
	MP	12287	0	278.5	146.3	0.0	459	0.00
	Maharashtra	26695	0	600.0	198.2	-0.8	879	0.00
	Goa	666	0	14.5	13.9	0.0	40	0.00
	DD	333	0	7.4	7.2	0.2	31	0.00
	DNH	853	0	20.0	20.0	0.0	40	0.00
	AMNSIL	886	0	19.2	9.4	-0.3	236	0.00
	Andhra Pradesh	9040	0	196.4	69.1	1.7	752	0.00
	Telangana	8838	0	183.8	69.7	0.6	513	0.00
	Karnataka	8651	0	175.8	44.0	-1.3	748	0.00
SR	Kerala	3517	0	70.2	49.5	-0.7	283	0.00
	Tamil Nadu	14745	0	321.9	175.0	-2.2	707	0.00
	Puducherry	424	0	9.0	9.3	-0.4	34	0.00
	Bihar	6057	728	125.3	115.4	-1.0	481	4.86
	DVC	3488	0	76.7	-37.2	3.7	834	0.00
	Jharkhand	1546	66	31.2	21.9	0.2	197	4.17
	Odisha	5968	0	123.3	45.3	-2.2	443	0.00
	West Bengal	8984	0	172.3	54.6	2.7	449	0.00
	Sikkim	99	0	1.3	1.7	-0.4	25	0.00
	ER	Arunachal Pradesh	131	0	2.3	2.5	-0.3	67
Assam		1501	0	24.9	18.5	-0.3	147	0.00
Manipur		172	0	2.4	2.4	0.0	43	0.00
Meghalaya		325	0	5.6	0.7	-0.1	70	0.00
Mizoram		102	0	1.6	1.9	-0.2	2	0.00
Nagaland		131	0	2.4	2.0	0.0	26	0.00
Tripura		295	0	5.1	4.5	-0.3	25	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	11.0	-3.1	-25.1
Day Peak (MW)	561.0	-267.5	-1068.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	269.4	-158.7	20.4	-107.9	-23.2	0.0
Actual(MU)	267.4	-161.8	11.1	-96.8	-28.3	-8.5
O/D/U/D(MU)	-2.0	-3.1	-9.3	11.1	-5.1	-8.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4665	9341	6068	2610	788	23473	44
State Sector	8045	13129	5685	2900	47	29805	56
Total	12710	22470	11753	5510	836	53278	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	760	1397	619	585	16	3378	73
Lignite	25	12	60	0	0	97	2
Hydro	263	56	76	87	33	515	11
Nuclear	25	33	46	0	0	103	2
Gas, Naptha & Diesel	24	15	8	0	28	76	2
RES (Wind, Solar, Biomass & Others)	135	145	131	5	1	417	10
Total	1233	1658	940	678	78	4587	100

Share of RES in total generation (%)	10.95	8.74	13.92	0.80	0.69	9.09
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.33	14.06	26.94	13.62	42.75	22.57

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.065

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: 19-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	551	0.0	13.3	-13.3	
2	HVDC	PUSAULI B/B	-	3	0	0.0	0.0	0.0	
3	765 kV	GAYA-VARANASI	2	409	248	1.7	0.0	1.7	
4	765 kV	SASARAM-FATEHPUR	1	0	282	0.0	4.9	-4.9	
5	765 kV	GAYA-BALIA	1	0	688	0.0	11.9	-11.9	
6	400 kV	PUSAULI-VARANASI	1	58	30	0.2	0.0	0.2	
7	400 kV	PUSAULI-ALLAHABAD	1	50	117	0.0	0.7	-0.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1031	0.0	13.4	-13.4	
9	400 kV	PATNA-BALIA	2	0	603	0.0	12.6	-12.6	
10	400 kV	NAUBATPUR-BALIA	2	0	649	0.0	12.8	-12.8	
11	400 kV	BIHARSHARIF-BALIA	2	0	772	0.0	10.2	-10.2	
12	400 kV	MOTHARI-GORAKHPUR	2	0	545	0.0	8.3	-8.3	
13	400 kV	BIHARSHARIF-VARANASI	2	92	249	0.0	1.7	-1.7	
14	220 kV	SAHUPURI-KARAMNANA	1	0	167	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	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	2.3	92.3	-90.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	10.6	0.0	10.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1025	81	13.6	0.0	13.6	
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.6	0.0	0.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	5.7	-5.7	
5	400 kV	RANCHI-SIPAT	2	219	54	2.0	0.0	2.0	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	110	0.0	1.6	-1.6	
7	220 kV	BUDHIPADAR-KORBA	2	125	0	0.9	0.0	0.9	
						ER-WR	27.7	7.2	20.5
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	414	0.0	7.9	-7.9	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1639	0.0	39.7	-39.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2055	0.0	39.0	-39.0	
4	400 kV	TALCHER-I/C	2	264	0	5.4	0.0	5.4	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	86.6	0.0	-86.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	409	51	4.0	0.0	4.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	715	0	9.5	0.0	9.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	124	29	1.4	0.0	1.4	
						ER-NER	14.9	0.0	14.9
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	603	0.0	14.6	-14.6	
						NER-NR	0.0	14.6	-14.6
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2502	0.0	58.0	-58.0	
2	HVDC	VINDHYACHAL B/B	-	447	0	7.3	0.0	7.3	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	311	0.0	7.4	-7.4	
4	765 kV	GWALIOR-AGRA	2	0	1795	0.0	28.5	-28.5	
5	765 kV	GWALIOR-PHAGI	2	0	1549	0.0	20.4	-20.4	
6	765 kV	JABALPUR-ORAI	2	0	989	0.0	31.9	-31.9	
7	765 kV	GWALIOR-ORAI	1	768	0	12.9	0.0	12.9	
8	765 kV	SATNA-ORAI	1	0	1112	0.0	21.7	-21.7	
9	765 kV	BANASKANTHA-CHITORGARH	2	1231	179	12.0	0.0	12.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3271	0.0	67.2	-67.2	
11	400 kV	ZERDA-KANKROLI	1	342	0	4.4	0.0	4.4	
12	400 kV	ZERDA-BHINMAL	1	534	0	6.3	0.0	6.3	
13	400 kV	VINDHYACHAL-RIHAND	1	975	0	22.2	0.0	22.2	
14	400 kV	RAPP-SHUJALPUR	2	315	425	1.5	3.6	-2.1	
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	101	0	0.8	0.0	0.8	
18	220 kV	MALANPUR-AURAIYA	1	64	0	1.7	0.0	1.7	
19	132 kV	GWALIOR-SAWAL 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	69.1	238.6	-169.5
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	297	0	7.2	0.0	7.2	
2	HVDC	RAIGARH-PUGALUR	2	1453	0	34.8	0.0	34.8	
3	765 kV	SOLAPUR-RAICHUR	2	613	1218	1.3	8.8	-7.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	2124	0.0	34.6	-34.6	
5	400 kV	KOLHAPUR-KUDGI	2	1402	0	26.2	0.0	26.2	
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	1	119	2.3	0.0	2.3	
						WR-SR	71.7	43.5	28.3

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 MANGDECHHU HEP 4*180MW)	294	0	287	6.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*70MW)	213	0	133	3.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	74	30	40	1.0
	NER	132kV GELEPHU-SALAKATI	-8	0	-3	-0.1
	NER	132kV MOTANGA-RANGIA	50	0	33	0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-58	-1.4
	ER	NEPAL IMPORT (FROM BIHAR)	-46	0	-20	-0.5
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-144	-25	-50	-1.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-932	-915	-924	-22.2
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-136	0	-123	-3.0