



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: 01st June 2020

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह , लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 31.05.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-मई-2020 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 31st May 2020, 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-2020

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	38313	39834	33526	18278	2433	132384
Peak Shortage (MW)	520	0	0	0	101	621
Energy Met (MU)	859	1080	858	354	43	3193
Hydro Gen (MU)	287	37	70	96	19	508
Wind Gen (MU)	19	65	47	-	-	131
Solar Gen (MU)*	39.75	26.40	69.65	4.85	0.04	141
Energy Shortage (MU)	10.0	0.0	0.0	0.0	0.6	10.5
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	40569	47495	39357	18045	2443	140047
Time Of Maximum Demand Met (From NLDC SCADA)	21:34	15:34	12:27	23:25	19:02	13:46

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	0.030	0.00	0.02	3.16	3.18	75.32	21.50

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	5804	0	127.5	97.6	0.2	271	0.0
	Haryana	4910	0	96.1	85.6	-2.0	236	0.0
	Rajasthan	8977	0	186.9	54.9	-3.1	386	0.0
	Delhi	4096	0	73.3	64.7	-3.2	68	0.0
	UP	16035	0	282.0	141.9	0.1	702	0.0
	Uttarakhand	1363	0	28.2	12.3	-0.9	91	0.0
	HP	1052	0	19.6	-1.3	-2.1	108	0.0
	J&K(UT) & Ladakh(UT)	2165	541	41.8	18.6	0.1	181	10.0
	Chandigarh	156	0	3.4	4.0	-0.6	3	0.0
	Chhattisgarh	3423	0	73.9	29.1	-1.1	399	0.0
WR	Gujarat	15123	0	319.2	98.9	5.5	838	0.0
	MP	9227	0	204.8	107.0	-2.4	450	0.0
	Maharashtra	20145	0	443.4	161.2	-6.8	1511	0.0
	Goa	447	0	9.1	8.5	0.1	54	0.0
	DD	198	0	4.4	4.2	0.2	20	0.0
	DNH	399	0	9.1	9.1	0.0	46	0.0
	AMNSIL	804	0	16.0	1.1	0.5	251	0.0
SR	Andhra Pradesh	9317	0	184.1	115.4	0.6	776	0.0
	Telangana	7374	0	145.9	55.5	0.6	708	0.0
	Karnataka	8727	0	168.5	60.9	0.7	699	0.0
	Kerala	3144	0	63.5	42.8	-0.4	194	0.0
	Tamil Nadu	12721	0	288.5	134.8	-3.0	380	0.0
	Puducherry	349	0	7.2	7.4	-0.3	37	0.0
ER	Bihar	4833	0	78.0	73.8	-1.1	245	0.0
	DVC	2337	0	48.3	-27.1	-1.5	215	0.0
	Jharkhand	1126	0	21.2	13.9	-0.9	197	0.0
	Odisha	4109	0	84.9	7.2	1.4	435	0.0
	West Bengal	6246	0	120.4	34.7	3.8	395	0.0
NER	Sikkim	72	0	0.9	1.1	-0.2	22	0.0
	Arunachal Pradesh	106	1	2.0	1.7	0.3	89	0.0
	Assam	1492	89	25.1	19.7	1.9	139	0.6
	Manipur	181	1	2.2	2.3	-0.1	21	0.0
	Meghalaya	324	0	5.5	1.1	-0.3	48	0.0
	Mizoram	84	1	1.7	1.4	0.2	10	0.0
	Nagaland	114	1	2.2	2.0	0.0	32	0.0
	Tripura	249	0	4.1	4.0	0.1	27	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	30.0	-0.3	-23.2
Day Peak (MW)	1545.3	-148.7	-1112.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	133.5	-148.2	121.6	-100.5	-6.5	0.0
Actual(MU)	116.9	-146.0	126.4	-88.5	-8.5	0.4
O/D/U/D(MU)	-16.7	2.2	4.9	12.0	-2.0	0.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5095	20594	8762	1645	365	36460
State Sector	17650	17700	11128	5146	11	51635
Total	22745	38294	19890	6791	376	88095

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	321	953	419	375	11	2079
Lignite	18	16	37	0	0	71
Hydro	287	37	70	96	19	508
Nuclear	28	36	46	0	0	110
Gas, Naptha & Diesel	27	81	17	0	27	152
RES (Wind, Solar, Biomass & Others)	85	108	156	5	0	353
Total	765	1232	745	476	57	3274
Share of RES in total generation (%)	11.07	8.75	20.94	1.04	0.07	10.79
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	52.13	14.73	36.52	21.18	33.25	29.69

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.056
Based on State Max Demands	1.123

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-2020

Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	-	0	700	0.0	9.1	-9.1	
2	HVDC	PUSAULI B/B	S/C	0	249	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	D/C	203	362	0.0	3.1	-3.1	
4	765 kV	SASARAM-FATEHPUR	S/C	273	172	0.3	0.0	0.3	
5	765 kV	GAYA-BALIA	S/C	0	277	0.0	3.1	-3.1	
6	400 kV	PUSAULI-VARANASI	S/C	0	235	0.0	4.2	-4.2	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	133	0.0	1.8	-1.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	78	616	0.0	8.2	-8.2	
9	400 kV	PATNA-BALIA	Q/C	0	670	0.0	11.1	-11.1	
10	400 kV	BIHARSHARIFF-BALIA	D/C	28	252	0.0	3.1	-3.1	
11	400 kV	MOTHARI-GORAKHPUR	D/C	0	262	0.0	4.0	-4.0	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	256	199	0.0	0.0	0.0	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	172	0.0	2.4	-2.4	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.2	0.0	0.2	
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	0.5	55.9	-55.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1373	0	26.6	0.0	26.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	806	623	2.0	0.0	2.0	
3	765 kV	JHARSUGUDA-DURG	D/C	90	236	0.0	1.5	-1.5	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	117	255	0.0	1.5	-1.5	
5	400 kV	RANCHI-SIPAT	D/C	291	183	1.2	0.0	1.2	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	114	0.0	1.3	-1.3	
7	220 kV	BUDHIPADAR-KORBA	D/C	245	0	2.2	0.0	2.2	
						ER-WR	32.0	4.3	27.6
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	435	0.0	9.2	-9.2	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2000	0.0	40.6	-40.6	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2768	0.0	51.3	-51.3	
4	400 kV	TALCHER-I/C	D/C	1065	1004	0.0	4.0	-4.0	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	101.0	-101.0
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	D/C	109	214	0.0	0.1	-0.1	
2	400 kV	ALIPURDUAR-BONGAIGAOON	D/C	155	339	0.0	0.2	-0.2	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	22	77	0.0	0.4	-0.4	
						ER-NER	0.0	0.6	-0.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	504	0.0	10.7	-10.7	
						NER-NR	0.0	10.7	-10.7
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1036	0.0	20.4	-20.4	
2	HVDC	V'CHAL B/B	D/C	248	0	1.7	0.0	1.7	
3	HVDC	APL -MHG	D/C	0	981	0.0	24.3	-24.3	
4	765 kV	GWALIOR-AGRA	D/C	83	1348	0.0	15.7	-15.7	
5	765 kV	PHAGI-GWALIOR	D/C	22	491	0.0	5.4	-5.4	
6	765 kV	JABALPUR-ORAI	D/C	23	525	0.0	12.4	-12.4	
7	765 kV	GWALIOR-ORAI	S/C	386	0	5.8	0.0	5.8	
8	765 kV	SAINA-ORAI	S/C	0	834	0.0	15.9	-15.9	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	826	283	5.6	0.0	5.6	
10	400 kV	ZERDA-KANKROLI	S/C	298	0	3.8	0.0	3.8	
11	400 kV	ZERDA-BHINMAL	S/C	465	53	4.9	0.0	4.9	
12	400 kV	V'CHAL -RIHAND	S/C	949	0	17.3	0.0	17.3	
13	400 kV	RAPP-SHUALPUR	D/C	328	99	4.0	0.0	4.0	
14	220 kV	BHANPURA-RANPUR	S/C	56	40	0.5	2.7	-2.2	
15	220 kV	BHANPURA-MORAK	S/C	41	53	0.0	0.0	0.0	
16	220 kV	MEHGAON-AURAIYA	S/C	125	0	0.0	0.0	0.0	
17	220 kV	MALANPUR-AURAIYA	S/C	0	0	0.0	0.0	0.0	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
19	132 kV	RAIGHAT-LALITPUR	D/C	0	0	0.0	0.0	0.0	
						WR-NR	43.5	96.7	-53.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	613	0.0	11.7	-11.7	
2	HVDC	BARSUR-I-SILERI	-	0	0	0.0	0.0	0.0	
3	HVDC	HVDC-RAIGARH-PUGALUR	D/C	0	0	0.0	0.0	0.0	
4	765 kV	SOLAPUR-RAICHUR	D/C	581	2134	0.0	19.0	-19.0	
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2348	0.0	40.2	-40.2	
6	400 kV	KOLHAPUR-KUDGI	D/C	495	0	6.0	0.0	6.0	
7	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
8	220 kV	PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0	
9	220 kV	XELDEM-AMBEWADI	S/C	0	99	1.8	0.0	1.8	
						WR-SR	7.8	70.9	-63.2

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	DAGACHU (2 * 63)	0	0	0	0.0
	ER	CHUKA (4 * 84) BIRPARA RECEIPT	188	162	156	3.8
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	582	433	415	10.0
	ER	TALA (6 * 170) BINAGURI RECEIPT	619	532	549	13.2
	NER	132KV-SALAKATI - GELEPHU	0	0	23	0.5
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.1
	ER	132KV-BIHAR - NEPAL	-37	-2	-3	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-94	-2	-8	-0.2
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-952	-554	-839	-20.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	80	0	-63	-1.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	80	0	-63	-1.5