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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 29th May 2020

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 28.05.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-मई-2020 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 28th 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: 29-May-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)	42830	42469	36896	16181	2307	140683
Peak Shortage (MW)	470	0	0	0	3	473
Energy Met (MU)	1101	1121	957	323	39	3541
Hydro Gen (MU)	289	21	72	99	23	503
Wind Gen (MU)	56	174	94	-	-	324
Solar Gen (MU)*	40.64	28.34	82.24	4.86	0.05	156
Energy Shortage (MU)	10.3	0.0	0.0	0.0	0.1	10.4
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50822	49676	45643	16092	2395	160311
Time Of Maximum Demand Met (From NLDC SCADA)	00:01	15:36	14:58	20:01	19:17	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	0.050	0.25	0.25	0.59	1.10	64.98	33.92

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	7548	0	150.3	120.4	-8.6	92	0.0
	Haryana	7015	0	139.3	115.1	-3.6	353	0.0
	Rajasthan	11745	0	249.4	66.1	0.1	530	0.0
	Delhi	5403	0	105.6	89.0	-1.8	362	0.0
	UP	17432	0	350.0	161.8	2.8	1099	0.0
	Uttarakhand	1624	0	34.1	15.3	1.5	327	0.0
	HP	1274	0	24.2	0.6	0.5	187	0.0
	J&K(UT) & Ladakh(UT)	2024	506	43.3	20.3	0.0	233	10.3
	Chandigarh	270	0	5.0	5.5	-0.5	10	0.0
WR	Chhattisgarh	3675	0	90.0	36.0	2.4	247	0.0
	Gujarat	15264	0	321.5	62.0	4.1	573	0.0
	MP	9660	0	210.9	96.0	-0.7	421	0.0
	Maharashtra	21288	0	457.3	152.7	-0.2	598	0.0
	Goa	477	0	10.7	10.4	-0.2	34	0.0
	DD	207	0	4.6	4.4	0.2	26	0.0
	DNH	412	0	9.4	9.3	0.1	48	0.0
	AMNSIL	742	0	16.8	3.8	0.1	230	0.0
SR	Andhra Pradesh	10062	0	195.4	92.0	0.4	531	0.0
	Telangana	8752	0	180.5	70.9	1.2	712	0.0
	Karnataka	9672	0	192.1	60.2	1.5	772	0.0
	Kerala	3419	0	74.3	51.4	0.7	237	0.0
	Tamil Nadu	13876	0	307.0	147.6	-0.8	790	0.0
	Puducherry	369	0	7.8	8.3	-0.5	34	0.0
ER	Bihar	4812	0	79.0	79.1	-4.9	262	0.0
	DVC	2505	0	51.7	-29.2	0.2	326	0.0
	Jharkhand	1146	0	22.2	16.6	-2.7	106	0.0
	Odisha	4035	0	79.3	7.8	0.0	296	0.0
	West Bengal	4921	0	89.8	30.0	0.1	416	0.0
	Sikkim	99	0	1.3	1.5	-0.2	15	0.0
NER	Arunachal Pradesh	90	1	1.6	1.5	0.1	35	0.0
	Assam	1460	22	23.4	18.9	0.5	187	0.0
	Manipur	164	2	2.2	2.2	0.0	34	0.0
	Meghalaya	323	1	4.8	0.3	-0.1	48	0.0
	Mizoram	87	0	1.3	1.2	0.0	13	0.0
	Nagaland	119	0	2.1	1.7	0.0	11	0.0
	Tripura	241	2	3.2	3.2	-0.6	27	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	35.2	-0.3	-13.5
Day Peak (MW)	1910.5	-120.5	-959.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	246.7	-257.2	125.6	-110.4	-4.9	-0.2
Actual(MU)	214.7	-227.6	141.9	-111.4	-8.5	9.0
O/D/U/D(MU)	-32.1	29.6	16.3	-1.0	-3.6	9.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5095	20654	7512	2495	810	36566
State Sector	14940	18811	10528	5856	11	50146
Total	20035	39465	18040	8351	821	86712

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	411	999	424	358	2	2194
Lignite	19	16	39	0	0	73
Hydro	289	21	72	99	23	503
Nuclear	27	36	55	0	0	118
Gas, Naptha & Diesel	34	61	16	0	27	138
RES (Wind, Solar, Biomass & Others)	122	228	222	5	0	576
Total	901	1360	827	463	52	3603
Share of RES in total generation (%)	13.52	16.75	26.82	1.07	0.10	16.00
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	48.50	20.93	42.15	22.56	43.83	33.24

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.074

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: 29-May-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	701	0.0	7.3	-7.3
2	HVDC	PUSAULI B/B	S/C	0	249	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	D/C	0	671	0.0	8.1	-8.1
4	765 kV	SASARAM-FATEHPUR	S/C	150	219	0.0	1.4	-1.4
5	765 kV	GAYA-BALIA	S/C	0	487	0.0	6.5	-6.5
6	400 kV	PUSAULI-VARANASI	S/C	0	212	0.0	3.6	-3.6
7	400 kV	PUSAULI -ALLAHABAD	S/C	0	142	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	738	0.0	12.4	-12.4
9	400 kV	PATNA-BALIA	Q/C	0	921	0.0	15.4	-15.4
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	356	0.0	5.3	-5.3
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	269	0.0	4.5	-4.5
12	400 kV	BIHARSHARIFF-VARANASI	D/C	122	283	0.0	2.7	-2.7
13	220 kV	PUSAULI-SAHUPURI	S/C	0	166	0.0	2.6	-2.6
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	0.4	0.0	0.4
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	0.4	77.7	-77.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1665	0	32.2	0.0	32.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	687	84	7.1	0.0	7.1
3	765 kV	JHARSUGUDA-DURG	D/C	188	46	2.0	0.0	2.0
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	111	147	0.0	0.6	-0.6
5	400 kV	RANCHI-SIPAT	D/C	265	0	3.2	0.0	3.2
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	91	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	D/C	126	0	2.1	0.0	2.1
					ER-WR	46.6	1.5	45.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	435	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1983	0.0	48.0	-48.0
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2765	0.0	52.1	-52.1
4	400 kV	TALCHER-I/C	D/C	0	996	0.0	13.9	-13.9
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
					ER-SR	0.0	110.1	-110.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	D/C	39	296	0.0	1.9	-1.9
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	127	564	0.0	4.5	-4.5
3	220 kV	ALIPURDUAR-SALAKATI	D/C	6	107	0.0	1.0	-1.0
					ER-NER	0.0	7.4	-7.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	854	0.0	17.9	-17.9
					NER-NR	0.0	17.9	-17.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	802	0.0	27.0	-27.0
2	HVDC	V'CHAL B/B	D/C	230	254	4.4	1.6	2.8
3	HVDC	APL -MHG	D/C	0	1916	0.0	32.2	-32.2
4	765 kV	GWALIOR-AGRA	D/C	0	2256	0.0	16.7	-16.7
5	765 kV	PHAGI-GWALIOR	D/C	53	1076	0.0	14.7	-14.7
6	765 kV	JABALPUR-ORAI	D/C	0	990	0.0	29.0	-29.0
7	765 kV	GWALIOR-ORAI	S/C	383	146	5.6	0.0	5.6
8	765 kV	SATNA-ORAI	S/C	0	1350	0.0	18.0	-18.0
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	1248	0.0	10.6	-10.6
10	400 kV	ZERDA-KANKROLI	S/C	87	97	0.3	0.0	0.3
11	400 kV	ZERDA -BHINMAL	S/C	273	0	3.7	0.0	3.7
12	400 kV	V'CHAL -RIHAND	S/C	962	31	16.2	0.0	16.2
13	400 kV	RAPP-SHUJALPUR	D/C	181	226	0.8	0.6	0.2
14	220 kV	BHANPURA-RANPUR	S/C	55	33	1.6	1.4	0.2
15	220 kV	BHANPURA-MORAK	S/C	0	110	0.0	0.6	-0.6
16	220 kV	MEHGAON-AURAIYA	S/C	101	0	0.0	0.0	0.0
17	220 kV	MALANPUR-AURAIYA	S/C	69	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	RAJGHAT-LALITPUR	D/C	0	0	0.0	0.0	0.0
					WR-NR	32.5	152.4	-119.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	809	0.0	12.9	-12.9
2	HVDC	BARSUR-L,SILERU	-	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	528	1777	1.0	19.0	-18.0
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2610	0.0	42.1	-42.1
6	400 kV	KOLHAPUR-KUDGI	D/C	763	36	6.8	0.0	6.8
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	98	2.0	0.0	2.0
					WR-SR	9.8	74.0	-64.2

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	204	189	155	3.7
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	612	533	489	11.7
	ER	TALA (6 * 170) BINAGURI RECEIPT	940	841	677	16.2
	NER	132KV-SALAKATI - GELEPHU	0	0	26	0.6
	NER	132KV-RANGIA - DEOTHANG	0	0	46	1.1
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-4	-2	-3	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-116	-2	-10	-0.3
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-820	-264	-469	-11.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	69	0	-47	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	70	0	-47	-1.1