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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 24rd Aug 2019

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. मुख्य महाप्रबंधक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग - 793006
   Chief General Manager, 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 23.08.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-अगस्त-2019 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 23nd August 2019, 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** **24-Aug-19**

**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) | 58356 | 45568 | 38017 | 21887 | 2759 | 166587 |
| **Peak Shortage (MW)** | 797 | 0 | 0 | 0 | 213 | 1010 |
| **Energy Met (MU)** | 1308 | 1063 | 882 | 463 | 53 | 3769 |
| **Hydro Gen (MU)** | 362 | 96 | 126 | 122 | 21 | 727 |
| **Wind Gen (MU)** | 26 | 59 | 171 | ---------- | ---------- | 256 |
| **Solar Gen (MU)*** | 29.73 | 21.3 | 66.00 | 1.86 | 0.04 | 119 |
| **Energy Shortage (MU)** | 10.1 | 0.0 | 0.0 | 0.0 | 2.1 | 12.2 |
| **Maximum Demand Met during the day (MW) & time** (from NLDC SCADA) | 60854 | 46988 | 38156 | 22298 | 2808 | 168307 |
| | 20:43 | 11:00 | 19:21 | 19:53 | 18:54 | 19:43 |

**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 | 0.020 | 0.00 | 0.00 | 1.46 | 1.46 | 81.59 | 16.96 |

**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 | 10449 | 0 | 239.1 | 130.8 | 0.6 | 494 | 0.0 |
| | Haryana | 9361 | 0 | 200.7 | 163.8 | 0.5 | 210 | 0.0 |
| | Rajasthan | 10353 | 0 | 231.7 | 57.4 | -2.5 | 410 | 0.0 |
| | Delhi | 5783 | 0 | 117.0 | 101.5 | -1.3 | 113 | 0.0 |
| | UP | 20476 | 170 | 400.1 | 185.9 | 1.5 | 1465 | 0.0 |
| | Uttarakhand | 2048 | 0 | 42.9 | 14.7 | 0.8 | 215 | 0.1 |
| | HP | 1625 | 0 | 29.7 | -1.4 | -0.2 | 494 | 0.0 |
| | J&K | 2169 | 542 | 41.6 | 18.5 | 2.3 | 503 | 9.9 |
| | Chandigarh | 289 | 0 | 5.6 | 6.0 | -0.4 | 13 | 0.0 |
| WR | Chhattisgarh | 4139 | 0 | 97.5 | 40.8 | 1.0 | 232 | 0.0 |
| | Gujarat | 14019 | 0 | 313.4 | 39.5 | 5.1 | 528 | 0.0 |
| | MP | 7986 | 0 | 181.0 | 84.1 | -4.2 | 585 | 0.0 |
| | Maharashtra | 19168 | 0 | 426.8 | 136.0 | 0.4 | 626 | 0.0 |
| | Goa | 541 | 0 | 11.9 | 10.6 | 0.7 | 67 | 0.0 |
| | DD | 342 | 0 | 7.6 | 7.0 | 0.6 | 67 | 0.0 |
| | DNH | 798 | 0 | 18.9 | 19.1 | -0.2 | 39 | 0.0 |
| | Essar steel | 361 | 0 | 5.9 | 5.9 | 0.0 | 290 | 0.0 |
| SR | Andhra Pradesh | 7242 | 0 | 164.7 | 10.8 | -0.4 | 498 | 0.0 |
| | Telangana | 9190 | 0 | 193.4 | 73.3 | -1.1 | 496 | 0.0 |
| | Karnataka | 8805 | 0 | 168.0 | 32.3 | -1.0 | 492 | 0.0 |
| | Kerala | 3133 | 0 | 63.9 | 41.9 | 1.3 | 284 | 0.0 |
| | Tamil Nadu | 12915 | 0 | 284.2 | 106.8 | -1.0 | 411 | 0.0 |
| | Pondy | 367 | 0 | 7.5 | 7.7 | -0.2 | 38 | 0.0 |
| ER | Bihar | 5694 | 0 | 110.8 | 105.9 | 0.0 | 40 | 0.0 |
| | DVC | 3128 | 0 | 62.6 | -26.9 | -0.5 | 370 | 0.0 |
| | Jharkhand | 1107 | 0 | 24.8 | 16.2 | -0.3 | 80 | 0.0 |
| | Odisha | 4527 | 0 | 95.2 | 27.7 | 0.8 | 200 | 0.0 |
| | West Bengal | 8410 | 0 | 168.6 | 97.0 | -0.8 | 170 | 0.0 |
| | Sikkim | 77 | 0 | 0.7 | 1.0 | -0.3 | 50 | 0.0 |
| NER | Arunachal Pradesh | 120 | 1 | 2.6 | 2.2 | 0.4 | 36 | 0.0 |
| | Assam | 1752 | 168 | 33.2 | 29.4 | -0.7 | 285 | 2.0 |
| | Manipur | 168 | 2 | 2.1 | 2.2 | 0.0 | 48 | 0.0 |
| | Meghalaya | 318 | 0 | 5.5 | 1.4 | -0.1 | 101 | 0.0 |
| | Mizoram | 92 | 1 | 1.8 | 0.5 | 0.9 | 18 | 0.0 |
| | Nagaland | 132 | 3 | 2.7 | 2.0 | 0.3 | 49 | 0.0 |
| | Tripura | 276 | 6 | 5.1 | 3.7 | 0.5 | 78 | 0.1 |

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

| | Bhutan | Nepal | Bangladesh |
|---|---|---|---|
| Actual(MU) | 36.4 | -6.2 | -25.1 |
| Day peak (MW) | 1827.1 | -426.5 | -1102.0 |

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

| | NR | WR | SR | ER | NER | TOTAL |
|---|---|---|---|---|---|---|
| Schedule(MU) | 253.5 | -280.3 | -6.9 | 23.8 | 9.7 | -0.2 |
| Actual(MU) | 250.7 | -276.8 | -11.9 | 22.0 | 11.6 | -4.5 |
| O/D/U/D(MU) | -2.8 | 3.5 | -5.1 | -1.8 | 1.8 | -4.2 |

**F. Generation Outage(MW)**

| | NR | WR | SR | ER | NER | Total |
|---|---|---|---|---|---|---|
| Central Sector | 3859 | 16395 | 9602 | 2975 | 1042 | 33872 |
| State Sector | 8290 | 15855 | 10840 | 7550 | 50 | 42584 |
| Total | 12149 | 32249 | 20442 | 10525 | 1091 | 76456 |

**G. Sourcewise generation (MU)**

| | NR | WR | SR | ER | NER | All India |
|---|---|---|---|---|---|---|
| Coal | 554 | 1059 | 403 | 334 | 4 | 2354 |
| Lignite | 21 | 13 | 30 | 0 | 0 | 64 |
| Hydro | 362 | 96 | 126 | 122 | 21 | 727 |
| Nuclear | 28 | 31 | 55 | 0 | 0 | 114 |
| Gas, Naptha & Diesel | 37 | 59 | 16 | 0 | 22 | 134 |
| RES (Wind, Solar, Biomass & Others) | 72 | 85 | 279 | 2 | 0 | 437 |
| Total | 1073 | 1343 | 909 | 458 | 47 | 3830 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Share of RES in total generation (%) | 6.73 | 6.30 | 30.64 | 0.41 | 0.09 | 11.42 |
| Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%) | 43.00 | 15.75 | 50.57 | 27.15 | 44.01 | 33.36 |

**H. Diversity Factor**

| | |
|---|---|
| All India Demand Diversity Factor | 1.017 |

*Diversity factor = Sum of regional maximum demands / All India maximum demand*

***Source:** RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

मुख्य महाप्रबंधक (रा० भा० प्रे० के०)

## INTER-REGIONAL EXCHANGES

**Date of Reporting :** **24-Aug-19**

| Sl No | Voltage Level | Line Details | Circuit | Max Import (MW) | Max Export (MW) | Import (MU) | Export (MU) | NET (MU) (Import=(+ve) /Export =(-ve) for NET (MU) |
|---|---|---|---|---|---|---|---|---|
| **Import/Export of ER (With NR)** | | | | | | | | |
| 1 | 765kV | GAYA-VARANASI | D/C | 447 | 0 | 4.3 | 0.0 | 4.3 |
| 2 | | SASARAM-FATEHPUR | S/C | 449 | 0 | 6.5 | 0.0 | 6.5 |
| 3 | | GAYA-BALIA | S/C | 0 | 324 | 0.0 | 4.9 | -4.9 |
| 4 | HVDC | ALIPURDUAR-AGRA | - | 0 | 1001 | 0.0 | 20.6 | -20.6 |
| 5 | | PUSAULI B/B | S/C | 0 | 198 | 0.0 | 5.0 | -5.0 |
| 6 | 400 kV | PUSAULI-VARANASI | S/C | 0 | 233 | 0.0 | 5.0 | -5.0 |
| 7 | | PUSAULI -ALLAHABAD | S/C | 25 | 28 | 0.2 | 0.0 | 0.2 |
| 8 | | MUZAFFARPUR-GORAKHPUR | D/C | 19 | 478 | 0.0 | 4.2 | -4.2 |
| 9 | | PATNA-BALIA | Q/C | 0 | 510 | 0.0 | 8.9 | -8.9 |
| 10 | | BIHARSHARIFF-BALIA | D/C | 0 | 204 | 0.0 | 2.0 | -2.0 |
| 11 | | MOTIHARI-GORAKHPUR | D/C | 0 | 0 | 0.0 | 0.0 | 0.0 |
| 12 | | BIHARSHARIFF-VARANASI | D/C | 385 | 0 | 6.5 | 0.0 | 6.5 |
| 13 | 220 kV | PUSAULI-SAHUPURI | S/C | 26 | 174 | 0.0 | 2.8 | -2.8 |
| 14 | 132 kV | SONE NAGAR-RIHAND | S/C | 0 | 0 | 0.0 | 0.0 | 0.0 |
| 15 | | GARWAH-RIHAND | S/C | 30 | 0 | 0.5 | 0.0 | 0.5 |
| 16 | | KARMANASA-SAHUPURI | S/C | 0 | 0 | 0.0 | 0.0 | 0.0 |
| 17 | | KARMANASA-CHANDAULI | S/C | 0 | 0 | 0.0 | 0.0 | 0.0 |
| | | | | | **ER-NR** | **18.1** | **53.3** | **-35.2** |
| **Import/Export of ER (With WR)** | | | | | | | | |
| 18 | 765 kV | JHARSUGUDA-DHARAMJAIGARH | Q/C | 1620 | 0 | 26.9 | 0.0 | 26.9 |
| 19 | | NEW RANCHI-DHARAMJAIGARH | D/C | 1611 | 0 | 27.1 | 0.0 | 27.1 |
| 20 | | JHARSUGUDA-DURG | D/C | 396 | 0 | 6.0 | 0.0 | 6.0 |
| 21 | 400 kV | JHARSUGUDA-RAIGARH | Q/C | 603 | 0 | 8.7 | 0.0 | 8.7 |
| 22 | | RANCHI-SIPAT | D/C | 567 | 0 | 10.0 | 0.0 | 10.0 |
| 23 | 220 kV | BUDHIPADAR-RAIGARH | S/C | 0 | 96 | 0.0 | 1.2 | -1.2 |
| 24 | | BUDHIPADAR-KORBA | D/C | 149 | 0 | 2.4 | 0.0 | 2.4 |
| | | | | | **ER-WR** | **81.1** | **1.2** | **79.9** |
| **Import/Export of ER (With SR)** | | | | | | | | |
| 25 | 765 kV | ANGUL-SRIKAKULAM | D/C | 0.0 | 1393.0 | 0.0 | 23.6 | -23.6 |
| 26 | HVDC LINK | JEYPORE-GAZUWAKA B/B | D/C | 307.0 | 0.0 | 6.2 | 0.0 | 6.2 |
| 27 | | TALCHER-KOLAR BIPOLE | D/C | 0.0 | 291.0 | 0.0 | 7.3 | -7.3 |
| 28 | 400 kV | TALCHER-I/C | D/C | 645.0 | 0.0 | 14.3 | 0.0 | 14.3 |
| 29 | 220 kV | BALIMELA-UPPER-SILERRU | S/C | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | **ER-SR** | **6.2** | **30.9** | **-24.7** |
| **Import/Export of ER (With NER)** | | | | | | | | |
| 30 | 400 kV | BINAGURI-BONGAIGAON | D/C | 0 | 694 | 0.0 | 12.2 | -12 |
| 31 | | ALIPURDUAR-BONGAIGAON | D/C | 0 | 512 | 0.0 | 7.5 | -8 |
| 32 | 220 kV | ALIPURDUAR-SALAKATI | D/C | 0 | 151 | 0.0 | 2.8 | -3 |
| | | | | | **ER-NER** | **0.0** | **22.5** | **-22.5** |
| **Import/Export of NER (With NR)** | | | | | | | | |
| 33 | HVDC | BISWANATH CHARIALI-AGRA | - | 0 | 504 | 0.0 | 11.6 | -11.6 |
| | | | | | **NER-NR** | **0.0** | **11.6** | **-11.6** |
| **Import/Export of WR (With NR)** | | | | | | | | |
| 34 | HVDC | CHAMPA-KURUKSHETRA | D/C | 0 | 2527 | 0.0 | 60.6 | -60.6 |
| 35 | | V'CHAL B/B | D/C | 362 | 202 | 8.7 | 0.5 | 8.2 |
| 36 | | APL -MHG | D/C | 0 | 1739 | 0.0 | 37.4 | -37.4 |
| 37 | 765 kV | GWALIOR-AGRA | D/C | 0 | 3025 | 0.0 | 53.0 | -53.0 |
| 38 | | PHAGI-GWALIOR | D/C | 0 | 814 | 0.0 | 14.2 | -14.2 |
| 39 | | JABALPUR-ORAI | D/C | 0 | 961 | 0.0 | 34.9 | -34.9 |
| 40 | | GWALIOR-ORAI | S/C | 351 | 0 | 7.1 | 0.0 | 7.1 |
| 41 | | SATNA-ORAI | S/C | 0 | 1442 | 0.0 | 27.9 | -27.9 |
| 42 | | CHITTORGARH-BANASKANTHA | D/C | 0 | 1010 | 0.0 | 9.1 | 9.1 |
| 43 | 400 kV | ZERDA-KANKROLI | S/C | 34 | 153 | 0.1 | 1.2 | -1.1 |
| 44 | | ZERDA -BHINMAL | S/C | 121 | 146 | 0.2 | 1.3 | -1.2 |
| 45 | | V'CHAL -RIHAND | S/C | 968 | 0 | 22.9 | 0.0 | 22.9 |
| 46 | | RAPP-SHUJALPUR | D/C | 0 | 356 | 0 | 2 | -2 |
| 47 | 220 kV | BHANPURA-RANPUR | S/C | 26 | 61 | 0.1 | 0.5 | -0.5 |
| 48 | | BHANPURA-MORAK | S/C | 0 | 99 | 0.0 | 1.5 | -1.5 |
| 49 | | MEHGAON-AURAIYA | S/C | 12 | 0 | 0.3 | 0.0 | 0.3 |
| 50 | | MALANPUR-AURAIYA | S/C | 7 | 68 | 0.0 | 0.8 | -0.8 |
| 51 | 132kV | GWALIOR-SAWAI MADHOPUR | S/C | 0 | 0 | 0.0 | 0.0 | 0.0 |
| | | | | | **WR-NR** | **39.2** | **245.0** | **-187.6** |
| **Import/Export of WR (With SR)** | | | | | | | | |
| 52 | HVDC LINK | BHADRAWATI B/B | - | 189 | 0 | 0.0 | 0.0 | 0.0 |
| 53 | | BARSUR-L.SILERU | - | 0 | 0 | 0.0 | 0.0 | 0.0 |
| 54 | 765 kV | SOLAPUR-RAICHUR | D/C | 1667 | 203 | 14.8 | 0.1 | 14.8 |
| 55 | | WARDHA-NIZAMABAD | D/C | 68 | 1660 | 0.0 | 20.1 | -20.1 |
| 56 | 400 kV | KOLHAPUR-KUDGI | D/C | 1098 | 0 | 20.9 | 0.0 | 20.9 |
| 57 | 220 kV | KOLHAPUR-CHIKODI | D/C | 0 | 0 | 0.0 | 0.0 | 0.0 |
| 58 | | PONDA-AMBEWADI | S/C | 1 | 61 | 0.0 | 1.2 | -1.2 |
| 59 | | XELDEM-AMBEWADI | S/C | 1 | 35 | 0.7 | 0.0 | 0.7 |
| | | | | | **WR-SR** | **36.4** | **21.4** | **15.0** |
| **TRANSNATIONAL EXCHANGE** | | | | | | | | |
| 60 | | BHUTAN | | | | | | **36.4** |
| 61 | | NEPAL | | | | | | **-6.2** |
| 62 | | BANGLADESH | | | | | | **-25.1** |