



**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: 25<sup>th</sup> Sep 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., डोंगतिह, 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 24.09.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-सितंबर-2019 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 24<sup>rd</sup> Sep 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

25-Sep-19

A. Power Supply Position at All India and Regional level

|   | NR             | WR             | SR             | ER             | NER           | Total           |
|---|----------------|----------------|----------------|----------------|---------------|-----------------|
| Demand Met during Evening Peak hrs(MW)<br>(at 2000 hrs; from RLDCs) | 55112          | 45709          | 38776          | 20656          | 2323          | 162576          |
| Peak Shortage (MW)  | 1043           | 0              | 0              | 0              | 349           | 1392            |
| Energy Met (MU)   | 1177           | 1029           | 841            | 432            | 42            | 3521            |
| Hydro Gen (MU)  | 255            | 123            | 148            | 138            | 27            | 691             |
| Wind Gen (MU)   | 7              | 13             | 21             | -----          | -----         | 40              |
| Solar Gen (MU)*   | 27.75          | 17.3           | 59.10          | 1.98           | 0.04          | 106             |
| Energy Shortage (MU)  | 9.6            | 0.0            | 0.0            | 0.0            | 9.8           | 19.4            |
| Maximum Demand Met during the day<br>(MW) & time (from NLDC SCADA)  | 55831<br>19:25 | 46107<br>19:00 | 39212<br>18:55 | 20894<br>20:13 | 2441<br>17:57 | 163738<br>19:21 |

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 | 0.024 | 0.00  | 0.00      | 1.13      | 1.13  | 75.51      | 23.36   |

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            | 9810                                | 0                                   | 220.3           | 121.8                | -0.7             | 41          | 0.0                  |
|        | Haryana           | 8631                                | 0                                   | 186.1           | 143.1                | 0.4              | 268         | 0.0                  |
|        | Rajasthan         | 10095                               | 0                                   | 228.5           | 74.4                 | -1.8             | 297         | 0.0                  |
|        | Delhi             | 4733                                | 0                                   | 99.3            | 83.3                 | -0.8             | 141         | 0.0                  |
|        | UP                | 16888                               | 520                                 | 328.4           | 143.0                | 0.5              | 551         | 0.0                  |
|        | Uttarakhand       | 1893                                | 0                                   | 39.7            | 14.9                 | 0.8              | 131         | 0.0                  |
|        | HP                | 1473                                | 0                                   | 29.8            | 9.1                  | 0.9              | 93          | 0.1                  |
|        | J&K               | 2091                                | 523                                 | 39.8            | 23.2                 | -0.4             | 343         | 9.5                  |
| WR     | Chhattisgarh      | 255                                 | 0                                   | 5.3             | 5.6                  | -0.3             | 13          | 0.0                  |
|        | Gujarat           | 14313                               | 0                                   | 320.5           | 92.1                 | 4.1              | 502         | 0.0                  |
|        | MP                | 7949                                | 0                                   | 163.5           | 70.5                 | -3.7             | 207         | 0.0                  |
|        | Maharashtra       | 18614                               | 0                                   | 403.0           | 167.8                | 1.4              | 822         | 0.0                  |
|        | Goa               | 541                                 | 0                                   | 11.0            | 11.1                 | -0.7             | 49          | 0.0                  |
|        | DD                | 337                                 | 0                                   | 7.5             | 7.0                  | 0.5              | 44          | 0.0                  |
|        | DNH               | 793                                 | 0                                   | 18.6            | 18.8                 | -0.2             | 41          | 0.0                  |
|        | Essar steel       | 316                                 | 0                                   | 5.8             | 5.6                  | 0.2              | 301         | 0.0                  |
| SR     | Andhra Pradesh    | 7273                                | 0                                   | 153.1           | 44.7                 | 0.6              | 498         | 0.0                  |
|        | Telangana         | 8170                                | 0                                   | 169.4           | 35.0                 | -2.5             | 338         | 0.0                  |
|        | Karnataka         | 8034                                | 0                                   | 158.3           | 46.4                 | -0.3             | 496         | 0.0                  |
|        | Kerala            | 3463                                | 0                                   | 70.2            | 48.5                 | 1.1              | 250         | 0.0                  |
|        | Tamil Nadu        | 13522                               | 0                                   | 282.4           | 132.2                | -0.8             | 470         | 0.0                  |
|        | Pondy             | 367                                 | 0                                   | 7.5             | 7.9                  | -0.5             | 13          | 0.0                  |
| ER     | Bihar             | 5210                                | 0                                   | 98.1            | 96.4                 | -0.4             | 90          | 0.0                  |
|        | DVC               | 2799                                | 0                                   | 61.0            | -15.1                | 1.5              | 350         | 0.0                  |
|        | Jharkhand         | 1119                                | 0                                   | 24.1            | 20.4                 | -1.6             | 50          | 0.0                  |
|        | Odisha            | 4607                                | 0                                   | 95.0            | 27.5                 | 8.3              | 570         | 0.0                  |
|        | West Bengal       | 7658                                | 0                                   | 153.1           | 52.7                 | -2.2             | 200         | 0.0                  |
|        | Sikkim            | 90                                  | 0                                   | 0.9             | 1.3                  | -0.4             | 15          | 0.0                  |
| NER    | Arunachal Pradesh | 101                                 | 3                                   | 2.0             | 2.6                  | -0.6             | 21          | 0.0                  |
|        | Assam             | 1466                                | 41                                  | 24.7            | 20.4                 | -0.6             | 90          | 9.8                  |
|        | Manipur           | 141                                 | 7                                   | 2.3             | 2.4                  | -0.1             | 6           | 0.0                  |
|        | Meghalaya         | 308                                 | 3                                   | 5.7             | 1.2                  | -0.4             | 13          | 0.0                  |
|        | Mizoram           | 63                                  | 4                                   | 1.6             | 0.8                  | 0.5              | 9           | 0.0                  |
|        | Nagaland          | 98                                  | 7                                   | 2.0             | 2.3                  | -0.4             | 3           | 0.0                  |
|        | Tripura           | 246                                 | 12                                  | 4.2             | 5.0                  | -0.9             | 35          | 0.0                  |

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

|               | Bhutan | Nepal  | Bangladesh |
|---------------|--------|--------|------------|
| Actual(MU)    | 44.9   | -3.6   | -25.4      |
| Day peak (MW) | 1852.6 | -156.0 | -1099.0    |

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

|              | NR    | WR     | SR   | ER    | NER   | TOTAL |
|--------------|-------|--------|------|-------|-------|-------|
| Schedule(MU) | 285.8 | -229.4 | 16.4 | -59.0 | -6.5  | 7.2   |
| Actual(MU)   | 283.7 | -213.4 | 8.9  | -71.3 | -11.0 | -3.2  |
| O/D/U/D(MU)  | -2.2  | 16.0   | -7.5 | -12.2 | -4.6  | -10.5 |

F. Generation Outage(MW)

|                | NR    | WR    | SR    | ER   | NER | Total |
|----------------|-------|-------|-------|------|-----|-------|
| Central Sector | 4660  | 14860 | 6622  | 2050 | 556 | 28748 |
| State Sector   | 8030  | 20087 | 7333  | 6300 | 11  | 41761 |
| Total          | 12690 | 34946 | 13955 | 8350 | 567 | 70508 |

G. Sourcewise generation (MU)

|                                     | NR  | WR   | SR  | ER  | NER | All India |
|-------------------------------------|-----|------|-----|-----|-----|-----------|
| Coal                                | 523 | 971  | 464 | 392 | 7   | 2356      |
| Lignite                             | 21  | 12   | 44  | 0   | 0   | 77        |
| Hydro                               | 255 | 123  | 148 | 138 | 27  | 691       |
| Nuclear                             | 27  | 29   | 60  | 0   | 0   | 116       |
| Gas, Naptha & Diesel                | 42  | 81   | 16  | 0   | 25  | 164       |
| RES (Wind, Solar, Biomass & Others) | 45  | 34   | 107 | 2   | 0   | 188       |
| Total                               | 913 | 1250 | 839 | 531 | 59  | 3592      |

|   |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|
| Share of RES in total generation (%)                                      | 4.94  | 2.74  | 12.74 | 0.37  | 0.07  | 5.24  |
| Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%) | 35.93 | 14.89 | 37.56 | 26.28 | 45.26 | 27.72 |

H. Diversity Factor

|                                   |       |
|-----------------------------------|-------|
| All India Demand Diversity Factor | 1.005 |
|-----------------------------------|-------|

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.

| INTER-REGIONAL EXCHANGES              |               |                          |         |                 |                 |               |             | Date of Reporting :                            | 25-Sep-19     |
|---------------------------------------|---------------|--------------------------|---------|-----------------|-----------------|---------------|-------------|--|---------------|
| Sl No                                 | Voltage Level | Line Details             | Circuit | Max Import (MW) | Max Export (MW) | Import (MU)   | Export (MU) | NET (MU)                                       |               |
|                                       |               |                          |         |                 |                 |               |             | Import=(+ve)<br>/Export =(-ve)<br>for NET (MU) |               |
| <b>Import/Export of ER (With NR)</b>  |               |                          |         |                 |                 |               |             |  |               |
| 1                                     | 765kV         | GAYA-VARANASI            | D/C     | 0               | 472             | 0.0           | 8.3         | -8.3   |               |
| 2                                     |               | SASARAM-FATEHPUR         | S/C     | 46              | 185             | 0.0           | 1.4         | -1.4   |               |
| 3                                     |               | GAYA-BALIA               | S/C     | 0               | 313             | 0.0           | 6.0         | -6.0   |               |
| 4                                     | HVDC          | ALIPURDUAR-AGRA          | -       | 0               | 1201            | 0.0           | 30.0        | -30.0  |               |
| 5                                     |               | PUSAULI B/B              | S/C     | 0               | 196             | 0.0           | 4.8         | -4.8   |               |
| 6                                     | 400 kV        | PUSAULI-VARANASI         | S/C     | 0               | 160             | 0.0           | 3.2         | -3.2   |               |
| 7                                     |               | PUSAULI -ALLAHABAD       | S/C     | 0               | 98              | 0.0           | 1.5         | -1.5   |               |
| 8                                     |               | MUZAFFARPUR-GORAKHPUR    | D/C     | 0               | 959             | 0.0           | 16.3        | -16.3  |               |
| 9                                     |               | PATNA-BALIA              | Q/C     | 0               | 876             | 0.0           | 17.6        | -17.6  |               |
| 10                                    |               | BIHARSHARIFF-BALIA       | D/C     | 0               | 276             | 0.0           | 4.5         | -4.5   |               |
| 11                                    |               | MOTIHARI-GORAKHPUR       | D/C     | 0               | 4               | 0.0           | 0.0         | 0.0  |               |
| 12                                    |               | BIHARSHARIFF-VARANASI    | D/C     | 11              | 205             | 0.0           | 1.8         | -1.8   |               |
| 13                                    | 220 kV        | PUSAULI-SAHUPURI         | S/C     | 0               | 170             | 0.0           | 2.9         | -2.9   |               |
| 14                                    | 132 kV        | SONE NAGAR-RIHAND        | S/C     | 0               | 0               | 0.0           | 0.0         | 0.0  |               |
| 15                                    |               | GARWAH-RIHAND            | S/C     | 30              | 0               | 0.4           | 0.0         | 0.4  |               |
| 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  |               |
|                                       |               |                          |         |                 |                 | <b>ER-NR</b>  | <b>0.4</b>  | <b>98.2</b>                                    | <b>-97.9</b>  |
| <b>Import/Export of ER (With WR)</b>  |               |                          |         |                 |                 |               |             |  |               |
| 18                                    | 765 kV        | JHARSUGUDA-DHARAMJAIGARH | Q/C     | 1088            | 0               | 20.0          | 0.0         | 20.0   |               |
| 19                                    |               | NEW RANCHI-DHARAMJAIGARH | D/C     | 746             | 68              | 10.2          | 0.0         | 10.2   |               |
| 20                                    |               | JHARSUGUDA-DURG          | D/C     | 204             | 0               | 2.7           | 0.0         | 2.7  |               |
| 21                                    | 400 kV        | JHARSUGUDA-RAIGARH       | Q/C     | 179             | 125             | 1.1           | 0.0         | 1.1  |               |
| 22                                    |               | RANCHI-SIPAT             | D/C     | 264             | 2               | 3.7           | 0.0         | 3.7  |               |
| 23                                    | 220 kV        | BUDHIPADAR-RAIGARH       | S/C     | 5               | 62              | 0.0           | 0.7         | -0.7   |               |
| 24                                    |               | BUDHIPADAR-KORBA         | D/C     | 126             | 0               | 2.3           | 0.0         | 2.3  |               |
|                                       |               |                          |         |                 |                 | <b>ER-WR</b>  | <b>40.0</b> | <b>0.7</b>                                     | <b>39.3</b>   |
| <b>Import/Export of ER (With SR)</b>  |               |                          |         |                 |                 |               |             |  |               |
| 25                                    | 765 kV        | ANGUL-SRIKAKULAM         | D/C     | 0.0             | 1438.0          | 0.0           | 22.2        | -22.2  |               |
| 26                                    | HVDC          | JEYPORE-GAZUWAKA B/B     | D/C     | 309.0           | 0.0             | 7.3           | 0.0         | 7.3  |               |
| 27                                    | LINK          | TALCHER-KOLAR BIPOLE     | D/C     | 0.0             | 987.0           | 0.0           | 18.9        | -18.9  |               |
| 28                                    | 400 kV        | TALCHER-I/C              | D/C     | 127.0           | 245.0           | 0.0           | 0.3         | -0.3   |               |
| 29                                    | 220 kV        | BALIMELA-UPPER-SILERRU   | S/C     | 1.0             | 0.0             | 0.0           | 0.0         | 0.0  |               |
|                                       |               |                          |         |                 |                 | <b>ER-SR</b>  | <b>7.3</b>  | <b>41.1</b>                                    | <b>-33.8</b>  |
| <b>Import/Export of ER (With NER)</b> |               |                          |         |                 |                 |               |             |  |               |
| 30                                    | 400 kV        | BINAGURI-BONGAIGAON      | D/C     | 0               | 431             | 0.0           | 4.8         | -5   |               |
| 31                                    |               | ALIPURDUAR-BONGAIGAON    | D/C     | 274             | 133             | 3.4           | 0.0         | 3  |               |
| 32                                    | 220 kV        | ALIPURDUAR-SALAKATI      | D/C     | 8               | 86              | 0.0           | 0.9         | -1   |               |
|                                       |               |                          |         |                 |                 | <b>ER-NER</b> | <b>3.4</b>  | <b>5.6</b>                                     | <b>-2.3</b>   |
| <b>Import/Export of NER (With NR)</b> |               |                          |         |                 |                 |               |             |  |               |
| 33                                    | HVDC          | BISWANATH CHARIALI-AGRA  | -       | 0               | 653             | 0.0           | 15.4        | -15.4  |               |
|                                       |               |                          |         |                 |                 | <b>NER-NR</b> | <b>0.0</b>  | <b>15.4</b>                                    | <b>-15.4</b>  |
| <b>Import/Export of WR (With NR)</b>  |               |                          |         |                 |                 |               |             |  |               |
| 34                                    | HVDC          | CHAMPA-KURUKSHETRA       | D/C     | 0               | 1508            | 0.0           | 30.2        | -30.2  |               |
| 35                                    |               | V'CHAL B/B               | D/C     | 451             | 0               | 10.3          | 0.0         | 10.3   |               |
| 36                                    |               | APL -MHG                 | D/C     | 0               | 1739            | 0.0           | 40.6        | -40.6  |               |
| 37                                    | 765 kV        | GWALIOR-AGRA             | D/C     | 0               | 2069            | 0.0           | 38.1        | -38.1  |               |
| 38                                    |               | PHAGI-GWALIOR            | D/C     | 0               | 1357            | 0.0           | 27.6        | -27.6  |               |
| 39                                    |               | JABALPUR-ORAI            | D/C     | 0               | 784             | 0.0           | 29.9        | -29.9  |               |
| 40                                    |               | GWALIOR-ORAI             | S/C     | 305             | 0               | 6.1           | 0.0         | 6.1  |               |
| 41                                    |               | SATNA-ORAI               | S/C     | 0               | 1362            | 0.0           | 29.3        | -29.3  |               |
| 42                                    |               | CHITTORGARH-BANASKANTHA  | D/C     | 0               | 759             | 0.0           | 11.2        | -11.2  |               |
| 43                                    |               | ZERDA-KANKROLI           | S/C     | 68              | 111             | 0.1           | 0.9         | -0.8   |               |
| 44                                    | 400 kV        | ZERDA -BHINMAL           | S/C     | 39              | 267             | 0.0           | 3.6         | -3.5   |               |
| 45                                    |               | V'CHAL -RIHAND           | S/C     | 966             | 0               | 22.9          | 0.0         | 22.9   |               |
| 46                                    | 220 kV        | RAPP-SHUJALPUR           | D/C     | 0               | 386             | 0             | 5           | -5   |               |
| 47                                    |               | BHANPURA-RANPUR          | S/C     | 3               | 63              | 0.0           | 0.8         | -0.8   |               |
| 48                                    |               | BHANPURA-MORAK           | S/C     | 0               | 97              | 0.0           | 1.4         | -1.4   |               |
| 49                                    |               | MEHGAON-AURAIYA          | S/C     | 63              | 4               | 0.6           | 0.0         | 0.6  |               |
| 50                                    | 132kV         | MALANPUR-AURAIYA         | S/C     | 31              | 21              | 0.1           | 0.1         | 0.0  |               |
| 51                                    |               | GWALIOR-SAWAI MADHOPUR   | S/C     | 0               | 0               | 0.0           | 0.0         | 0.0  |               |
|                                       |               |                          |         |                 |                 | <b>WR-NR</b>  | <b>40.1</b> | <b>219.1</b>                                   | <b>-179.0</b> |
| <b>Import/Export of WR (With SR)</b>  |               |                          |         |                 |                 |               |             |  |               |
| 52                                    | HVDC          | BHADRAWATI B/B           | -       | 195             | 0               | 4.8           | 0.0         | 4.8  |               |
| 53                                    | LINK          | BARSUR-L.SILERU          | -       | 0               | 0               | 0.0           | 0.0         | 0.0  |               |
| 54                                    | 765 kV        | SOLAPUR-RAICHUR          | D/C     | 1146            | 915             | 8.5           | 3.1         | 5.4  |               |
| 55                                    |               | WARDHA-NIZAMABAD         | D/C     | 0               | 1440            | 0.0           | 20.1        | -20.1  |               |
| 56                                    | 400 kV        | KOLHAPUR-KUDGI           | D/C     | 881             | 0               | 14.4          | 0.0         | 14.4   |               |
| 57                                    | 220 kV        | KOLHAPUR-CHIKODI         | D/C     | 0               | 0               | 0.0           | 0.0         | 0.0  |               |
| 58                                    |               | PONDA-AMBEWADI           | S/C     | 0               | 68              | 0.0           | 1.4         | -1.4   |               |
| 59                                    |               | XELDEM-AMBEWADI          | S/C     | 0               | 39              | 0.8           | 0.0         | 0.8  |               |
|                                       |               |                          |         |                 |                 | <b>WR-SR</b>  | <b>28.4</b> | <b>24.6</b>                                    | <b>3.8</b>    |
| <b>TRANSNATIONAL EXCHANGE</b>         |               |                          |         |                 |                 |               |             |  |               |
| 60                                    |               | BHUTAN                   |         |                 |                 |               |             | <b>44.9</b>                                    |               |
| 61                                    |               | NEPAL                    |         |                 |                 |               |             | <b>-3.6</b>                                    |               |
| 62                                    |               | BANGLADESH               |         |                 |                 |               |             | <b>-25.4</b>                                   |               |