



**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: 12<sup>th</sup> August 2018

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, Kolkata, 700033
2. महाप्रबंधक, ऊ.क्षे.भा.प्रे.के., 18/ ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016  
General Manager, 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., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. महाप्रबंधक, द.क्षे.भा.प्रे.के., 29, रेस कोर्स क्रॉस रोड, बंगलुरु -560009  
General Manager, SRLDC, 29, Race Course Cross Road, Bangalore-560009

**Sub: Daily PSP Report for the date 11.08.2018.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-अगस्त-2018 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 11<sup>th</sup> August 2018, 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

12-Aug-18

A. Maximum Demand

|   | NR             | WR             | SR             | ER             | NER           | Total           |
|---|----------------|----------------|----------------|----------------|---------------|-----------------|
| Demand Met during Evening Peak hrs(MW)<br>(at 2000 hrs: from RLDCs) | 54621          | 46884          | 38562          | 20952          | 2642          | 163661          |
| Peak Shortage (MW)  | 1070           | 0              | 0              | 0              | 209           | 1279            |
| Energy Met (MU)   | 1276           | 1103           | 881            | 467            | 52            | 3780            |
| Hydro Gen (MU)  | 314            | 17             | 123            | 111            | 24            | 589             |
| Wind Gen (MU)   | 50             | 156            | 232            | -----          | -----         | 438             |
| Solar Gen (MU)*   | 21.76          | 13.92          | 23.69          | 0.59           | 0.02          | 60              |
| Energy Shortage (MU)  | 9.1            | 0.0            | 0.0            | 0.0            | 1.7           | 10.8            |
| Maximum Demand Met during the day<br>(MW) & time (from NLDC SCADA)  | 57495<br>00:14 | 49558<br>09:45 | 39545<br>07:43 | 21920<br>20:54 | 2663<br>19:56 | 166159<br>19:53 |

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 | 0.023 | 0.00  | 0.00      | 1.79      | 1.79  | 86.62      | 11.59   |

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            | 11177                               | 0                                   | 249.1           | 135.4                | -0.4             | 88          | 0.0                  |     |
|             | Haryana           | 8810                                | 0                                   | 191.0           | 143.8                | 0.7              | 169         | 0.0                  |     |
|             | Rajasthan         | 10621                               | 0                                   | 226.2           | 47.5                 | -0.6             | 303         | 0.0                  |     |
|             | Delhi             | 5755                                | 0                                   | 117.6           | 95.9                 | -0.7             | 181         | 0.1                  |     |
|             | UP                | 18479                               | 0                                   | 379.2           | 190.9                | 0.0              | 351         | 0.0                  |     |
|             | Uttarakhand       | 1859                                | 0                                   | 40.8            | 21.1                 | 0.1              | 149         | 0.0                  |     |
|             | HP                | 1397                                | 0                                   | 28.6            | -4.4                 | 4.2              | 360         | 0.0                  |     |
|             | J&K               | 1925                                | 481                                 | 38.0            | 17.9                 | -5.3             | 31          | 9.1                  |     |
|             | Chandigarh        | 286                                 | 0                                   | 5.9             | 6.3                  | -0.4             | 7           | 0.0                  |     |
|             | WR                | Chhattisgarh                        | 3576                                | 0               | 85.8                 | 21.5             | -1.7        | 119                  | 0.0 |
| Gujarat     |                   | 15691                               | 0                                   | 352.1           | 81.3                 | 0.7              | 542         | 0.0                  |     |
| MP          |                   | 8081                                | 0                                   | 178.5           | 63.3                 | -2.0             | 397         | 0.0                  |     |
| Maharashtra |                   | 20126                               | 0                                   | 441.3           | 118.8                | -0.2             | 564         | 0.0                  |     |
| Goa         |                   | 444                                 | 0                                   | 9.5             | 9.0                  | -0.1             | 28          | 0.0                  |     |
| DD          |                   | 341                                 | 0                                   | 7.7             | 6.7                  | 1.0              | 84          | 0.0                  |     |
| DNH         |                   | 776                                 | 0                                   | 18.1            | 17.2                 | 1.0              | 65          | 0.0                  |     |
| Essar steel |                   | 521                                 | 0                                   | 10.2            | 10.0                 | 0.3              | 321         | 0.0                  |     |
| SR          |                   | Andhra Pradesh                      | 6917                                | 0               | 158.3                | -4.9             | -0.2        | 495                  | 0.0 |
|             |                   | Telangana                           | 7962                                | 0               | 171.4                | 92.5             | -1.1        | 489                  | 0.0 |
|             | Karnataka         | 9104                                | 0                                   | 180.2           | 40.0                 | 0.8              | 486         | 0.0                  |     |
|             | Kerala            | 3120                                | 0                                   | 61.9            | 23.0                 | -0.1             | 192         | 0.0                  |     |
|             | Tamil Nadu        | 13984                               | 0                                   | 301.7           | 85.4                 | -0.6             | 498         | 0.0                  |     |
|             | Pondy             | 340                                 | 0                                   | 7.5             | 7.6                  | -0.1             | 63          | 0.0                  |     |
| ER          | Bihar             | 4756                                | 0                                   | 92.6            | 90.5                 | 0.9              | 100         | 0.0                  |     |
|             | DVC               | 2929                                | 0                                   | 67.8            | -24.0                | 3.1              | 200         | 0.0                  |     |
|             | Jharkhand         | 1064                                | 0                                   | 24.8            | 18.8                 | 0.4              | 50          | 0.0                  |     |
|             | Odisha            | 5079                                | 0                                   | 104.8           | 55.2                 | 1.8              | 200         | 0.0                  |     |
|             | West Bengal       | 8466                                | 0                                   | 176.3           | 65.8                 | 3.7              | 490         | 0.0                  |     |
|             | Sikkim            | 80                                  | 0                                   | 1.0             | 1.3                  | -0.3             | 5           | 0.0                  |     |
| NER         | Arunachal Pradesh | 110                                 | 7                                   | 2.5             | 2.5                  | 0.0              | 0           | 0.0                  |     |
|             | Assam             | 1705                                | 134                                 | 32.2            | 27.4                 | 1.5              | 185         | 1.6                  |     |
|             | Manipur           | 141                                 | 24                                  | 2.5             | 2.3                  | 0.2              | 21          | 0.0                  |     |
|             | Meghalaya         | 309                                 | 4                                   | 5.6             | 0.6                  | -0.1             | 25          | 0.0                  |     |
|             | Mizoram           | 79                                  | 3                                   | 1.7             | 0.9                  | 0.4              | 11          | 0.0                  |     |
|             | Nagaland          | 115                                 | 6                                   | 2.5             | 1.8                  | 0.3              | 26          | 0.0                  |     |
|             | Tripura           | 275                                 | 6                                   | 4.7             | 4.4                  | 0.4              | 49          | 0.0                  |     |

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

|               | Bhutan | Nepal  | Bangladesh |
|---------------|--------|--------|------------|
| Actual(MU)    | 33.2   | -4.4   | -15.8      |
| Day peak (MW) | 1547.3 | -383.4 | -691.4     |

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

|              | NR    | WR     | SR   | ER    | NER  | TOTAL |
|--------------|-------|--------|------|-------|------|-------|
| Schedule(MU) | 260.7 | -239.8 | 12.5 | -31.6 | -0.5 | 1.4   |
| Actual(MU)   | 251.5 | -239.8 | 8.7  | -20.5 | 0.8  | 0.7   |
| O/D/U/D(MU)  | -9.2  | 0.0    | -3.9 | 11.1  | 1.3  | -0.7  |

F. Generation Outage(MW)

|                | NR    | WR    | SR    | ER   | NER | Total |
|----------------|-------|-------|-------|------|-----|-------|
| Central Sector | 5281  | 16623 | 10012 | 1715 | 363 | 33994 |
| State Sector   | 6540  | 14601 | 11840 | 7115 | 50  | 40145 |
| Total          | 11821 | 31224 | 21852 | 8830 | 413 | 74140 |

G. Sourcewise generation (MU)

|                                     | NR   | WR   | SR  | ER  | NER | All India |
|-------------------------------------|------|------|-----|-----|-----|-----------|
| Thermal (Coal & Lignite)            | 601  | 1105 | 421 | 397 | 6   | 2529      |
| Hydro                               | 314  | 18   | 123 | 111 | 24  | 589       |
| Nuclear                             | 27   | 27   | 24  | 0   | 0   | 79        |
| Gas, Naptha & Diesel                | 24   | 43   | 24  | 0   | 25  | 115       |
| RES (Wind, Solar, Biomass & Others) | 85   | 170  | 295 | 1   | 0   | 551       |
| Total                               | 1051 | 1362 | 887 | 508 | 56  | 3864      |

|   |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|
| Share of RES in total generation (%)                                      | 8.13  | 12.49 | 33.29 | 0.12  | 0.08  | 14.27 |
| Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%) | 40.58 | 15.79 | 49.83 | 21.94 | 43.58 | 31.55 |

H. Diversity Factor

|                                   |       |
|-----------------------------------|-------|
| All India Demand Diversity Factor | 1.030 |
|-----------------------------------|-------|

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 : 12-Aug-18

Import=(+ve)  
/Export =(-ve)  
for NET (MU)

| Sl No                                 | Voltage Level  | Line Details                 | Circuit        | Max Import (MW) | Max Export (MW) | Import (MU) | Export (MU)  | NET (MU)      |      |
|---------------------------------------|----------------|------------------------------|----------------|-----------------|-----------------|-------------|--------------|---------------|------|
| <b>Import/Export of ER (With NR)</b>  |                |                              |                |                 |                 |             |              |               |      |
| 1                                     | 765kV          | GAYA-VARANASI                | D/C            | 0               | 445             | 0.0         | 6.8          | -6.8          |      |
| 2                                     |                | SASARAM-FATEHPUR             | S/C            | 283             | 0               | 3.2         | 0.0          | 3.2           |      |
| 3                                     |                | GAYA-BALIA                   | S/C            | 0               | 345             | 0.0         | 6.6          | -6.6          |      |
| 4                                     |                | ALIPURDUAR-AGRA              | -              | 0               | 687             | 0.0         | 15.4         | -15.4         |      |
| 5                                     | HVDC           | PUSAULI B/B                  | S/C            | 0               | 200             | 0.0         | 3.4          | -3.4          |      |
| 6                                     |                | PUSAULI-VARANASI             | S/C            | 0               | 68              | 0.0         | 0.0          | 0.0           |      |
| 7                                     | 400 kV         | PUSAULI -ALLAHABAD           | S/C            | 0               | 87              | 0.0         | 0.0          | 0.0           |      |
| 8                                     |                | MUZAFFARPUR-GORAKHPUR        | D/C            | 0               | 778             | 0.0         | 12.4         | -12.4         |      |
| 9                                     |                | PATNA-BALIA                  | Q/C            | 0               | 976             | 0.0         | 17.2         | -17.2         |      |
| 10                                    |                | BIHARSHARIFF-BALIA           | D/C            | 0               | 244             | 0.0         | 6.0          | -6.0          |      |
| 11                                    |                | MOTIHARI-GORAKHPUR           | D/C            | 119             | 0               | 3.7         | 0.0          | 3.7           |      |
| 12                                    |                | BIHARSHARIFF-VARANASI        | D/C            | 7               | 0               | 0.0         | 0.9          | -0.9          |      |
| 13                                    | 220 kV         | PUSAULI-SAHUPURI             | S/C            | 0               | 130             | 0.0         | 3.8          | -3.8          |      |
| 14                                    | 132 kV         | SONE NAGAR-RIHAND            | S/C            | 0               | 0               | 0.0         | 0.0          | 0.0           |      |
| 15                                    |                | GARWAH-RIHAND                | S/C            | 35              | 0               | 0.6         | 0.0          | 0.6           |      |
| 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>7.5</b>  | <b>72.4</b>  | <b>-64.9</b>  |      |
| <b>Import/Export of ER (With WR)</b>  |                |                              |                |                 |                 |             |              |               |      |
| 18                                    | 765 kV         | JHARSUGUDA-DHARAMJAIGARH S/C | D/C            | 1054            | 1               | 17.3        | 0.0          | 17.3          |      |
| 19                                    |                | NEW RANCHI-DHARAMJAIGARH     | D/C            | 1111            | 3086            | 20.7        | 0.0          | 20.7          |      |
| 20                                    | 400 kV         | JHARSUGUDA-RAIGARH           | Q/C            | 1390            | 0               | 22.1        | 0.0          | 22.1          |      |
| 21                                    |                | RANCHI-SIPAT                 | D/C            | 502             | 0               | 8.9         | 0.0          | 8.9           |      |
| 22                                    | 220 kV         | BUDHIPADAR-RAIGARH           | S/C            | 190             | 0               | 2.5         | 0.0          | 2.5           |      |
| 23                                    |                | BUDHIPADAR-KORBA             | D/C            | 173             | 0               | 3.0         | 0.0          | 3.0           |      |
| <b>ER-WR</b>                          |                |                              |                |                 |                 | <b>74.6</b> | <b>0.0</b>   | <b>74.6</b>   |      |
| <b>Import/Export of ER (With SR)</b>  |                |                              |                |                 |                 |             |              |               |      |
| 24                                    | 765 kV         | ANGUL-SRIKAKULAM             | D/C            | 0.0             | 1480.8          | 0.0         | 13.9         | -13.9         |      |
| 25                                    | HVDC           | JEYPORE-GAZUWAKA B/B         | D/C            | 0.0             | 416.8           | 0.0         | 9.9          | -9.9          |      |
| 26                                    | LINK           | TALCHER-KOLAR BIPOLE         | D/C            | 0.0             | 1778.5          | 0.0         | 24.8         | -24.8         |      |
| 27                                    | 400 kV         | TALCHER-I/C                  | D/C            | 1073.0          | 0.8             | 0.0         | 18.5         | -18.5         |      |
| 28                                    | 220 kV         | BALIMELA-UPPER-SILERRU       | S/C            | 0.0             | 0.0             | 0.0         | 0.0          | 0.0           |      |
| <b>ER-SR</b>                          |                |                              |                |                 |                 | <b>0.0</b>  | <b>48.6</b>  | <b>-48.6</b>  |      |
| <b>Import/Export of ER (With NER)</b> |                |                              |                |                 |                 |             |              |               |      |
| 29                                    | 400 kV         | BINAGURI-BONGAIGAON          | D/C            | 0               | 596             | 0.0         | 9.7          | -10           |      |
| 30                                    |                | ALIPURDUAR-BONGAIGAON        | D/C            | 84              | 302             | 0.0         | 3.3          | -3            |      |
| 31                                    | 220 kV         | ALIPURDUAR-SALAKATI          | D/C            | 0               | 115             | 0.0         | 3.0          | -3            |      |
| <b>ER-NER</b>                         |                |                              |                |                 |                 | <b>0.0</b>  | <b>16.0</b>  | <b>-16.0</b>  |      |
| <b>Import/Export of NER (With NR)</b> |                |                              |                |                 |                 |             |              |               |      |
| 32                                    | HVDC           | BISWANATH CHARIALI-AGRA      | -              | 0               | 701             | 0.0         | 16.4         | -16.4         |      |
| <b>NER-NR</b>                         |                |                              |                |                 |                 | <b>0.0</b>  | <b>16.4</b>  | <b>-16.4</b>  |      |
| <b>Import/Export of WR (With NR)</b>  |                |                              |                |                 |                 |             |              |               |      |
| 33                                    | HVDC           | CHAMPA-KURUKSHETRA           | D/C            | 0               | 0               | 0.0         | 23.2         | -23.2         |      |
| 34                                    |                | V'CHAL B/B                   | D/C            | 0               | 0               | 5.2         | 0.0          | 5.2           |      |
| 35                                    |                | APL -MHG                     | D/C            | 0               | 0               | 0.0         | 34.9         | -34.9         |      |
| 36                                    |                | GWALIOR-AGRA                 | D/C            | 0               | 0               | 0.0         | 53.4         | -53.4         |      |
| 37                                    | 765 kV         | PHAGI-GWALIOR                | D/C            | 0               | 0               | 0.0         | 25.0         | -25.0         |      |
| 38                                    |                | JABALPUR-ORAI                | D/C            | 0               | 0               | 0.0         | 29.0         | -29.0         |      |
| 39                                    |                | GWALIOR-ORAI                 | S/C            | 0               | 0               | 7.6         | 0.0          | 7.6           |      |
| 40                                    |                | SATNA-ORAI                   | S/C            | 0               | 0               | 0.0         | 35.2         | -35.2         |      |
| 41                                    |                | 400 kV                       | ZERDA-KANKROLI | S/C             | 0               | 0           | 0.7          | 0.0           | 0.7  |
| 42                                    |                |                              | ZERDA -BHINMAL | S/C             | 0               | 0           | 0.0          | 1.1           | -1.1 |
| 43                                    | V'CHAL -RIHAND |                              | S/C            | 0               | 0               | 20.6        | 0.0          | 20.6          |      |
| 44                                    | RAPP-SHUJALPUR |                              | D/C            | 0               | 0               | 0           | 2            | -2            |      |
| 45                                    | 220 kV         | BADOD-KOTA                   | S/C            | 0               | 0               | 0.0         | 1.3          | -1.2          |      |
| 46                                    |                | BADOD-MORAK                  | S/C            | 0               | 0               | 0.0         | 1.5          | -1.5          |      |
| 47                                    |                | MEHGAON-AURAIYA              | S/C            | 0               | 0               | 0.6         | 0.0          | 0.6           |      |
| 48                                    | 132kV          | MALANPUR-AURAIYA             | S/C            | 0               | 0               | 0.1         | 0.2          | -0.1          |      |
| 49                                    |                | GWALIOR-SAWAI MADHOPUR       | S/C            | 0               | 0               | 0.0         | 0.0          | 0.0           |      |
| <b>WR-NR</b>                          |                |                              |                |                 |                 | <b>34.8</b> | <b>206.8</b> | <b>-172.0</b> |      |
| <b>Import/Export of WR (With SR)</b>  |                |                              |                |                 |                 |             |              |               |      |
| 50                                    | HVDC           | BHADRAWATI B/B               | -              | 0               | 0               | 0.0         | 11.7         | -11.7         |      |
| 51                                    | LINK           | BARSUR-L.SILERU              | -              | 0               | 0               | 0.0         | 0.0          | 0.0           |      |
| 52                                    | 765 kV         | SOLAPUR-RAICHUR              | D/C            | 0               | 0               | 14.0        | 0.0          | 14.0          |      |
| 53                                    |                | WARDHA-NIZAMABAD             | D/C            | 0               | 0               | 0.0         | 14.5         | -14.5         |      |
| 54                                    | 400 kV         | KOLHAPUR-KUDGI               | D/C            | 0               | 0               | 13.0        | 0.0          | 13.0          |      |
| 55                                    | 220 kV         | KOLHAPUR-CHIKODI             | D/C            | 0               | 0               | 0.0         | 0.0          | 0.0           |      |
| 56                                    |                | PONDA-AMBEWADI               | S/C            | 0               | 0               | 0.0         | 0.0          | 0.0           |      |
| 57                                    |                | XELDEM-AMBEWADI              | S/C            | 0               | 0               | 0.0         | 0.0          | 0.0           |      |
| <b>WR-SR</b>                          |                |                              |                |                 |                 | <b>27.0</b> | <b>26.2</b>  | <b>0.8</b>    |      |
| <b>TRANSNATIONAL EXCHANGE</b>         |                |                              |                |                 |                 |             |              |               |      |
| 58                                    |                | BHUTAN                       |                |                 |                 |             |              | <b>33.2</b>   |      |
| 59                                    |                | NEPAL                        |                |                 |                 |             |              | <b>-4.4</b>   |      |
| 60                                    |                | BANGLADESH                   |                |                 |                 |             |              | <b>-15.8</b>  |      |