



**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: 27<sup>th</sup> July 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 26.07.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-जुलाई-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 26<sup>th</sup> July 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

27-Jul-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) | 52217          | 44894          | 39171          | 20289          | 2784          | 159355          |
| Peak Shortage (MW)  | 441            | 0              | 0              | 0              | 111           | 552             |
| Energy Met (MU)   | 1200           | 1065           | 882            | 443            | 51            | 3641            |
| Hydro Gen (MU)  | 328            | 16             | 38             | 126            | 30            | 538             |
| Wind Gen (MU)   | 41             | 177            | 152            | -----          | -----         | 370             |
| Solar Gen (MU)*   | 18.60          | 12.2           | 45.01          | 1.70           | 0.03          | 78              |
| Energy Shortage (MU)  | 11.3           | 0.0            | 0.0            | 0.0            | 1.6           | 12.9            |
| Maximum Demand Met during the day<br>(MW) & time (from NLDC SCADA)  | 54428<br>20:26 | 47297<br>09:22 | 38104<br>07:29 | 21086<br>19:53 | 2806<br>19:22 | 160631<br>19:58 |

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 | 0.039 | 0.00  | 0.30      | 5.49      | 5.79  | 69.98      | 24.24   |

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            | 10148                               | 0                                   | 220.4           | 133.3                | -1.4             | 66          | 0.0                  |
|             | Haryana           | 8343                                | 0                                   | 177.2           | 139.1                | -0.5             | 287         | 0.0                  |
|             | Rajasthan         | 9679                                | 0                                   | 218.3           | 61.2                 | -1.0             | 725         | 0.0                  |
|             | Delhi             | 5100                                | 0                                   | 109.3           | 92.2                 | -0.2             | 197         | 0.0                  |
|             | UP                | 18071                               | 0                                   | 357.5           | 160.8                | -0.4             | 450         | 1.2                  |
|             | Uttarakhand       | 1842                                | 0                                   | 39.5            | 14.3                 | -1.5             | 120         | 0.0                  |
|             | HP                | 1469                                | 5                                   | 29.5            | 0.0                  | -1.1             | 24          | 0.0                  |
|             | J&K               | 2124                                | 531                                 | 42.5            | 19.0                 | 3.1              | 602         | 10.1                 |
| WR          | Chandigarh        | 282                                 | 0                                   | 5.5             | 6.6                  | -1.1             | -15         | 0.0                  |
|             | Chhattisgarh      | 4031                                | 0                                   | 96.7            | 36.8                 | -1.0             | 219         | 0.0                  |
|             | Gujarat           | 15332                               | 0                                   | 338.8           | 70.0                 | -1.8             | 670         | 0.0                  |
|             | MP                | 8413                                | 0                                   | 185.2           | 85.8                 | -3.4             | 427         | 0.0                  |
|             | Maharashtra       | 18133                               | 0                                   | 400.5           | 91.5                 | -1.9             | 358         | 0.0                  |
|             | Goa               | 541                                 | 0                                   | 11.3            | 11.2                 | -0.5             | 32          | 0.0                  |
|             | DD                | 344                                 | 0                                   | 7.5             | 7.1                  | 0.4              | 58          | 0.0                  |
|             | DNH               | 814                                 | 0                                   | 19.0            | 19.1                 | -0.1             | 34          | 0.0                  |
| SR          | Essar steel       | 293                                 | 0                                   | 5.7             | 5.7                  | 0.0              | 270         | 0.0                  |
|             | Andhra Pradesh    | 7058                                | 0                                   | 158.7           | 18.8                 | -0.2             | 395         | 0.0                  |
|             | Telangana         | 8284                                | 0                                   | 174.1           | 97.9                 | -0.9             | 590         | 0.0                  |
|             | Karnataka         | 9612                                | 0                                   | 174.8           | 55.6                 | -0.7             | 504         | 0.0                  |
|             | Kerala            | 3344                                | 0                                   | 65.6            | 50.2                 | 2.6              | 330         | 0.0                  |
|             | Tamil Nadu        | 13998                               | 0                                   | 300.7           | 122.1                | 0.4              | 846         | 0.0                  |
|             | Pondy             | 395                                 | 0                                   | 8.4             | 8.6                  | -0.2             | 35          | 0.0                  |
|             | ER                | Bihar                               | 4960                                | 0               | 97.1                 | 91.1             | 1.3         | 250                  |
| DVC         |                   | 2857                                | 0                                   | 63.4            | -34.7                | -0.6             | 200         | 0.0                  |
| Jharkhand   |                   | 1099                                | 0                                   | 23.2            | 16.1                 | -1.2             | 50          | 0.0                  |
| Odisha      |                   | 4312                                | 0                                   | 86.2            | 34.9                 | 3.4              | 400         | 0.0                  |
| West Bengal |                   | 8235                                | 0                                   | 172.5           | 70.0                 | 3.6              | 230         | 0.0                  |
| Sikkim      |                   | 80                                  | 0                                   | 0.9             | 1.4                  | -0.5             | 10          | 0.0                  |
| NER         | Arunachal Pradesh | 126                                 | 2                                   | 2.3             | 2.8                  | -0.6             | 22          | 0.0                  |
|             | Assam             | 1778                                | 82                                  | 31.4            | 25.7                 | 0.2              | 199         | 1.5                  |
|             | Manipur           | 164                                 | 2                                   | 2.6             | 2.4                  | 0.2              | 16          | 0.0                  |
|             | Meghalaya         | 328                                 | 0                                   | 5.6             | -0.2                 | -0.2             | 65          | 0.0                  |
|             | Mizoram           | 86                                  | 1                                   | 1.7             | 1.3                  | 0.1              | 41          | 0.0                  |
|             | Nagaland          | 124                                 | 2                                   | 2.2             | 2.1                  | -0.4             | 29          | 0.0                  |
|             | Tripura           | 276                                 | 2                                   | 5.0             | 4.6                  | -0.1             | 41          | 0.0                  |

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

|               | Bhutan | Nepal  | Bangladesh |
|---------------|--------|--------|------------|
| Actual(MU)    | 43.5   | -3.0   | -25.8      |
| Day peak (MW) | 1858.1 | -142.0 | -1119.0    |

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

|              | NR    | WR     | SR   | ER    | NER   | TOTAL |
|--------------|-------|--------|------|-------|-------|-------|
| Schedule(MU) | 253.8 | -236.4 | 47.6 | -53.1 | -11.5 | 0.5   |
| Actual(MU)   | 232.7 | -253.0 | 59.5 | -29.9 | -12.5 | -3.2  |
| O/D/U/D(MU)  | -21.1 | -16.6  | 11.8 | 23.2  | -1.0  | -3.7  |

F. Generation Outage(MW)

|                | NR    | WR    | SR    | ER   | NER | Total |
|----------------|-------|-------|-------|------|-----|-------|
| Central Sector | 5189  | 16991 | 7502  | 2510 | 82  | 32274 |
| State Sector   | 9240  | 15989 | 9020  | 4230 | 50  | 38529 |
| Total          | 14429 | 32980 | 16522 | 6740 | 131 | 70802 |

G. Sourcewise generation (MU)

|                                     | NR  | WR   | SR  | ER  | NER | All India |
|-------------------------------------|-----|------|-----|-----|-----|-----------|
| Coal                                | 505 | 1036 | 438 | 364 | 10  | 2353      |
| Lignite                             | 17  | 14   | 43  | 0   | 0   | 74        |
| Hydro                               | 328 | 16   | 38  | 126 | 30  | 538       |
| Nuclear                             | 27  | 31   | 60  | 0   | 0   | 118       |
| Gas, Naptha & Diesel                | 25  | 44   | 14  | 0   | 29  | 112       |
| RES (Wind, Solar, Biomass & Others) | 75  | 199  | 239 | 2   | 0   | 514       |
| Total                               | 978 | 1339 | 832 | 492 | 69  | 3710      |

|   |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|
| Share of RES in total generation (%)                                      | 7.70  | 14.83 | 28.67 | 0.35  | 0.04  | 13.86 |
| Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%) | 44.04 | 18.33 | 40.46 | 26.01 | 43.46 | 31.55 |

H. Diversity Factor

|                                   |       |
|-----------------------------------|-------|
| All India Demand Diversity Factor | 1.019 |
|-----------------------------------|-------|

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 :                            | 27-Jul-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     | 168             | 270             | 0.0           | 1.2         | -1.2   |               |
| 2                                     |               | SASARAM-FATEHPUR         | S/C     | 240             | 177             | 2.3           | 0.0         | 2.3  |               |
| 3                                     |               | GAYA-BALIA               | S/C     | 0               | 295             | 0.0           | 4.9         | -4.9   |               |
| 4                                     | HVDC          | ALIPURDUAR-AGRA          | -       | 0               | 1601            | 0.0           | 38.7        | -38.7  |               |
| 5                                     |               | PUSAULI B/B              | S/C     | 2               | 247             | 0.0           | 5.8         | -5.8   |               |
| 6                                     | 400 kV        | PUSAULI-VARANASI         | S/C     | 0               | 225             | 0.0           | 4.6         | -4.6   |               |
| 7                                     |               | PUSAULI -ALLAHABAD       | S/C     | 39              | 83              | 0.0           | 1.0         | -1.0   |               |
| 8                                     |               | MUZAFFARPUR-GORAKHPUR    | D/C     | 0               | 589             | 0.0           | 7.6         | -7.6   |               |
| 9                                     |               | PATNA-BALIA              | Q/C     | 0               | 517             | 0.0           | 6.8         | -6.8   |               |
| 10                                    |               | BIHARSHARIFF-BALIA       | D/C     | 0               | 216             | 0.0           | 3.2         | -3.2   |               |
| 11                                    |               | MOTIHARI-GORAKHPUR       | D/C     | 0               | 273             | 0.0           | 4.0         | -4.0   |               |
| 12                                    |               | BIHARSHARIFF-VARANASI    | D/C     | 202             | 57              | 2.1           | 0.0         | 2.1  |               |
| 13                                    | 220 kV        | PUSAULI-SAHUPURI         | S/C     | 0               | 140             | 0.0           | 2.6         | -2.6   |               |
| 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>4.8</b>  | <b>80.4</b>                                    | <b>-75.6</b>  |
| <b>Import/Export of ER (With WR)</b>  |               |                          |         |                 |                 |               |             |  |               |
| 18                                    | 765 kV        | JHARSUGUDA-DHARAMJAIGARH | Q/C     | 1989            | 0               | 34.9          | 0.0         | 34.9   |               |
| 19                                    |               | NEW RANCHI-DHARAMJAIGARH | D/C     | 1307            | 0               | 23.4          | 0.0         | 23.4   |               |
| 20                                    |               | JHARSUGUDA-DURG          | D/C     | 338             | 1               | 5.8           | 0.0         | 5.8  |               |
| 21                                    | 400 kV        | JHARSUGUDA-RAIGARH       | Q/C     | 329             | 0               | 4.8           | 0.0         | 4.8  |               |
| 22                                    |               | RANCHI-SIPAT             | D/C     | 479             | 0               | 9.4           | 0.0         | 9.4  |               |
| 23                                    | 220 kV        | BUDHIPADAR-RAIGARH       | S/C     | 22              | 62              | 0.0           | 0.6         | -0.6   |               |
| 24                                    |               | BUDHIPADAR-KORBA         | D/C     | 241             | 0               | 2.5           | 0.0         | 2.5  |               |
|                                       |               |                          |         |                 |                 | <b>ER-WR</b>  | <b>80.9</b> | <b>0.6</b>                                     | <b>80.3</b>   |
| <b>Import/Export of ER (With SR)</b>  |               |                          |         |                 |                 |               |             |  |               |
| 25                                    | 765 kV        | ANGUL-SRIKAKULAM         | D/C     | 0.0             | 1659.0          | 0.0           | 23.5        | -23.5  |               |
| 26                                    | HVDC          | JEYPORE-GAZUWAKA B/B     | D/C     | 0.0             | 432.0           | 0.0           | 10.0        | -10.0  |               |
| 27                                    | LINK          | TALCHER-KOLAR BIPOLE     | D/C     | 0.0             | 1485.0          | 0.0           | 25.3        | -25.3  |               |
| 28                                    | 400 kV        | TALCHER-I/C              | D/C     | 250.0           | 343.0           | 2.7           | 0.0         | 2.7  |               |
| 29                                    | 220 kV        | BALIMELA-UPPER-SILERRU   | S/C     | 1.0             | 0.0             | 0.0           | 0.0         | 0.0  |               |
|                                       |               |                          |         |                 |                 | <b>ER-SR</b>  | <b>0.0</b>  | <b>58.7</b>                                    | <b>-58.7</b>  |
| <b>Import/Export of ER (With NER)</b> |               |                          |         |                 |                 |               |             |  |               |
| 30                                    | 400 kV        | BINAGURI-BONGAIGAON      | D/C     | 0               | 650             | 0.0           | 9.6         | -10  |               |
| 31                                    |               | ALIPURDUAR-BONGAIGAON    | D/C     | 334             | 116             | 3.4           | 0.0         | 3  |               |
| 32                                    | 220 kV        | ALIPURDUAR-SALAKATI      | D/C     | 0               | 86              | 0.0           | 0.9         | -1   |               |
|                                       |               |                          |         |                 |                 | <b>ER-NER</b> | <b>3.4</b>  | <b>10.5</b>                                    | <b>-7.1</b>   |
| <b>Import/Export of NER (With NR)</b> |               |                          |         |                 |                 |               |             |  |               |
| 33                                    | HVDC          | BISWANATH CHARIALI-AGRA  | -       | 0               | 904             | 0.0           | 21.8        | -21.8  |               |
|                                       |               |                          |         |                 |                 | <b>NER-NR</b> | <b>0.0</b>  | <b>21.8</b>                                    | <b>-21.8</b>  |
| <b>Import/Export of WR (With NR)</b>  |               |                          |         |                 |                 |               |             |  |               |
| 34                                    | HVDC          | CHAMPA-KURUKSHETRA       | D/C     | 0               | 1001            | 0.0           | 13.7        | -13.7  |               |
| 35                                    |               | V'CHAL B/B               | D/C     | 452             | 0               | 12.2          | 0.0         | 12.2   |               |
| 36                                    |               | APL -MHG                 | D/C     | 0               | 1453            | 0.0           | 36.3        | -36.3  |               |
| 37                                    | 765 kV        | GWALIOR-AGRA             | D/C     | 0               | 2183            | 0.0           | 40.4        | -40.4  |               |
| 38                                    |               | PHAGI-GWALIOR            | D/C     | 0               | 1319            | 0.0           | 22.8        | -22.8  |               |
| 39                                    |               | JABALPUR-ORAI            | D/C     | 0               | 926             | 0.0           | 35.0        | -35.0  |               |
| 40                                    |               | GWALIOR-ORAI             | S/C     | 374             | 0               | 7.0           | 0.0         | 7.0  |               |
| 41                                    |               | SATNA-ORAI               | S/C     | 0               | 1309            | 0.0           | 26.6        | -26.6  |               |
| 42                                    |               | CHITTORGARH-BANASKANTHA  | D/C     | 0               | 729             | 0.0           | 5.9         | 5.9  |               |
| 43                                    |               | ZERDA-KANKROLI           | S/C     | 107             | 92              | 0.5           | 0.4         | 0.1  |               |
| 44                                    | 400 kV        | ZERDA -BHINMAL           | S/C     | 240             | 200             | 2.0           | 1.2         | 0.8  |               |
| 45                                    |               | V'CHAL -RIHAND           | S/C     | 967             | 0               | 22.2          | 0.0         | 22.2   |               |
| 46                                    | 220 kV        | RAPP-SHUJALPUR           | D/C     | 23              | 370             | 0             | 3           | -3   |               |
| 47                                    |               | BHANPURA-RANPUR          | S/C     | 6               | 62              | 0.0           | 0.8         | -0.8   |               |
| 48                                    |               | BHANPURA-MORAK           | S/C     | 0               | 130             | 0.0           | 2.4         | -2.4   |               |
| 49                                    |               | MEHGAON-AURAIYA          | S/C     | 61              | 15              | 0.4           | 0.0         | 0.4  |               |
| 50                                    | 132kV         | MALANPUR-AURAIYA         | S/C     | 25              | 35              | 0.1           | 0.3         | -0.3   |               |
| 51                                    |               | GWALIOR-SAWAI MADHOPUR   | S/C     | 0               | 0               | 0.0           | 0.0         | 0.0  |               |
|                                       |               |                          |         |                 |                 | <b>WR-NR</b>  | <b>44.5</b> | <b>188.2</b>                                   | <b>-132.0</b> |
| <b>Import/Export of WR (With SR)</b>  |               |                          |         |                 |                 |               |             |  |               |
| 52                                    | HVDC          | BHADRAWATI B/B           | -       | 0               | 211             | 0.0           | 5.1         | -5.1   |               |
| 53                                    | LINK          | BARSUR-L.SILERU          | -       | 0               | 0               | 0.0           | 0.0         | 0.0  |               |
| 54                                    | 765 kV        | SOLAPUR-RAICHUR          | D/C     | 775             | 1335            | 0.0           | 6.7         | -6.7   |               |
| 55                                    |               | WARDHA-NIZAMABAD         | D/C     | 0               | 2046            | 0.0           | 29.7        | -29.7  |               |
| 56                                    | 400 kV        | KOLHAPUR-KUDGI           | D/C     | 1091            | 0               | 15.1          | 0.0         | 15.1   |               |
| 57                                    | 220 kV        | KOLHAPUR-CHIKODI         | D/C     | 0               | 0               | 0.0           | 0.0         | 0.0  |               |
| 58                                    |               | PONDA-AMBEWADI           | S/C     | 0               | 66              | 0.0           | 1.3         | -1.3   |               |
| 59                                    |               | XELDEM-AMBEWADI          | S/C     | 0               | 39              | 0.7           | 0.0         | 0.7  |               |
|                                       |               |                          |         |                 |                 | <b>WR-SR</b>  | <b>15.8</b> | <b>42.7</b>                                    | <b>-26.9</b>  |
| <b>TRANSNATIONAL EXCHANGE</b>         |               |                          |         |                 |                 |               |             |  |               |
| 60                                    |               | BHUTAN                   |         |                 |                 |               |             | <b>43.5</b>                                    |               |
| 61                                    |               | NEPAL                    |         |                 |                 |               |             | <b>-3.0</b>                                    |               |
| 62                                    |               | BANGLADESH               |         |                 |                 |               |             | <b>-25.8</b>                                   |               |