



**National Load Despatch Centre**  
राष्ट्रीय भार प्रेषण केंद्र  
**POWER SYSTEM OPERATION CORPORATION LIMITED**  
पाँवर 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: 24<sup>th</sup> July 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 23.07.2018.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-जुलाई-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 23<sup>rd</sup> July 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

24-Jul-18

A. Maximum Demand

|   | NR             | WR             | SR             | ER             | NER           | Total           |
|---|----------------|----------------|----------------|----------------|---------------|-----------------|
| Demand Met during Evening Peak hrs(MW)<br>(at 2000 hrs: from RLDCs) | 51541          | 41153          | 40783          | 19392          | 2464          | 155333          |
| Peak Shortage (MW)  | 1205           | 0              | 0              | 200            | 269           | 1674            |
| Energy Met (MU)   | 1156           | 939            | 927            | 410            | 49            | 3482            |
| Hydro Gen (MU)  | 328            | 21             | 108            | 97             | 29            | 583             |
| Wind Gen (MU)   | 21             | 143            | 217            | -----          | -----         | 381             |
| Solar Gen (MU)*   | 11.80          | 6.06           | 43.70          | 0.43           | 0.01          | 62              |
| Energy Shortage (MU)  | 9.8            | 0.3            | 0.0            | 0.6            | 2.4           | 13.1            |
| Maximum Demand Met during the day<br>(MW) & time (from NLDC SCADA)  | 53918<br>22:42 | 42708<br>19:50 | 41775<br>07:38 | 20514<br>21:45 | 2630<br>19:37 | 159479<br>19:59 |

B. Frequency Profile (%)

| Region    | FVI   | <49.7 | 49.7-49.8 | 49.8-49.9 | <49.9 | 49.9-50.05 | > 50.05 |
|-----------|-------|-------|-----------|-----------|-------|------------|---------|
| All India | 0.050 | 0.00  | 1.66      | 11.12     | 12.78 | 76.37      | 10.86   |

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            | 10301                               | 0                                   | 228.5           | 142.4                | -0.8             | 260         | 0.0                  |     |
|             | Haryana           | 8078                                | 0                                   | 163.6           | 134.0                | 1.3              | 176         | 0.2                  |     |
|             | Rajasthan         | 7723                                | 0                                   | 165.6           | 60.0                 | 1.7              | 326         | 0.0                  |     |
|             | Delhi             | 5556                                | 0                                   | 112.5           | 92.0                 | -1.8             | 74          | 0.0                  |     |
|             | UP                | 17974                               | 0                                   | 372.7           | 183.2                | 0.9              | 355         | 0.4                  |     |
|             | Uttarakhand       | 1999                                | 35                                  | 43.2            | 24.8                 | 0.9              | 235         | 0.3                  |     |
|             | HP                | 1326                                | 0                                   | 26.8            | -4.2                 | 3.7              | 273         | 0.0                  |     |
|             | J&K               | 1881                                | 470                                 | 37.1            | 17.2                 | -5.7             | 5           | 8.9                  |     |
|             | Chandigarh        | 313                                 | 0                                   | 5.7             | 6.1                  | -0.4             | 24          | 0.0                  |     |
|             | WR                | Chhattisgarh                        | 3132                                | 0               | 69.3                 | 9.1              | -1.6        | 151                  | 0.0 |
| Gujarat     |                   | 13146                               | 0                                   | 281.0           | 60.3                 | 3.6              | 550         | 0.0                  |     |
| MP          |                   | 6764                                | 0                                   | 151.2           | 69.5                 | -0.2             | 292         | 0.0                  |     |
| Maharashtra |                   | 18062                               | 0                                   | 391.3           | 87.6                 | 3.7              | 652         | 0.0                  |     |
| Goa         |                   | 486                                 | 0                                   | 9.6             | 8.4                  | 0.5              | 55          | 0.3                  |     |
| DD          |                   | 326                                 | 0                                   | 7.1             | 6.4                  | 0.7              | 65          | 0.0                  |     |
| DNH         |                   | 747                                 | 0                                   | 17.5            | 16.7                 | 0.8              | 76          | 0.0                  |     |
| Essar steel |                   | 585                                 | 0                                   | 12.0            | 12.2                 | -0.2             | 230         | 0.0                  |     |
| SR          |                   | Andhra Pradesh                      | 7800                                | 0               | 174.6                | 18.4             | 1.9         | 606                  | 0.0 |
|             |                   | Telangana                           | 8707                                | 0               | 186.8                | 84.0             | -0.5        | 555                  | 0.0 |
|             | Karnataka         | 8998                                | 0                                   | 176.5           | 53.6                 | 1.2              | 608         | 0.0                  |     |
|             | Kerala            | 3233                                | 0                                   | 62.3            | 28.9                 | 0.6              | 284         | 0.0                  |     |
|             | Tamil Nadu        | 14822                               | 0                                   | 319.6           | 100.4                | -0.3             | 424         | 0.0                  |     |
|             | Pondy             | 360                                 | 0                                   | 7.7             | 7.7                  | 0.0              | 61          | 0.0                  |     |
|             | ER                | Bihar                               | 4775                                | 0               | 83.2                 | 82.0             | 1.1         | 160                  | 0.0 |
|             |                   | DVC                                 | 3002                                | 0               | 67.2                 | -30.8            | -2.1        | 80                   | 0.0 |
|             |                   | Jharkhand                           | 1079                                | 0               | 20.8                 | 16.7             | -1.2        | 50                   | 0.0 |
|             |                   | Odisha                              | 4382                                | 0               | 82.7                 | 41.0             | 5.6         | 650                  | 0.6 |
| West Bengal |                   | 7906                                | 0                                   | 155.1           | 40.3                 | 3.0              | 480         | 0.0                  |     |
| Sikkim      |                   | 92                                  | 0                                   | 1.2             | 1.3                  | -0.2             | 20          | 0.0                  |     |
| NER         | Arunachal Pradesh | 99                                  | 5                                   | 2.2             | 3.0                  | -0.9             | 2           | 0.0                  |     |
|             | Assam             | 1542                                | 215                                 | 31.0            | 26.0                 | 0.7              | 189         | 2.3                  |     |
|             | Manipur           | 162                                 | 4                                   | 2.3             | 2.5                  | -0.2             | 14          | 0.0                  |     |
|             | Meghalaya         | 294                                 | 2                                   | 5.8             | 1.1                  | -0.4             | 29          | 0.0                  |     |
|             | Mizoram           | 81                                  | 2                                   | 1.5             | 1.0                  | -0.1             | 1           | 0.0                  |     |
|             | Nagaland          | 115                                 | 1                                   | 2.1             | 2.3                  | -0.6             | 4           | 0.0                  |     |
|             | Tripura           | 259                                 | 2                                   | 4.5             | 4.3                  | -0.9             | 34          | 0.0                  |     |

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

|               | Bhutan | Nepal  | Bangladesh |
|---------------|--------|--------|------------|
| Actual(MU)    | 33.5   | -7.8   | -14.1      |
| Day peak (MW) | 1521.8 | -407.1 | -642.4     |

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

|              | NR    | WR     | SR   | ER    | NER  | TOTAL |
|--------------|-------|--------|------|-------|------|-------|
| Schedule(MU) | 269.5 | -248.4 | 43.7 | -66.6 | 1.6  | -0.2  |
| Actual(MU)   | 272.5 | -256.9 | 45.3 | -59.0 | -4.6 | -2.6  |
| O/D/U/D(MU)  | 3.0   | -8.5   | 1.6  | 7.6   | -6.2 | -2.5  |

F. Generation Outage(MW)

|                | NR    | WR    | SR    | ER   | NER | Total |
|----------------|-------|-------|-------|------|-----|-------|
| Central Sector | 4347  | 16607 | 9292  | 2035 | 77  | 32358 |
| State Sector   | 10125 | 17843 | 10790 | 5245 | 50  | 44053 |
| Total          | 14472 | 34450 | 20082 | 7280 | 127 | 76411 |

G. Sourcewise generation (MU)

|                                     | NR  | WR   | SR  | ER  | NER | All India |
|-------------------------------------|-----|------|-----|-----|-----|-----------|
| Thermal (Coal & Lignite)            | 485 | 971  | 412 | 392 | 8   | 2269      |
| Hydro                               | 328 | 22   | 109 | 97  | 29  | 585       |
| Nuclear                             | 27  | 30   | 52  | 0   | 0   | 109       |
| Gas, Naptha & Diesel                | 20  | 39   | 25  | 0   | 22  | 106       |
| RES (Wind, Solar, Biomass & Others) | 46  | 149  | 295 | 1   | 0   | 491       |
| Total                               | 907 | 1212 | 893 | 490 | 58  | 3560      |

|   |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|
| Share of RES in total generation (%)                                      | 5.06  | 12.33 | 33.06 | 0.11  | 0.06  | 13.80 |
| Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%) | 44.30 | 16.59 | 51.10 | 19.88 | 49.13 | 33.29 |

H. Diversity Factor

|                                   |       |
|-----------------------------------|-------|
| All India Demand Diversity Factor | 1.013 |
|-----------------------------------|-------|

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 : 24-Jul-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               | 681             | 0.0         | 12.0         | -12.0         |       |
| 2                                     |                  | SASARAM-FATEHPUR             | S/C                | 135             | 147             | 0.0         | 0.8          | -0.8          |       |
| 3                                     |                  | GAYA-BALIA                   | S/C                | 0               | 428             | 0.0         | 8.8          | -8.8          |       |
| 4                                     |                  | ALIPURDUAR-AGRA              | -                  | 0               | 590             | 0.0         | 11.3         | -11.3         |       |
| 5                                     | 400 kV           | PUSAULI B/B                  | S/C                | 0               | 147             | 0.0         | 3.6          | -3.6          |       |
| 6                                     |                  | PUSAULI-VARANASI             | S/C                | 0               | 117             | 0.0         | 0.0          | 0.0           |       |
| 7                                     |                  | PUSAULI -ALLAHABAD           | S/C                | 0               | 106             | 0.0         | 0.0          | 0.0           |       |
| 8                                     |                  | MUZAFFARPUR-GORAKHPUR        | D/C                | 0               | 848             | 0.0         | 16.6         | -16.6         |       |
| 9                                     |                  | PATNA-BALIA                  | Q/C                | 0               | 1011            | 0.0         | 17.8         | -17.8         |       |
| 10                                    |                  | BIHARSHARIFF-BALIA           | D/C                | 0               | 481             | 0.0         | 8.8          | -8.8          |       |
| 11                                    |                  | MOTIHARI-GORAKHPUR           | D/C                | 299             | 2               | 4.0         | 0.0          | 4.0           |       |
| 12                                    |                  | BIHARSHARIFF-VARANASI        | D/C                | 920             | 0               | 0.0         | 5.2          | -5.2          |       |
| 13                                    |                  | 220 kV                       | PUSAULI-SAHUPURI   | S/C             | 0               | 155         | 0.0          | 3.2           | -3.2  |
| 14                                    |                  |                              | SONE NAGAR-RIHAND  | S/C             | 0               | 0           | 0.0          | 0.0           | 0.0   |
| 15                                    | 132 kV           |                              | GARWAH-RIHAND      | S/C             | 35              | 0           | 0.3          | 0.0           | 0.3   |
| 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>4.4</b>  | <b>88.1</b>  | <b>-83.7</b>  |       |
| <b>Import/Export of ER (With WR)</b>  |                  |                              |                    |                 |                 |             |              |               |       |
| 18                                    | 765 kV           | JHARSUGUDA-DHARAMJAIGARH S/C | D/C                | 978             | 2               | 19.2        | 0.0          | 19.2          |       |
| 19                                    |                  | NEW RANCHI-DHARAMJAIGARH     | D/C                | 837             | 0               | 13.0        | 0.0          | 13.0          |       |
| 20                                    | 400 kV           | JHARSUGUDA-RAIGARH           | Q/C                | 1039            | 0               | 20.5        | 0.0          | 20.5          |       |
| 21                                    |                  | RANCHI-SIPAT                 | D/C                | 394             | 0               | 5.4         | 0.0          | 5.4           |       |
| 22                                    |                  | 220 kV                       | BUDHIPADAR-RAIGARH | S/C             | 147             | 0           | 2.2          | 0.0           | 2.2   |
| 23                                    | BUDHIPADAR-KORBA |                              | D/C                | 173             | 0               | 3.3         | 0.0          | 3.3           |       |
| <b>ER-WR</b>                          |                  |                              |                    |                 |                 | <b>63.7</b> | <b>0.0</b>   | <b>63.7</b>   |       |
| <b>Import/Export of ER (With SR)</b>  |                  |                              |                    |                 |                 |             |              |               |       |
| 24                                    | 765 kV           | ANGUL-SRIKAKULAM             | D/C                | 0.0             | 1031.9          | 0.0         | 16.6         | -16.6         |       |
| 25                                    | HVDC             | JEYPORE-GAZUWAKA B/B         | D/C                | 0.0             | 425.0           | 0.0         | 9.7          | -9.7          |       |
| 26                                    | LINK             | TALCHER-KOLAR BIPOLE         | D/C                | 0.0             | 1974.5          | 0.0         | 26.2         | -26.2         |       |
| 27                                    | 400 kV           | TALCHER-I/C                  | D/C                | 824.5           | 0.6             | 0.0         | 10.9         | -10.9         |       |
| 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>52.6</b>  | <b>-52.6</b>  |       |
| <b>Import/Export of ER (With NER)</b> |                  |                              |                    |                 |                 |             |              |               |       |
| 29                                    | 400 kV           | BINAGURI-BONGAIGAON          | D/C                | 0               | 429             | 0.0         | 5.8          | -6            |       |
| 30                                    |                  | ALIPURDUAR-BONGAIGAON        | D/C                | 108             | 193             | 0.0         | 1.1          | -1            |       |
| 31                                    | 220 kV           | ALIPURDUAR-SALAKATI          | D/C                | 0               | 148             | 0.0         | 1.9          | -2            |       |
| <b>ER-NER</b>                         |                  |                              |                    |                 |                 | <b>0.0</b>  | <b>8.8</b>   | <b>-8.8</b>   |       |
| <b>Import/Export of NER (With NR)</b> |                  |                              |                    |                 |                 |             |              |               |       |
| 32                                    | HVDC             | BISWANATH CHARIALI-AGRA      | -                  | 0               | 702             | 0.0         | 14.9         | -14.9         |       |
| <b>NER-NR</b>                         |                  |                              |                    |                 |                 | <b>0.0</b>  | <b>14.9</b>  | <b>-14.9</b>  |       |
| <b>Import/Export of WR (With NR)</b>  |                  |                              |                    |                 |                 |             |              |               |       |
| 33                                    | HVDC             | CHAMPA-KURUKSHETRA           | D/C                | 0               | 2008            | 0.0         | 0.0          | 0.0           |       |
| 34                                    |                  | V'CHAL B/B                   | D/C                | 241             | 2               | 0.0         | 0.0          | 0.0           |       |
| 35                                    |                  | APL -MHG                     | D/C                | 0               | 1164            | 0.0         | 22.9         | -22.9         |       |
| 36                                    |                  | 765 kV                       | GWALIOR-AGRA       | D/C             | 0               | 1351        | 0.0          | 52.9          | -52.9 |
| 37                                    | PHAGI-GWALIOR    |                              | D/C                | 0               | 1493            | 0.0         | 29.6         | -29.6         |       |
| 38                                    | JABALPUR-ORAI    |                              | D/C                | 0               | 675             | 0.0         | 26.4         | -26.4         |       |
| 39                                    | GWALIOR-ORAI     |                              | S/C                | 369             | 0               | 7.8         | 0.0          | 7.8           |       |
| 40                                    | SATNA-ORAI       |                              | S/C                | 0               | 1753            | 0.0         | 39.2         | -39.2         |       |
| 41                                    | 400 kV           |                              | ZERDA-KANKROLI     | S/C             | 48              | 259         | 0.0          | 1.9           | -1.9  |
| 42                                    |                  |                              | ZERDA -BHINMAL     | S/C             | 70              | 264         | 0.0          | 1.8           | -1.8  |
| 43                                    |                  |                              | V'CHAL -RIHAND     | S/C             | 968             | 0           | 20.7         | 0.0           | 20.7  |
| 44                                    |                  |                              | RAPP-SHUJALPUR     | D/C             | 0               | 449         | 0            | 3             | -3    |
| 45                                    |                  |                              | 220 kV             | BADOD-KOTA      | S/C             | 0           | 71           | 0.0           | 1.3   |
| 46                                    | BADOD-MORAK      | S/C                          |                    | 0               | 60              | 0.0         | 1.9          | -1.9          |       |
| 47                                    | MEHGAON-AURAIYA  | S/C                          |                    | 21              | 37              | 0.0         | 0.3          | -0.3          |       |
| 48                                    | 132kV            | MALANPUR-AURAIYA             | S/C                | 0               | 56              | 0.0         | 0.9          | -0.9          |       |
| 49                                    |                  | GWALIOR-SAWAI MADHOPUR       | S/C                | 0               | 0               | 0.0         | 0.0          | 0.0           |       |
| <b>WR-NR</b>                          |                  |                              |                    |                 |                 | <b>28.6</b> | <b>182.2</b> | <b>-153.6</b> |       |
| <b>Import/Export of WR (With SR)</b>  |                  |                              |                    |                 |                 |             |              |               |       |
| 50                                    | HVDC             | BHADRAWATI B/B               | -                  | 287             | 0               | 0.0         | 0.0          | 0.0           |       |
| 51                                    | LINK             | BARSUR-L.SILERU              | -                  | 0               | 0               | 0.0         | 0.0          | 0.0           |       |
| 52                                    | 765 kV           | SOLAPUR-RAICHUR              | D/C                | 687             | 784             | 0.0         | 2.0          | -2.0          |       |
| 53                                    |                  | WARDHA-NIZAMABAD             | D/C                | 0               | 1840            | 0.0         | 28.2         | -28.2         |       |
| 54                                    | 400 kV           | KOLHAPUR-KUDGI               | D/C                | 664             | 0               | 7.1         | 0.0          | 7.1           |       |
| 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>7.1</b>  | <b>30.2</b>  | <b>-23.0</b>  |       |
| <b>TRANSNATIONAL EXCHANGE</b>         |                  |                              |                    |                 |                 |             |              |               |       |
| 58                                    |                  | BHUTAN                       |                    |                 |                 |             |              | <b>33.5</b>   |       |
| 59                                    |                  | NEPAL                        |                    |                 |                 |             |              | <b>-7.8</b>   |       |
| 60                                    |                  | BANGLADESH                   |                    |                 |                 |             |              | <b>-14.1</b>  |       |