

Report for previous day

Date of Reporting

19-Oct-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 1900 hrs; from RLDCs) | 46959          | 47944          | 37804          | 21222          | 2735          | 156664          |
| Peak Shortage (MW)  | 460            | 0              | 0              | 0              | 199           | 659             |
| Energy Met (MU)   | 986            | 1121           | 833            | 430            | 49            | 3419            |
| Hydro Gen (MU)  | 158            | 59             | 133            | 98             | 12            | 460             |
| Wind Gen (MU)   | 8              | 24             | 26             | -----          | -----         | 58              |
| Solar Gen (MU)*   | 29.30          | 19.7           | 61.52          | 2.02           | 0.02          | 113             |
| Energy Shortage (MU)  | 11.8           | 0.0            | 0.0            | 0.0            | 2.6           | 14.4            |
| Maximum Demand Met during the day<br>(MW) & time (from NLDC SCADA)  | 47463<br>18:53 | 49481<br>11:27 | 39797<br>18:34 | 21776<br>19:07 | 2849<br>17:39 | 159750<br>18:53 |

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 | 0.024 | 0.00  | 0.00      | 0.87      | 0.87  | 80.91      | 18.22   |

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            | 5892                                | 0                                   | 118.8           | 60.7                 | -2.1             | 59          | 0.0                  |
|        | Haryana           | 7001                                | 0                                   | 145.9           | 116.5                | -1.0             | 309         | 0.0                  |
|        | Rajasthan         | 10041                               | 0                                   | 213.0           | 64.8                 | -4.2             | 161         | 0.0                  |
|        | Delhi             | 4341                                | 0                                   | 86.4            | 70.6                 | -0.4             | 160         | 0.0                  |
|        | UP                | 16308                               | 0                                   | 323.6           | 134.5                | 1.5              | 660         | 4.4                  |
|        | Uttarakhand       | 1763                                | 0                                   | 35.7            | 19.7                 | -0.1             | 91          | 0.0                  |
|        | HP                | 1479                                | 0                                   | 28.1            | 15.0                 | 0.2              | 222         | 0.0                  |
|        | J&K               | 2104                                | 526                                 | 30.5            | 24.8                 | -2.7             | 115         | 7.4                  |
| WR     | Chandigarh        | 214                                 | 0                                   | 4.1             | 4.1                  | 0.1              | 21          | 0.0                  |
|        | Chhattisgarh      | 3755                                | 0                                   | 83.1            | 31.8                 | -0.8             | 355         | 0.0                  |
|        | Gujarat           | 16499                               | 0                                   | 364.7           | 70.1                 | 5.7              | 512         | 0.0                  |
|        | MP                | 8706                                | 0                                   | 187.1           | 120.2                | -2.3             | 400         | 0.0                  |
|        | Maharashtra       | 20217                               | 0                                   | 441.8           | 170.5                | -4.7             | 452         | 0.0                  |
|        | Goa               | 541                                 | 0                                   | 12.8            | 11.8                 | 0.4              | 50          | 0.0                  |
|        | DD                | 343                                 | 0                                   | 7.6             | 7.1                  | 0.5              | 53          | 0.0                  |
|        | DNH               | 776                                 | 0                                   | 18.3            | 18.5                 | -0.2             | 31          | 0.0                  |
| SR     | Essar steel       | 308                                 | 0                                   | 5.7             | 5.6                  | 0.1              | 312         | 0.0                  |
|        | Andhra Pradesh    | 7244                                | 0                                   | 154.9           | 56.7                 | 0.0              | 495         | 0.0                  |
|        | Telangana         | 7754                                | 0                                   | 163.4           | 33.9                 | 0.0              | 354         | 0.0                  |
|        | Karnataka         | 8461                                | 0                                   | 162.5           | 37.5                 | -1.9             | 492         | 0.0                  |
|        | Kerala            | 3362                                | 0                                   | 67.9            | 49.9                 | 1.3              | 196         | 0.0                  |
|        | Tamil Nadu        | 13655                               | 0                                   | 276.9           | 157.5                | 0.3              | 499         | 0.0                  |
|        | Pondy             | 378                                 | 0                                   | 7.5             | 7.9                  | -0.3             | 26          | 0.0                  |
|        | Bihar             | 5255                                | 0                                   | 95.5            | 91.7                 | -0.7             | 30          | 0.0                  |
| ER     | DVC               | 3046                                | 0                                   | 65.0            | -17.9                | -0.5             | 240         | 0.0                  |
|        | Jharkhand         | 1313                                | 0                                   | 25.5            | 16.9                 | -0.6             | 20          | 0.0                  |
|        | Odisha            | 4114                                | 0                                   | 81.7            | 12.8                 | 7.0              | 510         | 0.0                  |
|        | West Bengal       | 8446                                | 0                                   | 161.1           | 49.1                 | 3.5              | 590         | 0.0                  |
|        | Sikkim            | 95                                  | 0                                   | 0.9             | 1.4                  | -0.5             | 25          | 0.0                  |
| NER    | Arunachal Pradesh | 129                                 | 1                                   | 2.1             | 2.1                  | -0.3             | 33          | 0.0                  |
|        | Assam             | 1714                                | 110                                 | 30.1            | 23.0                 | 1.4              | 192         | 2.5                  |
|        | Manipur           | 165                                 | 2                                   | 2.6             | 2.3                  | 0.2              | 33          | 0.0                  |
|        | Meghalaya         | 329                                 | 0                                   | 5.4             | 1.8                  | 0.3              | 66          | 0.0                  |
|        | Mizoram           | 95                                  | 1                                   | 1.7             | 0.5                  | 0.9              | 67          | 0.0                  |
|        | Nagaland          | 126                                 | 2                                   | 1.8             | 2.1                  | -0.6             | 32          | 0.0                  |
|        | Tripura           | 292                                 | 1                                   | 4.9             | 3.4                  | 0.3              | 85          | 0.0                  |

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

|               | Bhutan | Nepal  | Bangladesh |
|---------------|--------|--------|------------|
| Actual(MU)    | 24.8   | -2.6   | -17.0      |
| Day peak (MW) | 1235.3 | -264.5 | -1109.0    |

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

|              | NR    | WR     | SR   | ER    | NER  | TOTAL |
|--------------|-------|--------|------|-------|------|-------|
| Schedule(MU) | 240.2 | -226.0 | 53.9 | -73.6 | 6.0  | 0.5   |
| Actual(MU)   | 231.1 | -221.9 | 52.7 | -72.6 | 11.1 | 0.3   |
| O/D/U/D(MU)  | -9.1  | 4.1    | -1.2 | 0.9   | 5.2  | -0.2  |

F. Generation Outage(MW)

|                | NR    | WR    | SR    | ER   | NER | Total |
|----------------|-------|-------|-------|------|-----|-------|
| Central Sector | 3284  | 16305 | 7652  | 2495 | 910 | 30646 |
| State Sector   | 8761  | 17415 | 8573  | 5340 | 11  | 40100 |
| Total          | 12045 | 33720 | 16225 | 7835 | 922 | 70746 |

G. Sourcewise generation (MU)

|                                     | NR  | WR   | SR  | ER  | NER | All India |
|-------------------------------------|-----|------|-----|-----|-----|-----------|
| Coal                                | 497 | 1116 | 408 | 418 | 7   | 2445      |
| Lignite                             | 19  | 14   | 55  | 0   | 0   | 88        |
| Hydro                               | 158 | 59   | 133 | 98  | 12  | 460       |
| Nuclear                             | 28  | 29   | 59  | 0   | 0   | 116       |
| Gas, Naptha & Diesel                | 27  | 74   | 14  | 0   | 24  | 139       |
| RES (Wind, Solar, Biomass & Others) | 46  | 48   | 119 | 2   | 0   | 215       |
| Total                               | 774 | 1340 | 788 | 518 | 43  | 3463      |

|   |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|
| Share of RES in total generation (%)                                      | 5.90  | 3.57  | 15.10 | 0.40  | 0.05  | 6.20  |
| Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%) | 29.83 | 10.16 | 39.49 | 19.29 | 28.89 | 22.83 |

H. Diversity Factor

|                                   |       |
|-----------------------------------|-------|
| All India Demand Diversity Factor | 1.010 |
|-----------------------------------|-------|

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 : 19-Oct-19

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                | 97              | 414             | 0.0         | 5.2          | -5.2          |     |
| 2                                     |                     | SASARAM-FATEHPUR        | S/C                | 243             | 118             | 0.9         | 0.0          | 0.9           |     |
| 3                                     |                     | GAYA-BALIA              | S/C                | 0               | 361             | 0.0         | 6.8          | -6.8          |     |
| 4                                     | HVDC                | ALIPURDUAR-AGRA         | -                  | 0               | 401             | 0.0         | 9.6          | -9.6          |     |
| 5                                     |                     | PUSAULI B/B             | S/C                | 0               | 198             | 0.0         | 4.8          | -4.8          |     |
| 6                                     | 400 kV              | PUSAULI-VARANASI        | S/C                | 0               | 184             | 0.0         | 3.5          | -3.5          |     |
| 7                                     |                     | PUSAULI -ALLAHABAD      | S/C                | 0               | 101             | 0.0         | 1.2          | -1.2          |     |
| 8                                     |                     | MUZAFFARPUR-GORAKHPUR   | D/C                | 0               | 644             | 0.0         | 7.6          | -7.6          |     |
| 9                                     |                     | PATNA-BALIA             | Q/C                | 0               | 1020            | 0.0         | 20.9         | -20.9         |     |
| 10                                    |                     | BIHARSHARIFF-BALIA      | D/C                | 0               | 300             | 0.0         | 3.7          | -3.7          |     |
| 11                                    |                     | MOTIHARI-GORAKHPUR      | D/C                | 0               | 5               | 0.0         | 0.0          | 0.0           |     |
| 12                                    | 220 kV              | BIHARSHARIFF-VARANASI   | D/C                | 208             | 95              | 1.3         | 0.0          | 1.3           |     |
| 13                                    |                     | PUSAULI-SAHUPURI        | S/C                | 0               | 166             | 0.0         | 2.5          | -2.5          |     |
| 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>2.6</b>  | <b>65.8</b>  | <b>-63.1</b>  |     |
| <b>Import/Export of ER (With WR)</b>  |                     |                         |                    |                 |                 |             |              |               |     |
| 18                                    | 765 kV              | JHARSUGUDA-DHARAMAJGARH | Q/C                | 1353            | 0               | 21.2        | 0.0          | 21.2          |     |
| 19                                    |                     | NEW RANCHI-DHARAMAJGARH | D/C                | 850             | 0               | 11.6        | 0.0          | 11.6          |     |
| 20                                    |                     | JHARSUGUDA-DURG         | D/C                | 167             | 72              | 1.5         | 0.0          | 1.5           |     |
| 21                                    | 400 kV              | JHARSUGUDA-RAIGARH      | Q/C                | 201             | 85              | 1.1         | 0.0          | 1.1           |     |
| 22                                    |                     | RANCHI-SIPAT            | D/C                | 313             | 0               | 4.1         | 0.0          | 4.1           |     |
| 23                                    | 220 kV              | BUDHIPADAR-RAIGARH      | S/C                | 12              | 44              | 0.0         | 0.9          | -0.9          |     |
| 24                                    |                     | BUDHIPADAR-KORBA        | D/C                | 142             | 0               | 2.5         | 0.0          | 2.5           |     |
| <b>ER-WR</b>                          |                     |                         |                    |                 |                 | <b>42.0</b> | <b>0.9</b>   | <b>41.1</b>   |     |
| <b>Import/Export of ER (With SR)</b>  |                     |                         |                    |                 |                 |             |              |               |     |
| 25                                    | 765 kV              | ANGUL-SRIKAKULAM        | D/C                | 0.0             | 1592.0          | 0.0         | 23.4         | -23.4         |     |
| 26                                    | HVDC                | JEYPORE-GAZUWAKA B/B    | D/C                | 0.0             | 480.0           | 0.0         | 11.1         | -11.1         |     |
| 27                                    | LINK                | TALCHER-KOLAR BIPOLE    | D/C                | 0.0             | 1487.0          | 0.0         | 26.4         | -26.4         |     |
| 28                                    | 400 kV              | TALCHER-I/C             | D/C                | 461.0           | 467.0           | 0.5         | 0.0          | 0.5           |     |
| 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>60.9</b>  | <b>-60.9</b>  |     |
| <b>Import/Export of ER (With NER)</b> |                     |                         |                    |                 |                 |             |              |               |     |
| 30                                    | 400 kV              | BINAGURI-BONGAIGAON     | D/C                | 0               | 740             | 0.0         | 9.0          | -9            |     |
| 31                                    |                     | ALIPURDUAR-BONGAIGAON   | D/C                | 0               | 711             | 0.0         | 8.5          | -9            |     |
| 32                                    | 220 kV              | ALIPURDUAR-SALAKATI     | D/C                | 0               | 182             | 0.0         | 2.4          | -2            |     |
| <b>ER-NER</b>                         |                     |                         |                    |                 |                 | <b>0.0</b>  | <b>19.8</b>  | <b>-19.8</b>  |     |
| <b>Import/Export of NER (With NR)</b> |                     |                         |                    |                 |                 |             |              |               |     |
| 33                                    | HVDC                | BISWANATH CHARIALI-AGRA | -                  | 0               | 504             | 0.0         | 10.3         | -10.3         |     |
| <b>NER-NR</b>                         |                     |                         |                    |                 |                 | <b>0.0</b>  | <b>10.3</b>  | <b>-10.3</b>  |     |
| <b>Import/Export of WR (With NR)</b>  |                     |                         |                    |                 |                 |             |              |               |     |
| 34                                    | HVDC                | CHAMPA-KURUKSHETRA      | D/C                | 0               | 1138            | 0.0         | 27.7         | -27.7         |     |
| 35                                    |                     | V'CHAL B/B              | D/C                | 451             | 0               | 11.3        | 0.0          | 11.3          |     |
| 36                                    |                     | APL -MHG                | D/C                | 0               | 1738            | 0.0         | 41.7         | -41.7         |     |
| 37                                    | 765 kV              | GWALIOR-AGRA            | D/C                | 0               | 2197            | 0.0         | 43.8         | -43.8         |     |
| 38                                    |                     | PHAGI-GWALIOR           | D/C                | 0               | 968             | 0.0         | 16.4         | -16.4         |     |
| 39                                    |                     | JABALPUR-ORAI           | D/C                | 0               | 732             | 0.0         | 26.8         | -26.8         |     |
| 40                                    |                     | GWALIOR-ORAI            | S/C                | 349             | 0               | 7.1         | 0.0          | 7.1           |     |
| 41                                    |                     | SATNA-ORAI              | S/C                | 0               | 1495            | 0.0         | 30.6         | -30.6         |     |
| 42                                    |                     | CHITTORGARH-BANASKANTHA | D/C                | 0               | 603             | 0.0         | 5.5          | -5.5          |     |
| 43                                    | 400 kV              | ZERDA-KANKROLI          | S/C                | 50              | 82              | 0.1         | 0.4          | -0.4          |     |
| 44                                    |                     | ZERDA -BHINMAL          | S/C                | 177             | 238             | 0.4         | 2.6          | -2.2          |     |
| 45                                    |                     | V'CHAL -RIHAND          | S/C                | 976             | 0               | 22.4        | 0.0          | 22.4          |     |
| 46                                    |                     | RAPP-SHUJALPUR          | D/C                | 8               | 265             | 0           | 3            | -3            |     |
| 47                                    | 220 kV              | BHANPURA-RANPUR         | S/C                | 24              | 53              | 0.1         | 0.5          | -0.4          |     |
| 48                                    |                     | BHANPURA-MORAK          | S/C                | 0               | 77              | 0.0         | 1.2          | -1.2          |     |
| 49                                    |                     | MEHGAON-AURAIYA         | S/C                | 73              | 17              | 0.3         | 0.0          | 0.2           |     |
| 50                                    |                     | MALANPUR-AURAIYA        | S/C                | 38              | 40              | 0.1         | 0.5          | -0.5          |     |
| 51                                    | 132kV               | GWALIOR-SAWAI MADHOPUR  | S/C                | 0               | 0               | 0.0         | 0.0          | 0.0           |     |
| <b>WR-NR</b>                          |                     |                         |                    |                 |                 | <b>41.7</b> | <b>200.6</b> | <b>-158.9</b> |     |
| <b>Import/Export of WR (With SR)</b>  |                     |                         |                    |                 |                 |             |              |               |     |
| 52                                    | HVDC                | BHADRAWATI B/B          | -                  | 0               | 512             | 0.0         | 6.0          | -6.0          |     |
| 53                                    | LINK                | BARSUR-L.SILERU         | -                  | 0               | 0               | 0.0         | 0.0          | 0.0           |     |
| 54                                    | 765 kV              | SOLAPUR-RAICHUR         | D/C                | 668             | 1386            | 3.5         | 7.1          | -3.6          |     |
| 55                                    |                     | WARDHA-NIZAMABAD        | D/C                | 0               | 1742            | 0.0         | 21.8         | -21.8         |     |
| 56                                    | 400 kV              | KOLHAPUR-KUDGI          | D/C                | 777             | 0               | 11.3        | 0.0          | 11.3          |     |
| 57                                    | 220 kV              | KOLHAPUR-CHIKODI        | D/C                | 0               | 0               | 0.0         | 0.0          | 0.0           |     |
| 58                                    |                     | PONDA-AMBEWADI          | S/C                | 0               | 65              | 0.0         | 1.3          | -1.3          |     |
| 59                                    |                     | XELDEM-AMBEWADI         | S/C                | 0               | 38              | 0.8         | 0.0          | 0.8           |     |
| <b>WR-SR</b>                          |                     |                         |                    |                 |                 | <b>15.5</b> | <b>36.1</b>  | <b>-20.6</b>  |     |
| <b>TRANSNATIONAL EXCHANGE</b>         |                     |                         |                    |                 |                 |             |              |               |     |
| 60                                    |                     | BHUTAN                  |                    |                 |                 |             |              | <b>24.8</b>   |     |
| 61                                    |                     | NEPAL                   |                    |                 |                 |             |              | <b>-2.6</b>   |     |
| 62                                    |                     | BANGLADESH              |                    |                 |                 |             |              | <b>-17.0</b>  |     |