

# Power System Operation Corporation Limited

## National Load Despatch Centre

### Applicable Transmission Loss

Revision No: 0

Date: 18.11.2022

It is to inform that Hon'ble CERC has notified CERC (Sharing of Inter State Transmission Charges and Losses) Regulations, 2020 on 04<sup>th</sup> May,2020; w.e.f. 1<sup>st</sup> November,2020. As per clause (10) of these regulations, transmission losses for ISTS shall be calculated on all India average basis for each week, from Monday to Sunday.

All India transmission loss would be based upon the average loss computed from the SEM data of previous week.

All India transmission loss for the period from 21-11-2022 to 27-11-2022 would be as follows:

|                                    |      |
|------------------------------------|------|
| All India transmission Loss (in %) | 3.90 |
|------------------------------------|------|

Illustration:

- a. Sum of injection into the ISTS at regional nodes for previous week = 12346.08 MU
- b. Sum of drawal into the ISTS at regional nodes for previous week = 11886.42 MU
- c. Sum of injection into the ISTS at regional nodes by projects covered under Clause (1) of Regulation 13 for previous week = 562.94 MU
- d. Then, average all-India transmission loss for ISTS shall be  $[(12346.08-11886.42)/(12346.08-562.94)] \times 100 = 3.90 \%$
- e. All figures are rounded off up to 2 decimal places.

\* All India Transmission Loss Data (block wise) calculated at NLDC is available in the Annexure1

## ANNEXURE1

### ALL INDIA TRANSMISSION LOSS COMPUTATIONAL DATA

| Date & Time Block | Total drawal (MWh) | Total injection (MWh) | Exempted RE Injection (MWh) | Loss (MWh) | Loss % |
|-------------------|--------------------|-----------------------|-----------------------------|------------|--------|
| 07-11-2022 00:00  | 15940.83           | 16572.60              | 220.99                      | 631.78     | 3.86   |
| 07-11-2022 00:15  | 15877.37           | 16524.82              | 227.71                      | 647.45     | 3.97   |
| 07-11-2022 00:30  | 15711.61           | 16365.37              | 222.78                      | 653.76     | 4.05   |
| 07-11-2022 00:45  | 15551.92           | 16212.14              | 215.72                      | 660.23     | 4.13   |
| 07-11-2022 01:00  | 15450.43           | 16121.70              | 213.30                      | 671.26     | 4.22   |
| 07-11-2022 01:15  | 15363.03           | 16032.09              | 208.83                      | 669.07     | 4.23   |
| 07-11-2022 01:30  | 15285.38           | 15942.65              | 197.11                      | 657.27     | 4.17   |
| 07-11-2022 01:45  | 15063.31           | 15745.29              | 184.74                      | 681.97     | 4.38   |
| 07-11-2022 02:00  | 14839.34           | 15497.76              | 188.95                      | 658.42     | 4.30   |
| 07-11-2022 02:15  | 14784.91           | 15435.93              | 198.23                      | 651.02     | 4.27   |
| 07-11-2022 02:30  | 14768.58           | 15432.32              | 204.24                      | 663.75     | 4.36   |
| 07-11-2022 02:45  | 14772.62           | 15441.36              | 213.27                      | 668.74     | 4.39   |
| 07-11-2022 03:00  | 14837.96           | 15519.22              | 223.94                      | 681.25     | 4.45   |
| 07-11-2022 03:15  | 14836.43           | 15516.16              | 221.28                      | 679.73     | 4.44   |
| 07-11-2022 03:30  | 14829.85           | 15513.37              | 210.39                      | 683.52     | 4.47   |
| 07-11-2022 03:45  | 14925.48           | 15596.54              | 211.37                      | 671.06     | 4.36   |
| 07-11-2022 04:00  | 15032.15           | 15736.26              | 219.53                      | 704.10     | 4.54   |
| 07-11-2022 04:15  | 15207.29           | 15919.97              | 227.48                      | 712.68     | 4.54   |
| 07-11-2022 04:30  | 15289.31           | 15998.05              | 246.73                      | 708.74     | 4.50   |
| 07-11-2022 04:45  | 15522.65           | 16237.72              | 256.23                      | 715.07     | 4.47   |
| 07-11-2022 05:00  | 15877.74           | 16626.38              | 260.05                      | 748.64     | 4.57   |
| 07-11-2022 05:15  | 16427.51           | 17175.54              | 260.40                      | 748.03     | 4.42   |
| 07-11-2022 05:30  | 16972.10           | 17748.29              | 254.70                      | 776.19     | 4.44   |
| 07-11-2022 05:45  | 17521.27           | 18257.71              | 250.06                      | 736.44     | 4.09   |
| 07-11-2022 06:00  | 18123.98           | 18889.98              | 236.22                      | 766.00     | 4.11   |
| 07-11-2022 06:15  | 18932.56           | 19719.86              | 227.38                      | 787.30     | 4.04   |
| 07-11-2022 06:30  | 19271.79           | 20064.41              | 239.56                      | 792.62     | 4.00   |
| 07-11-2022 06:45  | 19605.49           | 20426.97              | 275.52                      | 821.48     | 4.08   |
| 07-11-2022 07:00  | 19675.41           | 20489.99              | 359.63                      | 814.58     | 4.05   |
| 07-11-2022 07:15  | 19632.20           | 20474.62              | 480.20                      | 842.42     | 4.21   |
| 07-11-2022 07:30  | 19341.23           | 20147.75              | 625.53                      | 806.52     | 4.13   |
| 07-11-2022 07:45  | 19165.45           | 19927.90              | 798.87                      | 762.44     | 3.99   |
| 07-11-2022 08:00  | 19029.11           | 19776.71              | 969.80                      | 747.60     | 3.98   |
| 07-11-2022 08:15  | 18999.21           | 19721.17              | 1174.28                     | 721.97     | 3.89   |
| 07-11-2022 08:30  | 18929.57           | 19642.79              | 1345.53                     | 713.23     | 3.90   |
| 07-11-2022 08:45  | 18736.89           | 19460.38              | 1451.94                     | 723.49     | 4.02   |
| 07-11-2022 09:00  | 18711.77           | 19425.71              | 1625.69                     | 713.94     | 4.01   |

| Date & Time Block | Total drawal (MWh) | Total injection (MWh) | Exempted RE Injection (MWh) | Loss (MWh) | Loss % |
|-------------------|--------------------|-----------------------|-----------------------------|------------|--------|
| 07-11-2022 09:15  | 18848.29           | 19563.43              | 1892.75                     | 715.15     | 4.05   |
| 07-11-2022 09:30  | 18937.14           | 19640.50              | 2077.52                     | 703.36     | 4.00   |
| 07-11-2022 09:45  | 18978.95           | 19670.39              | 2215.76                     | 691.44     | 3.96   |
| 07-11-2022 10:00  | 18949.85           | 19612.78              | 2251.44                     | 662.93     | 3.82   |
| 07-11-2022 10:15  | 19002.90           | 19708.76              | 2349.51                     | 705.85     | 4.07   |
| 07-11-2022 10:30  | 18979.65           | 19730.56              | 2477.45                     | 750.91     | 4.35   |
| 07-11-2022 10:45  | 18836.74           | 19560.82              | 2543.86                     | 724.09     | 4.26   |
| 07-11-2022 11:00  | 18845.22           | 19507.22              | 2590.95                     | 662.00     | 3.91   |
| 07-11-2022 11:15  | 18822.48           | 19520.34              | 2547.98                     | 697.86     | 4.11   |
| 07-11-2022 11:30  | 18875.72           | 19582.67              | 2488.82                     | 706.95     | 4.14   |
| 07-11-2022 11:45  | 18796.76           | 19567.50              | 2525.08                     | 770.75     | 4.52   |
| 07-11-2022 12:00  | 18543.00           | 19271.73              | 2618.49                     | 728.73     | 4.38   |
| 07-11-2022 12:15  | 18651.46           | 19355.59              | 2703.26                     | 704.13     | 4.23   |
| 07-11-2022 12:30  | 18474.67           | 19184.24              | 2668.20                     | 709.56     | 4.30   |
| 07-11-2022 12:45  | 18300.69           | 19031.01              | 2655.66                     | 730.32     | 4.46   |
| 07-11-2022 13:00  | 18089.92           | 18780.87              | 2599.08                     | 690.95     | 4.27   |
| 07-11-2022 13:15  | 18083.35           | 18745.53              | 2587.15                     | 662.18     | 4.10   |
| 07-11-2022 13:30  | 18048.66           | 18743.59              | 2508.19                     | 694.93     | 4.28   |
| 07-11-2022 13:45  | 18020.23           | 18700.97              | 2342.19                     | 680.73     | 4.16   |
| 07-11-2022 14:00  | 18043.27           | 18687.76              | 2261.30                     | 644.49     | 3.92   |
| 07-11-2022 14:15  | 18240.87           | 18867.05              | 2192.15                     | 626.17     | 3.76   |
| 07-11-2022 14:30  | 18198.90           | 18808.64              | 2043.20                     | 609.74     | 3.64   |
| 07-11-2022 14:45  | 18192.55           | 18845.83              | 1887.86                     | 653.28     | 3.85   |
| 07-11-2022 15:00  | 18274.48           | 18920.36              | 1739.21                     | 645.88     | 3.76   |
| 07-11-2022 15:15  | 18365.75           | 19012.75              | 1550.39                     | 646.99     | 3.71   |
| 07-11-2022 15:30  | 18484.68           | 19140.22              | 1347.43                     | 655.55     | 3.68   |
| 07-11-2022 15:45  | 18614.68           | 19311.00              | 1161.60                     | 696.32     | 3.84   |
| 07-11-2022 16:00  | 18511.64           | 19210.27              | 972.41                      | 698.63     | 3.83   |
| 07-11-2022 16:15  | 18649.56           | 19384.92              | 804.64                      | 735.37     | 3.96   |
| 07-11-2022 16:30  | 18845.73           | 19590.99              | 634.45                      | 745.27     | 3.93   |
| 07-11-2022 16:45  | 18942.92           | 19660.90              | 461.12                      | 717.99     | 3.74   |
| 07-11-2022 17:00  | 18847.96           | 19635.64              | 311.89                      | 787.67     | 4.08   |
| 07-11-2022 17:15  | 19213.66           | 19943.16              | 196.14                      | 729.50     | 3.69   |
| 07-11-2022 17:30  | 19521.79           | 20319.42              | 123.95                      | 797.63     | 3.95   |
| 07-11-2022 17:45  | 19935.03           | 20670.85              | 87.88                       | 735.82     | 3.57   |
| 07-11-2022 18:00  | 20069.84           | 20808.03              | 89.58                       | 738.19     | 3.56   |
| 07-11-2022 18:15  | 20565.30           | 21283.56              | 100.40                      | 718.26     | 3.39   |
| 07-11-2022 18:30  | 20578.92           | 21328.18              | 105.26                      | 749.25     | 3.53   |
| 07-11-2022 18:45  | 20540.97           | 21292.04              | 102.98                      | 751.07     | 3.54   |
| 07-11-2022 19:00  | 20330.91           | 21102.98              | 96.96                       | 772.07     | 3.68   |
| 07-11-2022 19:15  | 20212.09           | 20951.75              | 96.46                       | 739.66     | 3.55   |
| 07-11-2022 19:30  | 19893.75           | 20638.85              | 104.90                      | 745.10     | 3.63   |

| Date & Time Block | Total drawal (MWh) | Total injection (MWh) | Exempted RE Injection (MWh) | Loss (MWh) | Loss % |
|-------------------|--------------------|-----------------------|-----------------------------|------------|--------|
| 07-11-2022 19:45  | 19436.64           | 20153.86              | 113.22                      | 717.21     | 3.58   |
| 07-11-2022 20:00  | 19025.35           | 19716.82              | 125.45                      | 691.47     | 3.53   |
| 07-11-2022 20:15  | 18633.92           | 19361.90              | 145.15                      | 727.98     | 3.79   |
| 07-11-2022 20:30  | 18425.77           | 19133.01              | 158.84                      | 707.24     | 3.73   |
| 07-11-2022 20:45  | 18180.82           | 18869.63              | 163.53                      | 688.81     | 3.68   |
| 07-11-2022 21:00  | 17840.98           | 18540.13              | 166.11                      | 699.15     | 3.81   |
| 07-11-2022 21:15  | 17663.27           | 18364.08              | 161.24                      | 700.81     | 3.85   |
| 07-11-2022 21:30  | 17428.47           | 18131.30              | 163.82                      | 702.83     | 3.91   |
| 07-11-2022 21:45  | 17123.29           | 17813.69              | 165.06                      | 690.40     | 3.91   |
| 07-11-2022 22:00  | 17109.80           | 17781.14              | 172.54                      | 671.34     | 3.81   |
| 07-11-2022 22:15  | 17119.40           | 17823.92              | 189.35                      | 704.52     | 4.00   |
| 07-11-2022 22:30  | 16908.38           | 17630.04              | 210.93                      | 721.66     | 4.14   |
| 07-11-2022 22:45  | 16746.55           | 17450.58              | 219.70                      | 704.03     | 4.09   |
| 07-11-2022 23:00  | 16555.32           | 17230.77              | 216.60                      | 675.45     | 3.97   |
| 07-11-2022 23:15  | 16419.25           | 17130.24              | 208.34                      | 710.99     | 4.20   |
| 07-11-2022 23:30  | 16413.20           | 17132.82              | 207.17                      | 719.62     | 4.25   |
| 07-11-2022 23:45  | 16475.65           | 17204.73              | 205.70                      | 729.07     | 4.29   |
| 08-11-2022 00:00  | 16432.12           | 17164.52              | 215.82                      | 732.40     | 4.32   |
| 08-11-2022 00:15  | 16405.11           | 17123.18              | 233.08                      | 718.07     | 4.25   |
| 08-11-2022 00:30  | 16183.83           | 16907.75              | 247.08                      | 723.91     | 4.35   |
| 08-11-2022 00:45  | 16032.95           | 16782.66              | 255.57                      | 749.72     | 4.54   |
| 08-11-2022 01:00  | 15867.69           | 16619.37              | 262.88                      | 751.68     | 4.60   |
| 08-11-2022 01:15  | 15816.90           | 16579.80              | 281.94                      | 762.90     | 4.68   |
| 08-11-2022 01:30  | 15691.39           | 16442.78              | 301.62                      | 751.40     | 4.66   |
| 08-11-2022 01:45  | 15478.90           | 16243.44              | 308.55                      | 764.54     | 4.80   |
| 08-11-2022 02:00  | 15266.86           | 16012.60              | 311.29                      | 745.74     | 4.75   |
| 08-11-2022 02:15  | 15221.33           | 15971.99              | 313.11                      | 750.66     | 4.79   |
| 08-11-2022 02:30  | 15274.82           | 16037.85              | 306.78                      | 763.03     | 4.85   |
| 08-11-2022 02:45  | 15394.05           | 16145.64              | 281.34                      | 751.59     | 4.74   |
| 08-11-2022 03:00  | 15262.45           | 16103.22              | 257.65                      | 840.76     | 5.31   |
| 08-11-2022 03:15  | 15215.73           | 16001.36              | 242.96                      | 785.63     | 4.99   |
| 08-11-2022 03:30  | 15264.76           | 16039.15              | 230.99                      | 774.39     | 4.90   |
| 08-11-2022 03:45  | 15282.11           | 16039.58              | 233.40                      | 757.47     | 4.79   |
| 08-11-2022 04:00  | 15368.76           | 16157.51              | 234.24                      | 788.74     | 4.95   |
| 08-11-2022 04:15  | 15611.99           | 16406.91              | 236.05                      | 794.92     | 4.92   |
| 08-11-2022 04:30  | 15795.20           | 16583.52              | 235.24                      | 788.32     | 4.82   |
| 08-11-2022 04:45  | 15923.59           | 16722.67              | 225.95                      | 799.08     | 4.84   |
| 08-11-2022 05:00  | 16087.35           | 16878.65              | 224.35                      | 791.30     | 4.75   |
| 08-11-2022 05:15  | 16566.12           | 17356.13              | 221.89                      | 790.00     | 4.61   |
| 08-11-2022 05:30  | 17129.22           | 17931.49              | 216.13                      | 802.26     | 4.53   |
| 08-11-2022 05:45  | 17525.45           | 18349.48              | 203.53                      | 824.03     | 4.54   |
| 08-11-2022 06:00  | 17971.27           | 18790.87              | 187.16                      | 819.61     | 4.41   |

| Date & Time Block | Total drawal (MWh) | Total injection (MWh) | Exempted RE Injection (MWh) | Loss (MWh) | Loss % |
|-------------------|--------------------|-----------------------|-----------------------------|------------|--------|
| 08-11-2022 06:15  | 18609.18           | 19469.01              | 175.78                      | 859.82     | 4.46   |
| 08-11-2022 06:30  | 19025.67           | 19882.38              | 181.80                      | 856.72     | 4.35   |
| 08-11-2022 06:45  | 19296.36           | 20138.47              | 206.93                      | 842.10     | 4.22   |
| 08-11-2022 07:00  | 19386.24           | 20205.37              | 261.66                      | 819.13     | 4.11   |
| 08-11-2022 07:15  | 19507.90           | 20323.16              | 375.66                      | 815.27     | 4.09   |
| 08-11-2022 07:30  | 19429.38           | 20259.35              | 542.86                      | 829.97     | 4.21   |
| 08-11-2022 07:45  | 19094.63           | 19856.84              | 695.98                      | 762.21     | 3.98   |
| 08-11-2022 08:00  | 18878.28           | 19655.41              | 866.28                      | 777.13     | 4.14   |
| 08-11-2022 08:15  | 18813.68           | 19550.56              | 1048.01                     | 736.88     | 3.98   |
| 08-11-2022 08:30  | 18712.72           | 19424.87              | 1171.45                     | 712.15     | 3.90   |
| 08-11-2022 08:45  | 18444.28           | 19153.84              | 1287.92                     | 709.56     | 3.97   |
| 08-11-2022 09:00  | 18428.16           | 19118.59              | 1492.22                     | 690.43     | 3.92   |
| 08-11-2022 09:15  | 18745.46           | 19467.18              | 1682.32                     | 721.72     | 4.06   |
| 08-11-2022 09:30  | 18874.80           | 19587.24              | 1840.88                     | 712.44     | 4.01   |
| 08-11-2022 09:45  | 18877.35           | 19611.00              | 1997.80                     | 733.65     | 4.17   |
| 08-11-2022 10:00  | 19016.81           | 19703.37              | 2161.42                     | 686.56     | 3.91   |
| 08-11-2022 10:15  | 19043.90           | 19727.93              | 2258.37                     | 684.03     | 3.92   |
| 08-11-2022 10:30  | 19021.80           | 19791.48              | 2246.80                     | 769.68     | 4.39   |
| 08-11-2022 10:45  | 18908.05           | 19664.61              | 2270.39                     | 756.56     | 4.35   |
| 08-11-2022 11:00  | 18859.96           | 19618.46              | 2349.03                     | 758.50     | 4.39   |
| 08-11-2022 11:15  | 18831.45           | 19554.03              | 2432.44                     | 722.58     | 4.22   |
| 08-11-2022 11:30  | 18670.13           | 19429.74              | 2486.53                     | 759.61     | 4.48   |
| 08-11-2022 11:45  | 18621.26           | 19352.89              | 2482.16                     | 731.63     | 4.34   |
| 08-11-2022 12:00  | 18480.91           | 19193.52              | 2501.54                     | 712.62     | 4.27   |
| 08-11-2022 12:15  | 18483.11           | 19196.46              | 2516.95                     | 713.35     | 4.28   |
| 08-11-2022 12:30  | 18503.48           | 19196.17              | 2498.39                     | 692.70     | 4.15   |
| 08-11-2022 12:45  | 18490.58           | 19187.21              | 2528.99                     | 696.63     | 4.18   |
| 08-11-2022 13:00  | 18181.49           | 18814.14              | 2503.85                     | 632.65     | 3.88   |
| 08-11-2022 13:15  | 18058.67           | 18727.47              | 2469.87                     | 668.80     | 4.11   |
| 08-11-2022 13:30  | 18174.43           | 18837.73              | 2380.23                     | 663.31     | 4.03   |
| 08-11-2022 13:45  | 18148.91           | 18810.70              | 2276.97                     | 661.79     | 4.00   |
| 08-11-2022 14:00  | 18030.58           | 18642.23              | 2262.46                     | 611.65     | 3.73   |
| 08-11-2022 14:15  | 18179.75           | 18819.02              | 2154.81                     | 639.27     | 3.84   |
| 08-11-2022 14:30  | 18258.53           | 18841.36              | 2061.03                     | 582.83     | 3.47   |
| 08-11-2022 14:45  | 18334.88           | 18948.99              | 1952.78                     | 614.10     | 3.61   |
| 08-11-2022 15:00  | 18294.89           | 18953.10              | 1798.59                     | 658.21     | 3.84   |
| 08-11-2022 15:15  | 18508.57           | 19150.05              | 1602.29                     | 641.47     | 3.66   |
| 08-11-2022 15:30  | 18532.90           | 19209.28              | 1428.31                     | 676.37     | 3.80   |
| 08-11-2022 15:45  | 18761.01           | 19448.27              | 1231.03                     | 687.26     | 3.77   |
| 08-11-2022 16:00  | 18699.91           | 19369.08              | 1026.51                     | 669.17     | 3.65   |
| 08-11-2022 16:15  | 18904.87           | 19617.10              | 850.42                      | 712.24     | 3.80   |
| 08-11-2022 16:30  | 19079.94           | 19795.54              | 727.27                      | 715.60     | 3.75   |

| Date & Time Block | Total drawal (MWh) | Total injection (MWh) | Exempted RE Injection (MWh) | Loss (MWh) | Loss % |
|-------------------|--------------------|-----------------------|-----------------------------|------------|--------|
| 08-11-2022 16:45  | 19243.98           | 19964.95              | 592.21                      | 720.96     | 3.72   |
| 08-11-2022 17:00  | 19162.60           | 19908.73              | 431.53                      | 746.13     | 3.83   |
| 08-11-2022 17:15  | 19491.88           | 20258.64              | 291.93                      | 766.76     | 3.84   |
| 08-11-2022 17:30  | 19799.82           | 20552.87              | 207.23                      | 753.06     | 3.70   |
| 08-11-2022 17:45  | 20214.26           | 20960.21              | 173.54                      | 745.95     | 3.59   |
| 08-11-2022 18:00  | 20401.32           | 21114.48              | 165.51                      | 713.16     | 3.40   |
| 08-11-2022 18:15  | 21113.23           | 21835.20              | 151.81                      | 721.98     | 3.33   |
| 08-11-2022 18:30  | 21330.90           | 22069.30              | 142.99                      | 738.40     | 3.37   |
| 08-11-2022 18:45  | 20990.44           | 21721.14              | 149.47                      | 730.70     | 3.39   |
| 08-11-2022 19:00  | 20640.59           | 21421.13              | 144.20                      | 780.54     | 3.67   |
| 08-11-2022 19:15  | 20303.33           | 21073.29              | 137.84                      | 769.96     | 3.68   |
| 08-11-2022 19:30  | 19946.28           | 20692.61              | 141.83                      | 746.33     | 3.63   |
| 08-11-2022 19:45  | 19528.22           | 20303.94              | 148.89                      | 775.72     | 3.85   |
| 08-11-2022 20:00  | 19140.57           | 19846.97              | 158.25                      | 706.40     | 3.59   |
| 08-11-2022 20:15  | 18870.42           | 19596.42              | 167.15                      | 726.00     | 3.74   |
| 08-11-2022 20:30  | 18451.83           | 19162.71              | 164.79                      | 710.88     | 3.74   |
| 08-11-2022 20:45  | 18188.89           | 18863.20              | 158.81                      | 674.31     | 3.61   |
| 08-11-2022 21:00  | 18077.16           | 18747.72              | 156.20                      | 670.56     | 3.61   |
| 08-11-2022 21:15  | 17854.27           | 18518.27              | 154.33                      | 664.00     | 3.62   |
| 08-11-2022 21:30  | 17570.91           | 18259.52              | 159.34                      | 688.61     | 3.80   |
| 08-11-2022 21:45  | 17240.77           | 17917.86              | 166.66                      | 677.09     | 3.81   |
| 08-11-2022 22:00  | 17223.32           | 17955.21              | 169.46                      | 731.89     | 4.12   |
| 08-11-2022 22:15  | 17346.40           | 18072.08              | 175.76                      | 725.68     | 4.05   |
| 08-11-2022 22:30  | 17166.35           | 17855.95              | 184.11                      | 689.59     | 3.90   |
| 08-11-2022 22:45  | 16900.90           | 17535.49              | 189.08                      | 634.59     | 3.66   |
| 08-11-2022 23:00  | 16604.32           | 17264.96              | 194.47                      | 660.63     | 3.87   |
| 08-11-2022 23:15  | 16443.46           | 17137.56              | 207.17                      | 694.10     | 4.10   |
| 08-11-2022 23:30  | 16348.57           | 17042.58              | 220.12                      | 694.01     | 4.13   |
| 08-11-2022 23:45  | 16227.39           | 16914.12              | 222.39                      | 686.73     | 4.11   |
| 09-11-2022 00:00  | 16052.46           | 16729.95              | 215.17                      | 677.48     | 4.10   |
| 09-11-2022 00:15  | 15927.37           | 16623.67              | 211.33                      | 696.29     | 4.24   |
| 09-11-2022 00:30  | 15724.77           | 16432.11              | 211.51                      | 707.34     | 4.36   |
| 09-11-2022 00:45  | 15650.38           | 16368.26              | 208.56                      | 717.88     | 4.44   |
| 09-11-2022 01:00  | 15541.73           | 16270.92              | 201.45                      | 729.19     | 4.54   |
| 09-11-2022 01:15  | 15641.69           | 16359.86              | 190.39                      | 718.17     | 4.44   |
| 09-11-2022 01:30  | 15626.64           | 16355.76              | 184.90                      | 729.12     | 4.51   |
| 09-11-2022 01:45  | 15497.45           | 16238.50              | 186.14                      | 741.05     | 4.62   |
| 09-11-2022 02:00  | 15411.41           | 16116.33              | 191.47                      | 704.93     | 4.43   |
| 09-11-2022 02:15  | 15372.69           | 16086.62              | 211.07                      | 713.93     | 4.50   |
| 09-11-2022 02:30  | 15219.52           | 15913.54              | 233.71                      | 694.03     | 4.43   |
| 09-11-2022 02:45  | 15099.66           | 15809.11              | 248.40                      | 709.45     | 4.56   |
| 09-11-2022 03:00  | 15178.36           | 15910.90              | 268.27                      | 732.54     | 4.68   |

| Date & Time Block | Total drawal (MWh) | Total injection (MWh) | Exempted RE Injection (MWh) | Loss (MWh) | Loss % |
|-------------------|--------------------|-----------------------|-----------------------------|------------|--------|
| 09-11-2022 03:15  | 15199.37           | 15910.48              | 288.06                      | 711.11     | 4.55   |
| 09-11-2022 03:30  | 15163.83           | 15891.11              | 311.88                      | 727.28     | 4.67   |
| 09-11-2022 03:45  | 15236.71           | 15927.27              | 334.54                      | 690.57     | 4.43   |
| 09-11-2022 04:00  | 15246.66           | 15961.52              | 350.59                      | 714.86     | 4.58   |
| 09-11-2022 04:15  | 15463.80           | 16194.30              | 349.88                      | 730.50     | 4.61   |
| 09-11-2022 04:30  | 15672.58           | 16393.57              | 347.43                      | 720.98     | 4.49   |
| 09-11-2022 04:45  | 15832.51           | 16562.57              | 339.73                      | 730.06     | 4.50   |
| 09-11-2022 05:00  | 16157.99           | 16877.67              | 338.44                      | 719.68     | 4.35   |
| 09-11-2022 05:15  | 16788.55           | 17505.38              | 350.42                      | 716.83     | 4.18   |
| 09-11-2022 05:30  | 17342.91           | 18089.55              | 356.42                      | 746.64     | 4.21   |
| 09-11-2022 05:45  | 17889.24           | 18674.18              | 353.66                      | 784.93     | 4.28   |
| 09-11-2022 06:00  | 18384.19           | 19134.57              | 341.79                      | 750.38     | 3.99   |
| 09-11-2022 06:15  | 19092.59           | 19820.31              | 332.31                      | 727.72     | 3.73   |
| 09-11-2022 06:30  | 19403.48           | 20198.77              | 348.14                      | 795.29     | 4.01   |
| 09-11-2022 06:45  | 19702.24           | 20486.31              | 381.63                      | 784.07     | 3.90   |
| 09-11-2022 07:00  | 19726.38           | 20501.68              | 457.25                      | 775.30     | 3.87   |
| 09-11-2022 07:15  | 19860.68           | 20653.27              | 566.83                      | 792.59     | 3.95   |
| 09-11-2022 07:30  | 19781.56           | 20540.94              | 689.05                      | 759.38     | 3.83   |
| 09-11-2022 07:45  | 19421.41           | 20144.29              | 838.82                      | 722.89     | 3.74   |
| 09-11-2022 08:00  | 19068.70           | 19746.16              | 1001.95                     | 677.46     | 3.61   |
| 09-11-2022 08:15  | 18879.59           | 19567.38              | 1175.90                     | 687.80     | 3.74   |
| 09-11-2022 08:30  | 18582.73           | 19296.38              | 1352.29                     | 713.65     | 3.98   |
| 09-11-2022 08:45  | 18382.68           | 19054.52              | 1526.89                     | 671.84     | 3.83   |
| 09-11-2022 09:00  | 18630.80           | 19268.12              | 1701.28                     | 637.32     | 3.63   |
| 09-11-2022 09:15  | 18881.81           | 19558.44              | 1874.00                     | 676.63     | 3.83   |
| 09-11-2022 09:30  | 18968.04           | 19651.21              | 2041.48                     | 683.17     | 3.88   |
| 09-11-2022 09:45  | 19036.54           | 19711.01              | 2201.17                     | 674.47     | 3.85   |
| 09-11-2022 10:00  | 19076.69           | 19730.88              | 2357.06                     | 654.19     | 3.77   |
| 09-11-2022 10:15  | 19289.89           | 19989.50              | 2486.95                     | 699.62     | 4.00   |
| 09-11-2022 10:30  | 19329.44           | 20047.15              | 2532.17                     | 717.71     | 4.10   |
| 09-11-2022 10:45  | 19320.18           | 20047.00              | 2605.85                     | 726.82     | 4.17   |
| 09-11-2022 11:00  | 19281.49           | 19991.93              | 2660.93                     | 710.45     | 4.10   |
| 09-11-2022 11:15  | 19322.35           | 20048.81              | 2690.30                     | 726.46     | 4.19   |
| 09-11-2022 11:30  | 19214.27           | 19910.02              | 2724.94                     | 695.75     | 4.05   |
| 09-11-2022 11:45  | 19178.80           | 19908.38              | 2741.35                     | 729.58     | 4.25   |
| 09-11-2022 12:00  | 18951.54           | 19634.37              | 2733.72                     | 682.84     | 4.04   |
| 09-11-2022 12:15  | 18948.08           | 19650.04              | 2752.54                     | 701.95     | 4.15   |
| 09-11-2022 12:30  | 18852.86           | 19525.02              | 2729.51                     | 672.16     | 4.00   |
| 09-11-2022 12:45  | 18710.82           | 19410.48              | 2688.51                     | 699.65     | 4.18   |
| 09-11-2022 13:00  | 18358.47           | 18999.96              | 2630.21                     | 641.49     | 3.92   |
| 09-11-2022 13:15  | 18255.49           | 18933.33              | 2565.21                     | 677.84     | 4.14   |
| 09-11-2022 13:30  | 18189.84           | 18883.53              | 2469.07                     | 693.68     | 4.23   |

| Date & Time Block | Total drawal (MWh) | Total injection (MWh) | Exempted RE Injection (MWh) | Loss (MWh) | Loss % |
|-------------------|--------------------|-----------------------|-----------------------------|------------|--------|
| 09-11-2022 13:45  | 18135.74           | 18804.51              | 2302.37                     | 668.77     | 4.05   |
| 09-11-2022 14:00  | 18121.05           | 18732.38              | 2249.99                     | 611.33     | 3.71   |
| 09-11-2022 14:15  | 18497.09           | 19155.75              | 2154.13                     | 658.66     | 3.87   |
| 09-11-2022 14:30  | 18635.69           | 19292.75              | 2027.22                     | 657.06     | 3.81   |
| 09-11-2022 14:45  | 18682.33           | 19338.35              | 1828.35                     | 656.01     | 3.75   |
| 09-11-2022 15:00  | 18593.55           | 19249.56              | 1596.04                     | 656.01     | 3.72   |
| 09-11-2022 15:15  | 18767.23           | 19431.08              | 1476.65                     | 663.85     | 3.70   |
| 09-11-2022 15:30  | 18825.10           | 19510.37              | 1296.52                     | 685.27     | 3.76   |
| 09-11-2022 15:45  | 18876.13           | 19575.66              | 1176.20                     | 699.52     | 3.80   |
| 09-11-2022 16:00  | 18917.52           | 19584.48              | 1032.58                     | 666.96     | 3.60   |
| 09-11-2022 16:15  | 19139.76           | 19819.93              | 821.14                      | 680.17     | 3.58   |
| 09-11-2022 16:30  | 19304.44           | 20022.49              | 612.76                      | 718.05     | 3.70   |
| 09-11-2022 16:45  | 19688.49           | 20438.41              | 432.22                      | 749.92     | 3.75   |
| 09-11-2022 17:00  | 19750.89           | 20516.87              | 269.92                      | 765.98     | 3.78   |
| 09-11-2022 17:15  | 20249.56           | 21028.82              | 171.48                      | 779.26     | 3.74   |
| 09-11-2022 17:30  | 20514.46           | 21256.03              | 101.77                      | 741.57     | 3.51   |
| 09-11-2022 17:45  | 20738.98           | 21533.07              | 68.87                       | 794.09     | 3.70   |
| 09-11-2022 18:00  | 20693.56           | 21427.38              | 68.97                       | 733.82     | 3.44   |
| 09-11-2022 18:15  | 21011.37           | 21703.24              | 74.19                       | 691.87     | 3.20   |
| 09-11-2022 18:30  | 21122.61           | 21883.24              | 77.35                       | 760.63     | 3.49   |
| 09-11-2022 18:45  | 21003.79           | 21736.46              | 84.80                       | 732.67     | 3.38   |
| 09-11-2022 19:00  | 20930.70           | 21671.58              | 93.99                       | 740.88     | 3.43   |
| 09-11-2022 19:15  | 20739.43           | 21470.20              | 104.88                      | 730.77     | 3.42   |
| 09-11-2022 19:30  | 20315.72           | 21042.11              | 112.06                      | 726.39     | 3.47   |
| 09-11-2022 19:45  | 19780.36           | 20512.34              | 106.64                      | 731.98     | 3.59   |
| 09-11-2022 20:00  | 19420.74           | 20125.51              | 94.47                       | 704.77     | 3.52   |
| 09-11-2022 20:15  | 19056.14           | 19753.28              | 85.44                       | 697.14     | 3.54   |
| 09-11-2022 20:30  | 18539.85           | 19226.16              | 80.80                       | 686.31     | 3.58   |
| 09-11-2022 20:45  | 18070.50           | 18739.29              | 86.29                       | 668.79     | 3.59   |
| 09-11-2022 21:00  | 17690.63           | 18378.23              | 94.52                       | 687.60     | 3.76   |
| 09-11-2022 21:15  | 17443.49           | 18118.42              | 96.50                       | 674.92     | 3.75   |
| 09-11-2022 21:30  | 17149.95           | 17827.78              | 96.57                       | 677.83     | 3.82   |
| 09-11-2022 21:45  | 16816.30           | 17488.03              | 94.67                       | 671.73     | 3.86   |
| 09-11-2022 22:00  | 16869.75           | 17524.33              | 95.72                       | 654.58     | 3.76   |
| 09-11-2022 22:15  | 16838.63           | 17521.67              | 106.73                      | 683.04     | 3.92   |
| 09-11-2022 22:30  | 16775.07           | 17470.97              | 126.39                      | 695.90     | 4.01   |
| 09-11-2022 22:45  | 16762.71           | 17437.35              | 149.64                      | 674.65     | 3.90   |
| 09-11-2022 23:00  | 16419.87           | 17098.30              | 172.95                      | 678.43     | 4.01   |
| 09-11-2022 23:15  | 16306.63           | 16994.57              | 194.02                      | 687.95     | 4.09   |
| 09-11-2022 23:30  | 16077.63           | 16764.35              | 207.32                      | 686.73     | 4.15   |
| 09-11-2022 23:45  | 15948.76           | 16658.26              | 205.58                      | 709.50     | 4.31   |
| 10-11-2022 00:00  | 15979.52           | 16699.93              | 197.70                      | 720.41     | 4.37   |



| Date & Time Block | Total drawal (MWh) | Total injection (MWh) | Exempted RE Injection (MWh) | Loss (MWh) | Loss % |
|-------------------|--------------------|-----------------------|-----------------------------|------------|--------|
| 10-11-2022 00:15  | 15967.46           | 16691.61              | 186.23                      | 724.15     | 4.39   |
| 10-11-2022 00:30  | 15833.63           | 16563.27              | 176.45                      | 729.64     | 4.45   |
| 10-11-2022 00:45  | 15788.03           | 16486.08              | 173.40                      | 698.05     | 4.28   |
| 10-11-2022 01:00  | 15593.12           | 16323.36              | 166.49                      | 730.24     | 4.52   |
| 10-11-2022 01:15  | 15544.08           | 16264.78              | 164.25                      | 720.70     | 4.48   |
| 10-11-2022 01:30  | 15518.16           | 16233.30              | 169.35                      | 715.14     | 4.45   |
| 10-11-2022 01:45  | 15218.23           | 15937.11              | 177.72                      | 718.88     | 4.56   |
| 10-11-2022 02:00  | 15088.36           | 15785.56              | 191.22                      | 697.20     | 4.47   |
| 10-11-2022 02:15  | 15106.07           | 15813.02              | 200.74                      | 706.95     | 4.53   |
| 10-11-2022 02:30  | 15126.12           | 15826.28              | 209.79                      | 700.17     | 4.48   |
| 10-11-2022 02:45  | 15220.27           | 15941.07              | 210.91                      | 720.80     | 4.58   |
| 10-11-2022 03:00  | 15281.26           | 15966.40              | 221.83                      | 685.15     | 4.35   |
| 10-11-2022 03:15  | 15266.75           | 15983.40              | 237.04                      | 716.65     | 4.55   |
| 10-11-2022 03:30  | 15258.25           | 15952.55              | 248.62                      | 694.29     | 4.42   |
| 10-11-2022 03:45  | 15255.22           | 15959.75              | 261.78                      | 704.53     | 4.49   |
| 10-11-2022 04:00  | 15332.86           | 16055.49              | 274.74                      | 722.63     | 4.58   |
| 10-11-2022 04:15  | 15598.82           | 16312.65              | 289.82                      | 713.83     | 4.46   |
| 10-11-2022 04:30  | 15727.72           | 16463.43              | 309.51                      | 735.71     | 4.55   |
| 10-11-2022 04:45  | 15893.19           | 16612.78              | 323.81                      | 719.59     | 4.42   |
| 10-11-2022 05:00  | 16053.65           | 16775.45              | 336.15                      | 721.80     | 4.39   |
| 10-11-2022 05:15  | 16524.61           | 17252.10              | 349.14                      | 727.49     | 4.30   |
| 10-11-2022 05:30  | 17020.26           | 17780.72              | 346.20                      | 760.46     | 4.36   |
| 10-11-2022 05:45  | 17493.33           | 18278.92              | 335.38                      | 785.59     | 4.38   |
| 10-11-2022 06:00  | 18051.58           | 18783.46              | 326.14                      | 731.88     | 3.97   |
| 10-11-2022 06:15  | 19045.19           | 19877.28              | 327.39                      | 832.09     | 4.26   |
| 10-11-2022 06:30  | 19472.49           | 20292.69              | 351.54                      | 820.20     | 4.11   |
| 10-11-2022 06:45  | 19663.84           | 20483.18              | 396.14                      | 819.34     | 4.08   |
| 10-11-2022 07:00  | 19537.09           | 20328.45              | 466.76                      | 791.36     | 3.98   |
| 10-11-2022 07:15  | 19668.65           | 20435.50              | 576.57                      | 766.86     | 3.86   |
| 10-11-2022 07:30  | 19660.27           | 20419.22              | 714.07                      | 758.95     | 3.85   |
| 10-11-2022 07:45  | 19226.55           | 19955.63              | 888.14                      | 729.09     | 3.82   |
| 10-11-2022 08:00  | 18967.93           | 19685.56              | 1083.79                     | 717.63     | 3.86   |
| 10-11-2022 08:15  | 18948.61           | 19633.64              | 1277.21                     | 685.04     | 3.73   |
| 10-11-2022 08:30  | 18813.26           | 19494.76              | 1475.70                     | 681.50     | 3.78   |
| 10-11-2022 08:45  | 18795.23           | 19448.29              | 1677.77                     | 653.06     | 3.67   |
| 10-11-2022 09:00  | 18928.97           | 19568.07              | 1862.22                     | 639.10     | 3.61   |
| 10-11-2022 09:15  | 19053.92           | 19695.52              | 2006.64                     | 641.60     | 3.63   |
| 10-11-2022 09:30  | 19023.56           | 19703.65              | 2170.21                     | 680.09     | 3.88   |
| 10-11-2022 09:45  | 19106.65           | 19669.56              | 2323.04                     | 562.91     | 3.25   |
| 10-11-2022 10:00  | 19010.45           | 19632.74              | 2476.91                     | 622.30     | 3.63   |
| 10-11-2022 10:15  | 19061.56           | 19674.02              | 2592.01                     | 612.47     | 3.59   |
| 10-11-2022 10:30  | 19122.16           | 19760.85              | 2568.12                     | 638.69     | 3.71   |

| Date & Time Block | Total drawal (MWh) | Total injection (MWh) | Exempted RE Injection (MWh) | Loss (MWh) | Loss % |
|-------------------|--------------------|-----------------------|-----------------------------|------------|--------|
| 10-11-2022 10:45  | 19250.18           | 19863.83              | 2644.34                     | 613.65     | 3.56   |
| 10-11-2022 11:00  | 19175.51           | 19833.40              | 2736.85                     | 657.89     | 3.85   |
| 10-11-2022 11:15  | 19099.38           | 19698.14              | 2722.62                     | 598.75     | 3.53   |
| 10-11-2022 11:30  | 18947.72           | 19563.58              | 2743.80                     | 615.86     | 3.66   |
| 10-11-2022 11:45  | 18803.97           | 19441.10              | 2673.06                     | 637.14     | 3.80   |
| 10-11-2022 12:00  | 18628.42           | 19238.62              | 2740.43                     | 610.20     | 3.70   |
| 10-11-2022 12:15  | 18648.34           | 19231.75              | 2666.18                     | 583.40     | 3.52   |
| 10-11-2022 12:30  | 18589.43           | 19181.18              | 2569.44                     | 591.75     | 3.56   |
| 10-11-2022 12:45  | 18526.73           | 19122.37              | 2504.97                     | 595.64     | 3.58   |
| 10-11-2022 13:00  | 18236.27           | 18783.24              | 2478.88                     | 546.97     | 3.35   |
| 10-11-2022 13:15  | 18176.63           | 18758.27              | 2390.82                     | 581.64     | 3.55   |
| 10-11-2022 13:30  | 18163.03           | 18766.99              | 2328.40                     | 603.96     | 3.67   |
| 10-11-2022 13:45  | 18160.56           | 18787.54              | 2322.00                     | 626.99     | 3.81   |
| 10-11-2022 14:00  | 18117.13           | 18647.50              | 2316.85                     | 530.37     | 3.25   |
| 10-11-2022 14:15  | 18326.06           | 18924.41              | 2223.54                     | 598.35     | 3.58   |
| 10-11-2022 14:30  | 18409.78           | 19006.54              | 2137.96                     | 596.76     | 3.54   |
| 10-11-2022 14:45  | 18376.30           | 18976.22              | 2013.68                     | 599.92     | 3.54   |
| 10-11-2022 15:00  | 18266.53           | 18846.14              | 1840.26                     | 579.61     | 3.41   |
| 10-11-2022 15:15  | 18423.71           | 19032.93              | 1620.13                     | 609.22     | 3.50   |
| 10-11-2022 15:30  | 18607.62           | 19228.22              | 1507.09                     | 620.60     | 3.50   |
| 10-11-2022 15:45  | 18847.63           | 19460.76              | 1284.40                     | 613.13     | 3.37   |
| 10-11-2022 16:00  | 18837.59           | 19458.13              | 1080.67                     | 620.54     | 3.38   |
| 10-11-2022 16:15  | 19015.44           | 19662.49              | 867.59                      | 647.06     | 3.44   |
| 10-11-2022 16:30  | 19166.43           | 19862.74              | 665.14                      | 696.30     | 3.63   |
| 10-11-2022 16:45  | 19425.44           | 20133.30              | 461.03                      | 707.86     | 3.60   |
| 10-11-2022 17:00  | 19568.31           | 20259.47              | 300.35                      | 691.17     | 3.46   |
| 10-11-2022 17:15  | 20010.29           | 20745.67              | 186.43                      | 735.38     | 3.58   |
| 10-11-2022 17:30  | 20348.42           | 21094.88              | 118.90                      | 746.46     | 3.56   |
| 10-11-2022 17:45  | 20827.64           | 21601.09              | 83.91                       | 773.45     | 3.59   |
| 10-11-2022 18:00  | 20979.73           | 21724.37              | 87.64                       | 744.64     | 3.44   |
| 10-11-2022 18:15  | 21335.77           | 22068.60              | 100.17                      | 732.83     | 3.34   |
| 10-11-2022 18:30  | 21244.62           | 21974.52              | 111.86                      | 729.90     | 3.34   |
| 10-11-2022 18:45  | 21146.39           | 21870.46              | 135.71                      | 724.07     | 3.33   |
| 10-11-2022 19:00  | 20827.24           | 21543.67              | 149.85                      | 716.43     | 3.35   |
| 10-11-2022 19:15  | 20555.64           | 21275.17              | 153.91                      | 719.53     | 3.41   |
| 10-11-2022 19:30  | 20049.64           | 20774.37              | 152.47                      | 724.73     | 3.51   |
| 10-11-2022 19:45  | 19560.06           | 20317.66              | 146.03                      | 757.59     | 3.76   |
| 10-11-2022 20:00  | 19058.66           | 19753.02              | 145.36                      | 694.35     | 3.54   |
| 10-11-2022 20:15  | 18648.31           | 19352.38              | 149.04                      | 704.07     | 3.67   |
| 10-11-2022 20:30  | 18361.28           | 19046.28              | 151.20                      | 685.00     | 3.63   |
| 10-11-2022 20:45  | 18104.50           | 18784.14              | 157.69                      | 679.63     | 3.65   |
| 10-11-2022 21:00  | 17782.21           | 18435.27              | 156.66                      | 653.06     | 3.57   |

| Date & Time Block | Total drawal (MWh) | Total injection (MWh) | Exempted RE Injection (MWh) | Loss (MWh) | Loss % |
|-------------------|--------------------|-----------------------|-----------------------------|------------|--------|
| 10-11-2022 21:15  | 17598.69           | 18266.42              | 146.02                      | 667.74     | 3.69   |
| 10-11-2022 21:30  | 17325.70           | 17996.67              | 143.28                      | 670.97     | 3.76   |
| 10-11-2022 21:45  | 16956.26           | 17605.43              | 140.08                      | 649.17     | 3.72   |
| 10-11-2022 22:00  | 16913.15           | 17538.42              | 131.89                      | 625.27     | 3.59   |
| 10-11-2022 22:15  | 16883.90           | 17564.74              | 131.92                      | 680.84     | 3.91   |
| 10-11-2022 22:30  | 16640.47           | 17301.34              | 138.67                      | 660.87     | 3.85   |
| 10-11-2022 22:45  | 16361.65           | 17037.63              | 139.26                      | 675.98     | 4.00   |
| 10-11-2022 23:00  | 16129.67           | 16745.41              | 137.55                      | 615.73     | 3.71   |
| 10-11-2022 23:15  | 15955.51           | 16617.46              | 142.27                      | 661.95     | 4.02   |
| 10-11-2022 23:30  | 15824.35           | 16473.47              | 149.60                      | 649.13     | 3.98   |
| 10-11-2022 23:45  | 15740.07           | 16400.47              | 161.20                      | 660.40     | 4.07   |
| 11-11-2022 00:00  | 15700.29           | 16369.46              | 181.67                      | 669.17     | 4.13   |
| 11-11-2022 00:15  | 15655.67           | 16323.86              | 191.89                      | 668.18     | 4.14   |
| 11-11-2022 00:30  | 15547.64           | 16217.41              | 194.12                      | 669.76     | 4.18   |
| 11-11-2022 00:45  | 15524.10           | 16198.55              | 193.67                      | 674.45     | 4.21   |
| 11-11-2022 01:00  | 15398.12           | 16089.50              | 198.31                      | 691.38     | 4.35   |
| 11-11-2022 01:15  | 15398.61           | 16084.07              | 207.20                      | 685.46     | 4.32   |
| 11-11-2022 01:30  | 15362.09           | 16045.54              | 213.09                      | 683.44     | 4.32   |
| 11-11-2022 01:45  | 15198.52           | 15908.19              | 221.39                      | 709.67     | 4.52   |
| 11-11-2022 02:00  | 15073.87           | 15760.87              | 230.81                      | 687.00     | 4.42   |
| 11-11-2022 02:15  | 15160.48           | 15857.66              | 238.02                      | 697.18     | 4.46   |
| 11-11-2022 02:30  | 15115.90           | 15791.46              | 240.00                      | 675.56     | 4.34   |
| 11-11-2022 02:45  | 15070.50           | 15753.67              | 240.61                      | 683.16     | 4.40   |
| 11-11-2022 03:00  | 15037.66           | 15705.81              | 241.63                      | 668.15     | 4.32   |
| 11-11-2022 03:15  | 15071.28           | 15746.89              | 235.52                      | 675.61     | 4.36   |
| 11-11-2022 03:30  | 15042.21           | 15740.34              | 228.27                      | 698.13     | 4.50   |
| 11-11-2022 03:45  | 14938.83           | 15612.57              | 223.66                      | 673.73     | 4.38   |
| 11-11-2022 04:00  | 14986.72           | 15682.24              | 215.40                      | 695.52     | 4.50   |
| 11-11-2022 04:15  | 15209.28           | 15909.95              | 203.17                      | 700.67     | 4.46   |
| 11-11-2022 04:30  | 15374.63           | 16043.73              | 189.15                      | 669.10     | 4.22   |
| 11-11-2022 04:45  | 15601.62           | 16263.25              | 183.96                      | 661.63     | 4.11   |
| 11-11-2022 05:00  | 16026.54           | 16711.26              | 190.86                      | 684.72     | 4.14   |
| 11-11-2022 05:15  | 16536.34           | 17239.48              | 206.84                      | 703.14     | 4.13   |
| 11-11-2022 05:30  | 17145.65           | 17879.89              | 219.83                      | 734.24     | 4.16   |
| 11-11-2022 05:45  | 17595.15           | 18347.94              | 232.13                      | 752.79     | 4.16   |
| 11-11-2022 06:00  | 18033.13           | 18730.36              | 247.78                      | 697.23     | 3.77   |
| 11-11-2022 06:15  | 18940.74           | 19684.62              | 261.97                      | 743.88     | 3.83   |
| 11-11-2022 06:30  | 19321.24           | 20094.59              | 285.13                      | 773.34     | 3.90   |
| 11-11-2022 06:45  | 19473.68           | 20258.03              | 310.64                      | 784.35     | 3.93   |
| 11-11-2022 07:00  | 19355.63           | 20116.02              | 340.63                      | 760.40     | 3.85   |
| 11-11-2022 07:15  | 19411.96           | 20157.62              | 408.54                      | 745.65     | 3.78   |
| 11-11-2022 07:30  | 19314.07           | 20060.11              | 515.01                      | 746.04     | 3.82   |

| Date & Time Block | Total drawal (MWh) | Total injection (MWh) | Exempted RE Injection (MWh) | Loss (MWh) | Loss % |
|-------------------|--------------------|-----------------------|-----------------------------|------------|--------|
| 11-11-2022 07:45  | 18985.23           | 19709.76              | 619.12                      | 724.53     | 3.80   |
| 11-11-2022 08:00  | 18549.45           | 19243.47              | 725.17                      | 694.02     | 3.75   |
| 11-11-2022 08:15  | 18251.86           | 18978.60              | 833.41                      | 726.74     | 4.01   |
| 11-11-2022 08:30  | 18102.40           | 18821.97              | 939.58                      | 719.57     | 4.02   |
| 11-11-2022 08:45  | 18088.34           | 18796.88              | 1081.48                     | 708.54     | 4.00   |
| 11-11-2022 09:00  | 18349.14           | 18984.38              | 1198.71                     | 635.24     | 3.57   |
| 11-11-2022 09:15  | 18457.77           | 19131.10              | 1345.91                     | 673.33     | 3.79   |
| 11-11-2022 09:30  | 18752.55           | 19450.16              | 1477.71                     | 697.61     | 3.88   |
| 11-11-2022 09:45  | 18813.85           | 19482.21              | 1605.43                     | 668.36     | 3.74   |
| 11-11-2022 10:00  | 18656.40           | 19333.24              | 1702.63                     | 676.85     | 3.84   |
| 11-11-2022 10:15  | 18827.35           | 19484.32              | 1804.05                     | 656.97     | 3.72   |
| 11-11-2022 10:30  | 18802.58           | 19522.65              | 1865.23                     | 720.07     | 4.08   |
| 11-11-2022 10:45  | 18802.24           | 19505.60              | 2031.45                     | 703.36     | 4.03   |
| 11-11-2022 11:00  | 18669.08           | 19404.85              | 2133.65                     | 735.77     | 4.26   |
| 11-11-2022 11:15  | 18744.24           | 19443.12              | 2139.11                     | 698.88     | 4.04   |
| 11-11-2022 11:30  | 18586.20           | 19342.87              | 2132.26                     | 756.67     | 4.40   |
| 11-11-2022 11:45  | 18463.42           | 19197.45              | 2184.24                     | 734.03     | 4.31   |
| 11-11-2022 12:00  | 18302.86           | 19013.32              | 2214.96                     | 710.46     | 4.23   |
| 11-11-2022 12:15  | 18406.95           | 19121.61              | 2217.66                     | 714.66     | 4.23   |
| 11-11-2022 12:30  | 18242.46           | 18969.61              | 2288.72                     | 727.14     | 4.36   |
| 11-11-2022 12:45  | 18146.26           | 18857.95              | 2319.47                     | 711.69     | 4.30   |
| 11-11-2022 13:00  | 17823.65           | 18501.72              | 2298.14                     | 678.07     | 4.18   |
| 11-11-2022 13:15  | 17805.85           | 18536.42              | 2263.30                     | 730.57     | 4.49   |
| 11-11-2022 13:30  | 17867.61           | 18587.36              | 2234.25                     | 719.75     | 4.40   |
| 11-11-2022 13:45  | 17874.95           | 18607.22              | 2206.85                     | 732.27     | 4.46   |
| 11-11-2022 14:00  | 17882.08           | 18495.62              | 2214.42                     | 613.54     | 3.77   |
| 11-11-2022 14:15  | 17967.94           | 18613.58              | 2112.08                     | 645.64     | 3.91   |
| 11-11-2022 14:30  | 18185.13           | 18844.45              | 1959.82                     | 659.32     | 3.90   |
| 11-11-2022 14:45  | 18201.70           | 18889.17              | 1829.14                     | 687.47     | 4.03   |
| 11-11-2022 15:00  | 18163.05           | 18801.19              | 1660.33                     | 638.14     | 3.72   |
| 11-11-2022 15:15  | 18213.76           | 18881.41              | 1496.62                     | 667.65     | 3.84   |
| 11-11-2022 15:30  | 18280.31           | 18951.49              | 1332.18                     | 671.18     | 3.81   |
| 11-11-2022 15:45  | 18447.55           | 19117.99              | 1179.82                     | 670.44     | 3.74   |
| 11-11-2022 16:00  | 18511.82           | 19177.37              | 1023.31                     | 665.56     | 3.67   |
| 11-11-2022 16:15  | 18667.15           | 19365.36              | 871.18                      | 698.21     | 3.78   |
| 11-11-2022 16:30  | 18802.76           | 19463.45              | 715.69                      | 660.69     | 3.52   |
| 11-11-2022 16:45  | 18999.36           | 19733.68              | 566.85                      | 734.32     | 3.83   |
| 11-11-2022 17:00  | 19140.69           | 19876.61              | 431.87                      | 735.92     | 3.78   |
| 11-11-2022 17:15  | 19486.24           | 20239.49              | 335.31                      | 753.25     | 3.78   |
| 11-11-2022 17:30  | 19794.28           | 20518.44              | 271.68                      | 724.17     | 3.58   |
| 11-11-2022 17:45  | 20254.01           | 20995.41              | 247.34                      | 741.41     | 3.57   |
| 11-11-2022 18:00  | 20520.54           | 21244.17              | 247.38                      | 723.63     | 3.45   |

| Date & Time Block | Total drawal (MWh) | Total injection (MWh) | Exempted RE Injection (MWh) | Loss (MWh) | Loss % |
|-------------------|--------------------|-----------------------|-----------------------------|------------|--------|
| 11-11-2022 18:15  | 20849.90           | 21599.58              | 253.10                      | 749.68     | 3.51   |
| 11-11-2022 18:30  | 20799.16           | 21556.22              | 258.22                      | 757.06     | 3.55   |
| 11-11-2022 18:45  | 20710.44           | 21388.43              | 274.26                      | 677.99     | 3.21   |
| 11-11-2022 19:00  | 20331.39           | 21018.61              | 284.41                      | 687.22     | 3.31   |
| 11-11-2022 19:15  | 19974.36           | 20674.21              | 300.42                      | 699.85     | 3.44   |
| 11-11-2022 19:30  | 19492.68           | 20170.89              | 309.51                      | 678.20     | 3.41   |
| 11-11-2022 19:45  | 18965.15           | 19677.61              | 309.53                      | 712.46     | 3.68   |
| 11-11-2022 20:00  | 18507.18           | 19179.40              | 301.52                      | 672.23     | 3.56   |
| 11-11-2022 20:15  | 18220.72           | 18898.83              | 299.71                      | 678.11     | 3.65   |
| 11-11-2022 20:30  | 17928.33           | 18584.26              | 300.43                      | 655.94     | 3.59   |
| 11-11-2022 20:45  | 17696.56           | 18324.56              | 300.51                      | 627.99     | 3.48   |
| 11-11-2022 21:00  | 17380.09           | 17991.56              | 307.45                      | 611.47     | 3.46   |
| 11-11-2022 21:15  | 17096.04           | 17708.40              | 321.37                      | 612.36     | 3.52   |
| 11-11-2022 21:30  | 16698.91           | 17307.14              | 332.10                      | 608.23     | 3.58   |
| 11-11-2022 21:45  | 16347.56           | 16952.07              | 347.77                      | 604.51     | 3.64   |
| 11-11-2022 22:00  | 16294.25           | 16877.89              | 359.75                      | 583.64     | 3.53   |
| 11-11-2022 22:15  | 16305.17           | 16924.57              | 370.12                      | 619.40     | 3.74   |
| 11-11-2022 22:30  | 16291.62           | 16913.54              | 378.57                      | 621.92     | 3.76   |
| 11-11-2022 22:45  | 16149.39           | 16754.55              | 397.62                      | 605.17     | 3.70   |
| 11-11-2022 23:00  | 15881.73           | 16465.43              | 405.14                      | 583.70     | 3.63   |
| 11-11-2022 23:15  | 15735.75           | 16329.05              | 381.67                      | 593.30     | 3.72   |
| 11-11-2022 23:30  | 15561.64           | 16158.69              | 362.58                      | 597.05     | 3.78   |
| 11-11-2022 23:45  | 15399.37           | 16022.33              | 362.40                      | 622.96     | 3.98   |
| 12-11-2022 00:00  | 15329.76           | 15945.96              | 363.98                      | 616.20     | 3.95   |
| 12-11-2022 00:15  | 15291.69           | 15935.16              | 360.39                      | 643.47     | 4.13   |
| 12-11-2022 00:30  | 15221.87           | 15856.82              | 361.03                      | 634.95     | 4.10   |
| 12-11-2022 00:45  | 15157.04           | 15794.29              | 354.58                      | 637.25     | 4.13   |
| 12-11-2022 01:00  | 14902.25           | 15577.76              | 331.78                      | 675.51     | 4.43   |
| 12-11-2022 01:15  | 14847.99           | 15510.61              | 327.68                      | 662.62     | 4.36   |
| 12-11-2022 01:30  | 14579.36           | 15230.13              | 334.33                      | 650.77     | 4.37   |
| 12-11-2022 01:45  | 14445.21           | 15098.82              | 349.44                      | 653.61     | 4.43   |
| 12-11-2022 02:00  | 14435.08           | 15100.90              | 353.79                      | 665.82     | 4.51   |
| 12-11-2022 02:15  | 14559.80           | 15212.52              | 341.45                      | 652.72     | 4.39   |
| 12-11-2022 02:30  | 14503.38           | 15155.85              | 329.70                      | 652.47     | 4.40   |
| 12-11-2022 02:45  | 14455.34           | 15104.77              | 328.24                      | 649.43     | 4.40   |
| 12-11-2022 03:00  | 14398.93           | 15039.58              | 319.58                      | 640.65     | 4.35   |
| 12-11-2022 03:15  | 14379.58           | 15037.79              | 302.07                      | 658.21     | 4.47   |
| 12-11-2022 03:30  | 14250.26           | 14889.57              | 283.06                      | 639.30     | 4.38   |
| 12-11-2022 03:45  | 14278.48           | 14916.34              | 263.34                      | 637.86     | 4.35   |
| 12-11-2022 04:00  | 14328.01           | 14979.53              | 247.34                      | 651.52     | 4.42   |
| 12-11-2022 04:15  | 14592.34           | 15256.27              | 241.17                      | 663.92     | 4.42   |
| 12-11-2022 04:30  | 14832.13           | 15501.74              | 232.52                      | 669.61     | 4.39   |

| Date & Time Block | Total drawal (MWh) | Total injection (MWh) | Exempted RE Injection (MWh) | Loss (MWh) | Loss % |
|-------------------|--------------------|-----------------------|-----------------------------|------------|--------|
| 12-11-2022 04:45  | 15004.37           | 15656.93              | 220.17                      | 652.57     | 4.23   |
| 12-11-2022 05:00  | 15212.93           | 15875.65              | 208.19                      | 662.73     | 4.23   |
| 12-11-2022 05:15  | 15863.02           | 16519.86              | 207.16                      | 656.84     | 4.03   |
| 12-11-2022 05:30  | 16485.61           | 17194.98              | 215.92                      | 709.37     | 4.18   |
| 12-11-2022 05:45  | 16943.00           | 17645.09              | 226.04                      | 702.09     | 4.03   |
| 12-11-2022 06:00  | 17405.78           | 18101.99              | 233.36                      | 696.21     | 3.90   |
| 12-11-2022 06:15  | 18407.91           | 19153.79              | 240.77                      | 745.87     | 3.94   |
| 12-11-2022 06:30  | 18819.37           | 19553.96              | 254.49                      | 734.59     | 3.81   |
| 12-11-2022 06:45  | 18851.35           | 19600.50              | 284.94                      | 749.16     | 3.88   |
| 12-11-2022 07:00  | 19004.58           | 19708.76              | 334.47                      | 704.18     | 3.63   |
| 12-11-2022 07:15  | 19301.77           | 20025.19              | 426.67                      | 723.41     | 3.69   |
| 12-11-2022 07:30  | 19167.43           | 19875.55              | 551.04                      | 708.12     | 3.66   |
| 12-11-2022 07:45  | 18699.95           | 19352.48              | 665.04                      | 652.54     | 3.49   |
| 12-11-2022 08:00  | 18369.97           | 19028.91              | 814.67                      | 658.94     | 3.62   |
| 12-11-2022 08:15  | 18295.59           | 18949.07              | 1006.67                     | 653.48     | 3.64   |
| 12-11-2022 08:30  | 18103.23           | 18716.84              | 1149.91                     | 613.61     | 3.49   |
| 12-11-2022 08:45  | 18001.52           | 18604.73              | 1302.99                     | 603.20     | 3.49   |
| 12-11-2022 09:00  | 18194.19           | 18787.08              | 1432.88                     | 592.89     | 3.42   |
| 12-11-2022 09:15  | 18323.12           | 18942.86              | 1626.06                     | 619.74     | 3.58   |
| 12-11-2022 09:30  | 18448.56           | 19062.67              | 1837.18                     | 614.11     | 3.57   |
| 12-11-2022 09:45  | 18522.22           | 19119.21              | 1949.02                     | 596.99     | 3.48   |
| 12-11-2022 10:00  | 18411.64           | 19028.18              | 2032.61                     | 616.54     | 3.63   |
| 12-11-2022 10:15  | 18508.96           | 19101.48              | 2113.17                     | 592.52     | 3.49   |
| 12-11-2022 10:30  | 18572.45           | 19208.63              | 2067.79                     | 636.18     | 3.71   |
| 12-11-2022 10:45  | 18525.28           | 19199.17              | 2085.97                     | 673.89     | 3.94   |
| 12-11-2022 11:00  | 18512.11           | 19184.93              | 2155.42                     | 672.82     | 3.95   |
| 12-11-2022 11:15  | 18525.87           | 19200.74              | 2270.58                     | 674.87     | 3.99   |
| 12-11-2022 11:30  | 18382.26           | 19043.34              | 2372.45                     | 661.09     | 3.97   |
| 12-11-2022 11:45  | 18176.16           | 18844.56              | 2346.44                     | 668.40     | 4.05   |
| 12-11-2022 12:00  | 18034.64           | 18667.92              | 2283.42                     | 633.28     | 3.87   |
| 12-11-2022 12:15  | 18122.94           | 18766.09              | 2274.82                     | 643.16     | 3.90   |
| 12-11-2022 12:30  | 17948.91           | 18576.75              | 2260.30                     | 627.84     | 3.85   |
| 12-11-2022 12:45  | 17880.71           | 18504.37              | 2204.23                     | 623.67     | 3.83   |
| 12-11-2022 13:00  | 17527.13           | 18129.59              | 2188.22                     | 602.45     | 3.78   |
| 12-11-2022 13:15  | 17512.50           | 18140.90              | 2229.64                     | 628.40     | 3.95   |
| 12-11-2022 13:30  | 17659.54           | 18286.52              | 2291.84                     | 626.98     | 3.92   |
| 12-11-2022 13:45  | 17770.19           | 18393.80              | 2067.07                     | 623.61     | 3.82   |
| 12-11-2022 14:00  | 17722.84           | 18317.81              | 1947.80                     | 594.97     | 3.63   |
| 12-11-2022 14:15  | 17984.54           | 18596.74              | 1920.24                     | 612.20     | 3.67   |
| 12-11-2022 14:30  | 18057.13           | 18664.88              | 1762.77                     | 607.75     | 3.60   |
| 12-11-2022 14:45  | 18037.30           | 18676.49              | 1655.99                     | 639.19     | 3.76   |
| 12-11-2022 15:00  | 17973.72           | 18627.57              | 1624.75                     | 653.85     | 3.85   |

| Date & Time Block | Total drawal (MWh) | Total injection (MWh) | Exempted RE Injection (MWh) | Loss (MWh) | Loss % |
|-------------------|--------------------|-----------------------|-----------------------------|------------|--------|
| 12-11-2022 15:15  | 18107.22           | 18742.56              | 1536.31                     | 635.34     | 3.69   |
| 12-11-2022 15:30  | 18178.74           | 18799.57              | 1316.58                     | 620.83     | 3.55   |
| 12-11-2022 15:45  | 18251.95           | 18912.18              | 1150.54                     | 660.23     | 3.72   |
| 12-11-2022 16:00  | 18128.84           | 18784.78              | 968.35                      | 655.94     | 3.68   |
| 12-11-2022 16:15  | 18247.70           | 18950.82              | 769.43                      | 703.12     | 3.87   |
| 12-11-2022 16:30  | 18538.47           | 19253.77              | 609.71                      | 715.30     | 3.84   |
| 12-11-2022 16:45  | 18875.03           | 19628.44              | 475.17                      | 753.42     | 3.93   |
| 12-11-2022 17:00  | 18957.91           | 19713.36              | 313.99                      | 755.45     | 3.89   |
| 12-11-2022 17:15  | 19311.03           | 20045.06              | 196.61                      | 734.03     | 3.70   |
| 12-11-2022 17:30  | 19718.42           | 20465.16              | 131.27                      | 746.73     | 3.67   |
| 12-11-2022 17:45  | 20218.11           | 20964.83              | 107.14                      | 746.72     | 3.58   |
| 12-11-2022 18:00  | 20311.83           | 21050.12              | 111.87                      | 738.29     | 3.53   |
| 12-11-2022 18:15  | 20674.20           | 21400.09              | 122.90                      | 725.88     | 3.41   |
| 12-11-2022 18:30  | 20736.46           | 21451.24              | 135.85                      | 714.78     | 3.35   |
| 12-11-2022 18:45  | 20616.18           | 21326.66              | 148.43                      | 710.47     | 3.35   |
| 12-11-2022 19:00  | 20411.89           | 21083.58              | 155.37                      | 671.69     | 3.21   |
| 12-11-2022 19:15  | 20191.49           | 20859.37              | 147.19                      | 667.88     | 3.22   |
| 12-11-2022 19:30  | 19892.24           | 20573.75              | 145.81                      | 681.51     | 3.34   |
| 12-11-2022 19:45  | 19417.03           | 20052.62              | 137.85                      | 635.59     | 3.19   |
| 12-11-2022 20:00  | 18867.42           | 19517.87              | 124.32                      | 650.45     | 3.35   |
| 12-11-2022 20:15  | 18333.45           | 18972.61              | 110.72                      | 639.15     | 3.39   |
| 12-11-2022 20:30  | 17986.20           | 18637.81              | 101.08                      | 651.61     | 3.52   |
| 12-11-2022 20:45  | 17587.36           | 18227.68              | 87.84                       | 640.32     | 3.53   |
| 12-11-2022 21:00  | 17279.62           | 17891.10              | 78.11                       | 611.48     | 3.43   |
| 12-11-2022 21:15  | 17067.96           | 17668.15              | 73.11                       | 600.19     | 3.41   |
| 12-11-2022 21:30  | 16776.17           | 17381.73              | 74.66                       | 605.55     | 3.50   |
| 12-11-2022 21:45  | 16513.30           | 17161.41              | 78.20                       | 648.11     | 3.79   |
| 12-11-2022 22:00  | 16565.93           | 17202.38              | 82.06                       | 636.45     | 3.72   |
| 12-11-2022 22:15  | 16589.52           | 17254.73              | 84.37                       | 665.21     | 3.87   |
| 12-11-2022 22:30  | 16508.53           | 17162.72              | 81.90                       | 654.19     | 3.83   |
| 12-11-2022 22:45  | 16292.00           | 16911.48              | 82.65                       | 619.48     | 3.68   |
| 12-11-2022 23:00  | 15944.90           | 16552.14              | 78.08                       | 607.24     | 3.69   |
| 12-11-2022 23:15  | 15675.41           | 16312.49              | 77.17                       | 637.08     | 3.92   |
| 12-11-2022 23:30  | 15569.92           | 16200.98              | 71.10                       | 631.05     | 3.91   |
| 12-11-2022 23:45  | 15443.28           | 16082.06              | 67.52                       | 638.78     | 3.99   |
| 13-11-2022 00:00  | 15420.03           | 16063.80              | 70.21                       | 643.76     | 4.03   |
| 13-11-2022 00:15  | 15192.79           | 15837.43              | 77.73                       | 644.64     | 4.09   |
| 13-11-2022 00:30  | 15157.31           | 15809.17              | 85.64                       | 651.85     | 4.15   |
| 13-11-2022 00:45  | 15043.31           | 15707.10              | 96.71                       | 663.80     | 4.25   |
| 13-11-2022 01:00  | 14895.30           | 15579.95              | 106.53                      | 684.65     | 4.42   |
| 13-11-2022 01:15  | 14850.98           | 15494.09              | 117.96                      | 643.11     | 4.18   |
| 13-11-2022 01:30  | 14876.66           | 15518.64              | 137.78                      | 641.98     | 4.17   |

| Date & Time Block | Total drawal (MWh) | Total injection (MWh) | Exempted RE Injection (MWh) | Loss (MWh) | Loss % |
|-------------------|--------------------|-----------------------|-----------------------------|------------|--------|
| 13-11-2022 01:45  | 14727.23           | 15388.88              | 149.54                      | 661.65     | 4.34   |
| 13-11-2022 02:00  | 14674.23           | 15315.26              | 154.64                      | 641.02     | 4.23   |
| 13-11-2022 02:15  | 14703.74           | 15343.67              | 162.20                      | 639.93     | 4.22   |
| 13-11-2022 02:30  | 14584.55           | 15210.76              | 161.57                      | 626.21     | 4.16   |
| 13-11-2022 02:45  | 14505.45           | 15153.78              | 154.70                      | 648.33     | 4.32   |
| 13-11-2022 03:00  | 14325.71           | 14982.75              | 147.82                      | 657.03     | 4.43   |
| 13-11-2022 03:15  | 14251.75           | 14916.16              | 141.51                      | 664.41     | 4.50   |
| 13-11-2022 03:30  | 14254.92           | 14912.39              | 132.26                      | 657.47     | 4.45   |
| 13-11-2022 03:45  | 14243.12           | 14902.82              | 123.02                      | 659.70     | 4.46   |
| 13-11-2022 04:00  | 14238.56           | 14915.00              | 118.74                      | 676.43     | 4.57   |
| 13-11-2022 04:15  | 14445.05           | 15122.57              | 113.77                      | 677.51     | 4.51   |
| 13-11-2022 04:30  | 14692.34           | 15361.73              | 111.38                      | 669.38     | 4.39   |
| 13-11-2022 04:45  | 14970.99           | 15626.41              | 117.64                      | 655.43     | 4.23   |
| 13-11-2022 05:00  | 15174.77           | 15854.94              | 127.58                      | 680.17     | 4.32   |
| 13-11-2022 05:15  | 15577.64           | 16283.24              | 131.15                      | 705.59     | 4.37   |
| 13-11-2022 05:30  | 16162.24           | 16879.48              | 120.44                      | 717.24     | 4.28   |
| 13-11-2022 05:45  | 16630.53           | 17367.19              | 113.61                      | 736.66     | 4.27   |
| 13-11-2022 06:00  | 17002.01           | 17688.96              | 110.91                      | 686.94     | 3.91   |
| 13-11-2022 06:15  | 17825.26           | 18568.07              | 110.94                      | 742.81     | 4.02   |
| 13-11-2022 06:30  | 18166.67           | 18924.20              | 112.52                      | 757.53     | 4.03   |
| 13-11-2022 06:45  | 18379.45           | 19122.43              | 124.74                      | 742.98     | 3.91   |
| 13-11-2022 07:00  | 18497.30           | 19209.04              | 171.16                      | 711.74     | 3.74   |
| 13-11-2022 07:15  | 18603.11           | 19325.71              | 261.36                      | 722.60     | 3.79   |
| 13-11-2022 07:30  | 18561.57           | 19307.69              | 375.31                      | 746.12     | 3.94   |
| 13-11-2022 07:45  | 18398.28           | 19098.70              | 544.19                      | 700.42     | 3.77   |
| 13-11-2022 08:00  | 18235.20           | 18936.55              | 714.06                      | 701.35     | 3.85   |
| 13-11-2022 08:15  | 18290.97           | 18916.08              | 926.12                      | 625.12     | 3.47   |
| 13-11-2022 08:30  | 17995.39           | 18586.03              | 1139.27                     | 590.64     | 3.39   |
| 13-11-2022 08:45  | 17885.13           | 18436.29              | 1334.44                     | 551.16     | 3.22   |
| 13-11-2022 09:00  | 17869.71           | 18407.71              | 1513.55                     | 538.00     | 3.18   |
| 13-11-2022 09:15  | 17971.32           | 18536.13              | 1698.34                     | 564.81     | 3.35   |
| 13-11-2022 09:30  | 18093.16           | 18655.89              | 1853.18                     | 562.73     | 3.35   |
| 13-11-2022 09:45  | 18231.23           | 18807.72              | 2009.86                     | 576.49     | 3.43   |
| 13-11-2022 10:00  | 18115.68           | 18683.40              | 2072.71                     | 567.72     | 3.42   |
| 13-11-2022 10:15  | 18208.40           | 18787.39              | 2206.93                     | 578.99     | 3.49   |
| 13-11-2022 10:30  | 18314.97           | 18961.31              | 2292.78                     | 646.34     | 3.88   |
| 13-11-2022 10:45  | 18283.14           | 18934.41              | 2428.06                     | 651.28     | 3.95   |
| 13-11-2022 11:00  | 18211.23           | 18853.04              | 2432.36                     | 641.82     | 3.91   |
| 13-11-2022 11:15  | 18122.71           | 18741.21              | 2365.27                     | 618.50     | 3.78   |
| 13-11-2022 11:30  | 18039.11           | 18660.42              | 2344.10                     | 621.31     | 3.81   |
| 13-11-2022 11:45  | 17950.12           | 18590.54              | 2451.81                     | 640.43     | 3.97   |
| 13-11-2022 12:00  | 17807.47           | 18420.40              | 2597.55                     | 612.93     | 3.87   |



| Date & Time Block | Total drawal (MWh) | Total injection (MWh) | Exempted RE Injection (MWh) | Loss (MWh) | Loss % |
|-------------------|--------------------|-----------------------|-----------------------------|------------|--------|
| 13-11-2022 12:15  | 17757.80           | 18356.14              | 2635.38                     | 598.34     | 3.81   |
| 13-11-2022 12:30  | 17670.40           | 18255.16              | 2516.53                     | 584.76     | 3.72   |
| 13-11-2022 12:45  | 17576.65           | 18154.21              | 2401.41                     | 577.56     | 3.67   |
| 13-11-2022 13:00  | 17276.73           | 17866.16              | 2279.02                     | 589.43     | 3.78   |
| 13-11-2022 13:15  | 17158.22           | 17779.69              | 2128.48                     | 621.47     | 3.97   |
| 13-11-2022 13:30  | 17157.67           | 17743.03              | 2127.90                     | 585.35     | 3.75   |
| 13-11-2022 13:45  | 17144.67           | 17756.01              | 2107.75                     | 611.34     | 3.91   |
| 13-11-2022 14:00  | 17113.30           | 17629.60              | 2220.55                     | 516.30     | 3.35   |
| 13-11-2022 14:15  | 17174.16           | 17719.59              | 2029.00                     | 545.43     | 3.48   |
| 13-11-2022 14:30  | 17118.91           | 17649.71              | 1874.69                     | 530.80     | 3.36   |
| 13-11-2022 14:45  | 17143.97           | 17698.63              | 1860.49                     | 554.67     | 3.50   |
| 13-11-2022 15:00  | 17129.80           | 17679.96              | 1799.43                     | 550.16     | 3.46   |
| 13-11-2022 15:15  | 17134.68           | 17727.46              | 1631.25                     | 592.78     | 3.68   |
| 13-11-2022 15:30  | 17099.15           | 17705.71              | 1503.82                     | 606.56     | 3.74   |
| 13-11-2022 15:45  | 17165.32           | 17782.59              | 1337.38                     | 617.27     | 3.75   |
| 13-11-2022 16:00  | 17122.36           | 17737.28              | 1138.62                     | 614.91     | 3.70   |
| 13-11-2022 16:15  | 17401.37           | 18004.81              | 913.78                      | 603.44     | 3.53   |
| 13-11-2022 16:30  | 17585.33           | 18186.68              | 638.66                      | 601.35     | 3.43   |
| 13-11-2022 16:45  | 17622.98           | 18252.46              | 468.61                      | 629.48     | 3.54   |
| 13-11-2022 17:00  | 17752.44           | 18379.71              | 312.04                      | 627.27     | 3.47   |
| 13-11-2022 17:15  | 18070.89           | 18681.09              | 195.52                      | 610.20     | 3.30   |
| 13-11-2022 17:30  | 18442.63           | 19056.81              | 100.02                      | 614.18     | 3.24   |
| 13-11-2022 17:45  | 18922.25           | 19603.17              | 71.59                       | 680.92     | 3.49   |
| 13-11-2022 18:00  | 19255.85           | 19888.72              | 78.15                       | 632.88     | 3.19   |
| 13-11-2022 18:15  | 19596.10           | 20226.30              | 90.22                       | 630.20     | 3.13   |
| 13-11-2022 18:30  | 19545.19           | 20175.58              | 97.37                       | 630.39     | 3.14   |
| 13-11-2022 18:45  | 19538.71           | 20140.22              | 104.41                      | 601.51     | 3.00   |
| 13-11-2022 19:00  | 19256.94           | 19852.69              | 109.43                      | 595.75     | 3.02   |
| 13-11-2022 19:15  | 19039.43           | 19630.44              | 108.92                      | 591.01     | 3.03   |
| 13-11-2022 19:30  | 18744.78           | 19353.37              | 100.27                      | 608.60     | 3.16   |
| 13-11-2022 19:45  | 18287.31           | 18851.65              | 93.58                       | 564.34     | 3.01   |
| 13-11-2022 20:00  | 17780.27           | 18341.34              | 84.52                       | 561.07     | 3.07   |
| 13-11-2022 20:15  | 17459.70           | 18020.52              | 85.08                       | 560.82     | 3.13   |
| 13-11-2022 20:30  | 17091.39           | 17640.38              | 96.78                       | 548.99     | 3.13   |
| 13-11-2022 20:45  | 16706.37           | 17215.24              | 105.67                      | 508.87     | 2.97   |
| 13-11-2022 21:00  | 16444.85           | 16950.32              | 109.93                      | 505.47     | 3.00   |
| 13-11-2022 21:15  | 16199.75           | 16691.23              | 112.52                      | 491.48     | 2.96   |
| 13-11-2022 21:30  | 15892.64           | 16386.13              | 109.76                      | 493.49     | 3.03   |
| 13-11-2022 21:45  | 15628.61           | 16169.38              | 107.71                      | 540.78     | 3.37   |
| 13-11-2022 22:00  | 15644.27           | 16131.15              | 98.78                       | 486.88     | 3.04   |
| 13-11-2022 22:15  | 15759.27           | 16298.45              | 90.19                       | 539.18     | 3.33   |
| 13-11-2022 22:30  | 15527.40           | 16045.55              | 85.18                       | 518.16     | 3.25   |

| Date & Time Block       | Total drawal (MWh) | Total injection (MWh) | Exempted RE Injection (MWh) | Loss (MWh)    | Loss % |
|-------------------------|--------------------|-----------------------|-----------------------------|---------------|--------|
| <b>13-11-2022 22:45</b> | 15311.49           | 15834.28              | 81.37                       | 522.79        | 3.32   |
| <b>13-11-2022 23:00</b> | 15115.31           | 15628.64              | 79.02                       | 513.33        | 3.30   |
| <b>13-11-2022 23:15</b> | 15014.34           | 15545.64              | 74.87                       | 531.30        | 3.43   |
| <b>13-11-2022 23:30</b> | 14844.02           | 15379.17              | 75.72                       | 535.15        | 3.50   |
| <b>13-11-2022 23:45</b> | 14698.49           | 15246.48              | 76.98                       | 547.99        | 3.61   |
| <b>Total ( in MU)</b>   | <b>11886.42</b>    | <b>12346.08</b>       | <b>562.94</b>               | <b>459.66</b> |        |