

Bus

| | ID | Zone | kV Base | V sol [pu] | Ang sol [deg] | Vmin [pu] | Vmax [pu] | P Gen [MW] |
|----|---------|------|---------|---------------|------------------|--------------|--------------|---------------|
| 1 | B1 | 0 | 345.00 | 1.001 | -44.7 | 0.900 | 1.100 | 0.00 |
| 2 | B10 | 0 | 345.00 | 0.897 | -14.6 | 0.900 | 1.100 | 0.00 |
| 3 | B11 | 0 | 345.00 | 0.885 | -14.8 | 0.900 | 1.100 | 0.00 |
| 4 | B12 | 0 | 138.00 | 0.866 | -15.6 | 0.900 | 1.100 | 0.00 |
| 5 | B13 | 0 | 345.00 | 0.891 | -16.4 | 0.900 | 1.100 | 0.00 |
| 6 | B14 | 0 | 345.00 | 0.887 | -20.7 | 0.900 | 1.100 | 0.00 |
| 7 | B15 | 0 | 345.00 | 0.906 | -26.2 | 0.900 | 1.100 | 0.00 |
| 8 | B16 | 0 | 345.00 | 0.933 | -26.5 | 0.900 | 1.100 | 0.00 |
| 9 | B17 | 0 | 345.00 | 0.942 | -28.1 | 0.900 | 1.100 | 0.00 |
| 10 | B18 | 0 | 345.00 | 0.939 | -28.9 | 0.900 | 1.100 | 0.00 |
| 11 | B19 | 0 | 345.00 | 0.962 | -14.1 | 0.900 | 1.100 | 0.00 |
| 12 | B2 | 0 | 345.00 | 0.989 | -29.7 | 0.900 | 1.100 | 0.00 |
| 13 | B20 | 0 | 230.00 | 0.965 | -10.9 | 0.900 | 1.100 | 0.00 |
| 14 | B21 | 0 | 345.00 | 0.944 | -27.4 | 0.900 | 1.100 | 0.00 |
| 15 | B22 | 0 | 345.00 | 0.972 | -25.8 | 0.900 | 1.100 | 0.00 |
| 16 | B23 | 0 | 345.00 | 0.939 | -28.5 | 0.900 | 1.100 | 0.00 |
| 17 | B24 | 0 | 345.00 | 0.938 | -27.9 | 0.900 | 1.100 | 0.00 |
| 18 | B25 | 0 | 345.00 | 1.008 | -28.0 | 0.900 | 1.100 | 0.00 |
| 19 | B26 | 0 | 345.00 | 0.991 | -27.8 | 0.900 | 1.100 | 0.00 |
| 20 | B27 | 0 | 345.00 | 0.962 | -29.2 | 0.900 | 1.100 | 0.00 |
| 21 | B28 | 0 | 345.00 | 1.005 | -24.0 | 0.900 | 1.100 | 0.00 |
| 22 | B29 | 0 | 345.00 | 1.011 | -21.0 | 0.900 | 1.100 | 0.00 |
| 23 | B3 | 0 | 345.00 | 0.939 | -28.9 | 0.900 | 1.100 | 0.00 |
| 24 | B30 | 0 | 16.50 | 1.048 | -27.3 | 0.900 | 1.100 | 250.00 |
| 25 | B31 | 0 | 16.50 | 0.982 | 0.0 | 0.900 | 1.100 | 898.94 |
| 26 | B32 | 0 | 16.50 | 0.983 | -6.3 | 0.900 | 1.100 | 650.00 |
| 27 | B33 | 0 | 16.50 | 0.997 | -8.8 | 0.900 | 1.100 | 632.00 |
| 28 | B34 | 0 | 16.50 | 1.012 | -0.2 | 0.900 | 1.100 | 1016.00 |
| 29 | B35 | 0 | 16.50 | 1.049 | -20.8 | 0.900 | 1.100 | 650.00 |
| 30 | B36 | 0 | 16.50 | 1.064 | -19.9 | 0.900 | 1.100 | 560.00 |
| 31 | B37 | 0 | 16.50 | 1.028 | -21.1 | 0.900 | 1.100 | 540.00 |
| 32 | B38 | 0 | 16.50 | 1.026 | -13.9 | 0.900 | 1.100 | 830.00 |
| 33 | B39 | 0 | 345.00 | 1.030 | -53.3 | 0.900 | 1.100 | 1000.00 |
| 34 | B39 REC | 0 | 100.00 | 1.016 | -55.2 | 0.900 | 1.100 | 0.00 |
| 35 | B4 | 0 | 345.00 | 0.872 | -22.9 | 0.900 | 1.100 | 0.00 |
| 36 | B5 | 0 | 345.00 | 0.856 | -16.3 | 0.900 | 1.100 | 0.00 |
| 37 | B6 | 0 | 345.00 | 0.864 | -15.0 | 0.900 | 1.100 | 0.00 |
| 38 | B7 | 0 | 345.00 | 0.829 | -16.5 | 0.900 | 1.100 | 0.00 |
| 39 | B8 | 0 | 345.00 | 0.818 | -16.5 | 0.900 | 1.100 | 0.00 |
| 40 | B9 | 0 | 345.00 | 0.719 | 1.8 | 0.900 | 1.100 | 0.00 |
| 41 | B9 INV | 0 | 100.00 | 0.707 | 5.8 | 0.900 | 1.100 | 0.00 |

Bus

| | Q Gen [MVAR] | P Load [MW] | Q Load [MVAR] | P motor [MW] | Q motor [MVAR] | P shunt [MW] | Q shunt [MVAR] |
|----|-----------------|----------------|------------------|-----------------|-------------------|-----------------|-------------------|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | 0.00 | 7.50 | 88.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 0.00 | 320.00 | 153.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | 0.00 | 329.00 | 32.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | 0.00 | 158.00 | 30.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | 0.00 | 628.00 | 103.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14 | 0.00 | 274.00 | 115.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | 0.00 | 247.50 | 84.60 | 800.00 | 600.00 | 0.00 | 0.00 |
| 17 | 0.00 | 308.60 | -92.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18 | 0.00 | 224.00 | 47.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | 0.00 | 139.00 | 17.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | 0.00 | 281.00 | 75.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 | 0.00 | 206.00 | 27.60 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 0.00 | 283.50 | 26.90 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 0.00 | 322.00 | 2.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | 338.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | 561.62 | 9.20 | 4.60 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 453.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27 | 241.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | 309.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | 578.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | 519.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 31 | 106.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 32 | 108.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 33 | 592.95 | 1104.00 | 250.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 35 | 0.00 | 500.00 | 184.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 38 | 0.00 | 233.80 | 84.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39 | 0.00 | 522.00 | 176.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |