

- ✓ System 'test_case_2' initialized at 60.0 Hz, 100.0 MVA
- ✓ Added bus 'bus1' - 13.8 kV - type: slack
- ✓ Added bus 'bus2' - 345.0 kV - type: pq
- ✓ Added bus 'bus3' - 20.0 kV - type: pq
- ✓ Added bus 'bus4' - 345.0 kV - type: pq
- ✓ Added bus 'bus5' - 345.0 kV - type: pq
- ✓ Added bus 'bus6' - 345.0 kV - type: pq
- ✓ Added bus 'bus7' - 345.0 kV - type: pv
- ✓ Added Transformer 'T1' between bus1 and bus2
- ✓ Added Transformer 'T2' between bus3 and bus4
- ✓ Added Conductor 'Card' (D=1.196 in, GMR=0.0403, R=0.1128, I=101.0)
- ✓ Added Geometry 'G1' - [A(0.0,0.0), B(28.0,4.0), C(56.0,0.0)]
- ✓ Added Bundle 'B1' using conductor 'Card'
- ✓ Added Transmission Line 'tline1' using bundle 'B1' and geometry 'G1'
- ✓ Added Transmission Line 'tline2' using bundle 'B1' and geometry 'G1'
- ✓ Added Transmission Line 'tline3' using bundle 'B1' and geometry 'G1'
- ✓ Added Transmission Line 'tline4' using bundle 'B1' and geometry 'G1'
- ✓ Added Transmission Line 'tline5' using bundle 'B1' and geometry 'G1'
- ✓ Added Load 'load5' with P=-200.0 MW, Q=-60.0 MVar on Bus 'bus5'
- ✓ Added Load 'load6' with P=-245.0 MW, Q=-80.0 MVar on Bus 'bus6'
- ✓ Added Load 'load3' with P=-180.0 MW, Q=-40.0 MVar on Bus 'bus3'
- ✓ Added Generator 'Gen 1' on Bus 'bus1' with Vset=0.0, X1=0.12, X2=0.14, X0=0.05
- ✓ Added Generator 'Gen 2' on Bus 'bus7' with Vset=0.0, X1=0.12, X2=0.14, X0=0.05
- Running Power Flow...