```
System 'test_case_1' initialized at 60.0 Hz, 100.0 MVA
Added bus 'bus1' - 20.0 kV - type: slack
Added bus 'bus2' - 230.0 kV - type: pq
Added bus 'bus3' - 230.0 kV - type: pq
Added bus 'bus4' - 230.0 kV - type: pg
Added bus 'bus5' - 230.0 kV - type: pg
Added bus 'bus6' - 230.0 kV - type: pq
Added bus 'bus7' - 18.0 kV - type: pv
Added Transformer 'T1' between bus1 and bus2
Added Transformer 'T2' between bus6 and bus7
Added Conductor 'Partridge' (D=0.642 in, GMR=0.0217, R=0.385, I=460.0)
Added Geometry 'G1' - [A(0.0,0.0), B(19.5,0.0), C(39.0,0.0)]
Added Bundle 'B1' using conductor 'Partridge'
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 Transmission Line 'Tline6' using bundle 'B1' and geometry 'G1'
Added Load 'load3' with P=-110.0 MW, Q=-50.0 MVar on Bus 'bus3'
Added Load 'load4' with P=-100.0 MW, Q=-70.0 MVar on Bus 'bus4'
Added Load 'load5' with P=-100.0 MW, Q=-65.0 MVar on Bus 'bus5'
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...
```