IEEE 123 100% DER, 0% Batteries. COPF. T=1

Current Status: My MPCOPF line loss result matches with the previous COPF line loss results, which still is a little off the OpenDSS line loss. Voltages (on the next page) match closely, but not completely. I don't know the cause of the slight mismatch. (and whether it will blow up for bigger simulations, or not be an issue)

Multi-Period Simulation, T = 1, Batteries at 0%, DERs at 100% (85 buses)

```
grandTotalTime = 7.4198

Machine ID: ETKL204-ARYAN

Horizon Duration: 1

"Nature of Simulation: "Centralized-OPF"

Line Loss: 12.0986 kW

Substation Power: 768.1766 kW

Substation Power Cost: 26.8862 $

Number of Macro-Iterations: 1

Simulation Time: 7.4198 s

Time to solve with sequential (non-parallel) computation: 6.0455 s

Time to solve if OPF computation paralellized: 6.0455 s
```

OpenDSS Powerflow with DERs at 100% (85 buses)

```
Line Loss: 12.0904 kW
Substation Power: 768.167 kW + 149.0344 kVAr
```

Comparison with OpenDSS



