

ANEXO III-12
ANÁLISIS DE CORTOCIRCUITO DE LARGO PLAZO

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Año 2020 – Época Seca en Demanda Máxima

OUTPUT FOR OWNER 20 [ETESA]

OPTIONS USED:

- SET PRE-FAULT VOLTAGES AND PHASE SHIFT ANGLES TO POWER FLOW SOLUTION
- SET SYNCHRONOUS/ASYNCHRONOUS MACHINE POWER OUTPUTS TO POWER FLOW SOLUTION
- SET GENERATOR POSITIVE SEQUENCE REACTANCES TO SUBTRANSIENT
- TRANSFORMER TAP RATIOS AND PHASE SHIFT ANGLES UNCHANGED
- LINE CHARGING REPRESENTED IN +/-0 SEQUENCES
- LINE/FIXED/SWITCHED SHUNTS AND TRANSFORMER MAGNETIZING ADMITTANCE REPRESENTED IN +/-0 SEQUENCES
- LOAD REPRESENTED IN +/-0 SEQUENCES
- DC LINES AND FACTS DEVICES BLOCKED
- IMPEDANCE CORRECTIONS NOT APPLIED TO TRANSFORMER ZERO SEQUENCE IMPEDANCES

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                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6000 [FRONTPRO  230.00] 3PH    2873.95  7214.2  -94.27
                                LG      2826.66  7095.5  -95.10
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/18.535/84.336, 10.08314  Z-:/18.236/84.803, 10.99548  Z0:/19.772/86.286, 15.40618
  
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                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6001 [PAN230    230.00] 3PH    4471.12  11223.5 -96.46
                                LG      5202.50  13059.4 -100.34
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/11.820/67.145, 2.37249  Z-:/11.657/68.818, 2.58054  Z0:/7.142/81.054, 6.35225
  
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                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6002 [PAN115    115.00] 3PH    4006.92  20116.5 -97.96
                                LG      4698.28  23587.4 -102.09
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/3.332/65.831, 2.22835  Z-:/3.295/67.294, 2.38990  Z0:/1.950/81.597, 6.76954
  
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                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6003 [PANII230  230.00] 3PH    3967.39  9959.0  -97.77
  
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                LG      4144.71  10404.1  -101.70
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/13.334/67.883, 2.46059  Z-:/13.180/69.373, 2.65661  Z0:/11.910/78.904, 5.09872

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-----
                <-SCMVA-> <-Sym I''k rms-->
                        /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6004 [PANII115      115.00] 3PH  2920.14  14660.4  -102.92
                        LG      3014.24  15132.8  -107.07
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/4.608/70.679, 2.85216  Z-:/4.575/71.816, 3.04443  Z0:/4.266/82.544, 7.64088

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-----
                <-SCMVA-> <-Sym I''k rms-->
                        /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6005 [CHO230      230.00] 3PH  3957.53  9934.3   -97.71
                        LG      4271.19  10721.6  -102.13
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/13.487/70.282, 2.79012  Z-:/13.241/72.373, 3.14734  Z0:/10.928/83.021, 8.16943

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-----
                <-SCMVA-> <-Sym I''k rms-->
                        /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6008 [LSA230      230.00] 3PH  4718.19  11843.7  -96.19
                        LG      4424.40  11106.2  -98.73
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/11.391/75.352, 3.82594  Z-:/11.267/76.559, 4.18413  Z0:/13.821/81.086, 6.37599

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-----
                <-SCMVA-> <-Sym I''k rms-->
                        /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6009 [LSA115      115.00] 3PH  2133.54  10711.3  -103.70
                        LG      2517.76  12640.3  -105.78
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/6.259/80.394, 5.90832  Z-:/6.209/81.196, 6.45682  Z0:/3.469/88.528, 38.91024

```

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-----
                <-SCMVA-> <-Sym I''k rms-->
                        /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6011 [MDN230      230.00] 3PH  4932.90  12382.6  -94.43
                        LG      6493.01  16298.9  -92.40
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/10.777/82.812, 7.92878  Z-:/10.615/83.557, 8.85552  Z0:/3.313/65.069, 2.15122

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-----
                <-SCMVA-> <-Sym I''k rms-->

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```

X----- BUS -----X
 6012 [MDN115      115.00] 3PH
                               LG
MVA      /I/      AN(I)
2415.68  AMP      DEG
1032.88  5185.5   59.52
THEVENIN IMPEDANCE, X/R (OHM) Z+:/5.492/85.521, 12.76557 Z-:/5.278/87.176, 20.26931 Z0:/48.683/-76.357, 4.11991

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<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
 6014 [PRO230      230.00] 3PH
                               LG
MVA      /I/      AN(I)
3408.62  AMP      DEG
3924.31  9850.9   -95.29
THEVENIN IMPEDANCE, X/R (OHM) Z+:/15.621/84.605, 10.58952 Z-:/15.319/85.210, 11.93264 Z0:/9.773/87.400, 22.02129

```

<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
 6015 [PRO115      115.00] 3PH
                               LG
MVA      /I/      AN(I)
1212.37  AMP      DEG
2361.19  11854.2  -97.98
THEVENIN IMPEDANCE, X/R (OHM) Z+:/10.951/88.205, 31.91344 Z-:/10.547/89.108, 64.23006 Z0:/4.630/-90.000, 9999.999

```

<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
 6018 [CAC115      115.00] 3PH
                               LG
MVA      /I/      AN(I)
3953.82  AMP      DEG
4628.66  23237.9  -101.93
THEVENIN IMPEDANCE, X/R (OHM) Z+:/3.374/65.946, 2.24034 Z-:/3.338/67.387, 2.40083 Z0:/1.978/80.244, 5.81589

```

<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
 6024 [CHI115      115.00] 3PH
                               LG
MVA      /I/      AN(I)
1436.42  AMP      DEG
1439.53  7227.1   -105.53
THEVENIN IMPEDANCE, X/R (OHM) Z+:/9.115/72.632, 3.19718 Z-:/9.076/73.186, 3.30926 Z0:/9.132/66.614, 2.31237

```

<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
 6059 [LM1115      115.00] 3PH
                               LG
MVA      /I/      AN(I)
2584.70  AMP      DEG
3156.72  15848.1  -110.33
THEVENIN IMPEDANCE, X/R (OHM) Z+:/5.090/74.870, 3.69851 Z-:/5.003/75.997, 4.00986 Z0:/2.423/82.025, 7.13826

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-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6060 [LM2115      115.00] 3PH  2582.27  12964.1 -108.53
                                LG      3153.87  15833.8 -110.40
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/5.095/74.927, 3.71312  Z-:/5.008/76.052, 4.02630  Z0:/2.426/82.274, 7.37047
-----

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6087 [CAL115      115.00] 3PH  1698.82   8528.8  -95.42
                                LG      1736.10   8716.0  -71.39
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/7.870/85.297, 12.15594  Z-:/7.741/85.842, 13.75692  Z0:/10.955/25.369, 0.47418
-----

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6088 [LES115      115.00] 3PH  1383.39   6945.2  -94.33
                                LG      1135.66   5701.5  -76.42
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/9.697/84.459, 10.30841  Z-:/9.578/84.832, 11.05600  Z0:/18.132/47.259, 1.08213
-----

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6092 [LVA115      115.00] 3PH  1573.47   7899.5  -94.94
                                LG      1467.74   7368.7  -73.61
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/8.499/84.927, 11.26374  Z-:/8.374/85.400, 12.42742  Z0:/13.191/35.551, 0.71463
-----

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6096 [FOR230      230.00] 3PH  5580.56  14008.4  -94.23
                                LG      5827.94  14629.4  -93.16
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/9.542/83.194, 8.37878  Z-:/9.463/83.694, 9.04965  Z0:/8.422/79.135, 5.21019
-----

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG

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6100 [BAY230      230.00] 3PH   1780.41   4469.2  -103.12
                                LG   1937.54   4863.6  -108.19
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/29.931/72.824, 3.23535  Z-:/29.808/73.520, 3.38034  Z0:/23.498/90.000, 9999.999

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-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/   AN(I)
X----- BUS -----X          MVA     AMP     DEG
6170 [CPA115      115.00] 3PH   1412.63   7092.0  -109.09
                                LG   1366.15   6858.7  -110.82
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/9.342/75.692, 3.92087  Z-:/9.281/76.269, 4.09242  Z0:/10.372/80.016, 5.68056

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-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/   AN(I)
X----- BUS -----X          MVA     AMP     DEG
6171 [PAC230      230.00] 3PH   2579.61   6475.4  -101.14
                                LG   2251.73   5652.3  -105.59
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/20.561/70.980, 2.90086  Z-:/20.427/71.972, 3.07263  Z0:/29.910/80.853, 6.21079

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-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/   AN(I)
X----- BUS -----X          MVA     AMP     DEG
6173 [STR115      115.00] 3PH   2482.16  12461.5  -107.77
                                LG   2919.73  14658.3  -109.93
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/5.324/74.440, 3.59126  Z-:/5.254/75.457, 3.85466  Z0:/3.020/82.376, 7.47032

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-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/   AN(I)
X----- BUS -----X          MVA     AMP     DEG
6179 [GUA230      230.00] 3PH   5042.38  12657.5  -95.05
                                LG   4896.34  12290.9  -95.35
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/10.560/82.991, 8.13355  Z-:/10.496/83.437, 8.69149  Z0:/11.570/83.447, 8.70484

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-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/   AN(I)
X----- BUS -----X          MVA     AMP     DEG
6182 [VEL230      230.00] 3PH   4740.35  11899.3  -96.19
                                LG   4226.94  10610.5  -93.56
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/11.311/80.110, 5.73554  Z-:/11.206/80.860, 6.21519  Z0:/15.614/73.151, 3.30204

```

```

<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6240 [EHIG230      230.00] 3PH  2936.67  7371.7  -98.28
          LG      2444.23  6135.6  -100.64
THEVENIN IMPEDANCE, X/R (OHM) Z+:/18.254/74.331, 3.56497 Z-:/18.103/75.379, 3.83329 Z0:/29.482/78.966, 5.12830

```

```

<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6245 [BNGA230      230.00] 3PH  3653.03  9169.9  -99.31
          LG      3665.71  9201.7  -101.54
THEVENIN IMPEDANCE, X/R (OHM) Z+:/14.533/71.633, 3.01196 Z-:/14.402/72.930, 3.25653 Z0:/14.547/77.011, 4.33514

```

```

<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6260 [CHA230      230.00] 3PH  2258.88  5670.3  -93.32
          LG      1753.44  4401.5  -92.31
THEVENIN IMPEDANCE, X/R (OHM) Z+:/23.480/81.990, 7.10654 Z-:/23.446/82.142, 7.24518 Z0:/43.836/79.822, 5.56998

```

```

<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6261 [CHA115      115.00] 3PH  652.05  3273.6  -98.42
          LG      1044.82  5245.4  -98.08
THEVENIN IMPEDANCE, X/R (OHM) Z+:/20.236/86.585, 16.75776 Z-:/20.230/86.625, 16.95496 Z0:/2.591/-88.136, 30.73434

```

```

<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6263 [ESP230      230.00] 3PH  2523.20  6333.8  -93.65
          LG      2841.38  7132.5  -91.81
THEVENIN IMPEDANCE, X/R (OHM) Z+:/21.140/82.974, 8.11365 Z-:/21.109/83.126, 8.29529 Z0:/14.163/75.411, 3.84194

```

```

<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6275 [CHG500      500.00] 3PH  4381.79  5059.7  -97.30
          LG      4121.24  4758.8  -92.48

```


THEVENIN IMPEDANCE, X/R (OHM) Z+:/57.586/81.344, 6.56839 Z-:/57.344/81.931, 7.05387 Z0:/69.964/68.088, 2.48610

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
X----- BUS -----X MVA AMP DEG
 6276 [CHG230 230.00] 3PH 5212.96 13085.7 -94.99
 LG 5033.83 12636.0 -87.78
THEVENIN IMPEDANCE, X/R (OHM) Z+:/10.184/81.931, 7.05329 Z-:/10.141/82.428, 7.52273 Z0:/11.786/61.791, 1.86431

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
X----- BUS -----X MVA AMP DEG
 6290 [CATIII115 115.00] 3PH 2479.28 12447.1 -108.59
 LG 2972.86 14925.1 -111.10
THEVENIN IMPEDANCE, X/R (OHM) Z+:/5.309/75.003, 3.73288 Z-:/5.224/76.078, 4.03420 Z0:/2.780/85.025, 11.48846

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
X----- BUS -----X MVA AMP DEG
 6309 [PAN3 500 500.00] 3PH 4313.15 4980.4 -98.32
 LG 4565.91 5272.3 -101.73
THEVENIN IMPEDANCE, X/R (OHM) Z+:/58.432/72.922, 3.25498 Z-:/57.942/74.220, 3.53865 Z0:/49.676/82.795, 7.90971

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
X----- BUS -----X MVA AMP DEG
 6310 [PAN3 230 230.00] 3PH 4565.76 11461.0 -96.24
 LG 5364.90 13467.1 -99.82
THEVENIN IMPEDANCE, X/R (OHM) Z+:/11.603/67.371, 2.39894 Z-:/11.443/69.052, 2.61216 Z0:/6.699/80.446, 5.94138

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
X----- BUS -----X MVA AMP DEG
 6311 [PAN3 115 115.00] 3PH 3086.66 15496.4 -101.74
 LG 3066.80 15396.7 -106.83
THEVENIN IMPEDANCE, X/R (OHM) Z+:/4.312/70.597, 2.83911 Z-:/4.281/71.747, 3.03210 Z0:/4.504/84.318, 10.05080

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)

```

X----- BUS -----X          MVA      AMP      DEG
 6314 [SAB500      500.00] 3PH   3853.21  4449.3  -99.61
                               LG      0.00    0.0    0.00
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/65.606/74.496, 3.60484  Z-:/65.158/75.628, 3.90260  Z0:/0.2E+10/90.000, 9999.999

-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
 6315 [MET230      230.00] 3PH   508.28   1275.9 -110.86
                               LG      473.65  1189.0 -114.94
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/106.478/79.473, 5.38113  Z-:/106.409/79.682, 5.49278  Z0:/131.243/90.000, 9999.999

-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
 6317 [CHE         230.00] 3PH   2241.49  5626.6 -101.74
                               LG      0.00    0.0    0.00
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/23.761/71.453, 2.98054  Z-:/23.630/72.322, 3.13762  Z0:/0.53E+09/90.000, 9999.999

-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
 6318 [SAB230      230.00] 3PH   2706.18  6793.1 -103.49
                               LG      0.00    0.0    0.00
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/19.828/80.165, 5.76861  Z-:/19.771/80.825, 6.19118  Z0:/0.53E+09/90.000, 9999.999

-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
 6340 [CAN230      230.00] 3PH   4024.18  10101.6 -94.58
                               LG      4468.06  11215.8 -88.38
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/13.194/81.600, 6.77167  Z-:/13.146/81.974, 7.09214  Z0:/9.916/58.209, 1.61340

-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
 6350 [PM115-8     115.00] 3PH   3317.58  16655.7 -99.24
                               LG      3483.11  17486.7 -102.40
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/3.996/66.485, 2.29822  Z-:/3.963/67.712, 2.43965  Z0:/3.485/75.482, 3.86174

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
                /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
6380 [BOQIII230  230.00] 3PH  3282.46  8239.7  -94.46
                LG      3392.09  8514.9  -96.79
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/16.214/84.084, 9.65066  Z-:/16.014/84.556, 10.49230  Z0:/14.910/90.972, 58.95415
-----

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```

-----
<-SCMVA-> <-Sym I''k rms-->
                /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
6400 [FRONTCHA  230.00] 3PH  1687.82  4236.8  -92.96
                LG      1254.29  3148.5  -91.02
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/31.467/81.621, 6.78918  Z-:/31.432/81.734, 6.88316  Z0:/64.205/77.730, 4.59787
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```

-----
<-SCMVA-> <-Sym I''k rms-->
                /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
6401 [PM230-29  230.00] 3PH  3798.42  9534.9  -95.14
                LG      2796.24  7019.2  -93.06
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/14.009/82.751, 7.86210  Z-:/13.951/83.092, 8.25431  Z0:/29.171/78.497, 4.91371
-----

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
                /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
6440 [DOM230    230.00] 3PH  2150.47  5398.1  -95.04
                LG      2610.46  6552.8  -94.43
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/24.714/84.106, 9.68719  Z-:/24.288/84.337, 10.08511  Z0:/12.095/80.552, 6.00927
-----

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
                /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
6441 [PRIM230   230.00] 3PH  1667.26  4185.2  -93.95
                LG      1690.65  4243.9  -92.24
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/31.857/83.079, 8.23846  Z-:/31.448/83.229, 8.42271  Z0:/31.037/77.720, 4.59408
-----

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
                /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
6460 [ECO230    230.00] 3PH  3262.49  8189.6  -98.91
-----

```

```

                LG      3447.70    8654.5   -101.60
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/16.454/77.573, 4.53805  Z-:/16.353/78.443, 4.89033  Z0:/13.989/85.561, 12.88002

```

```

-----
                <-SCMVA-> <-Sym I''k rms-->
                        /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6470 [24DIC230      230.00] 3PH      3050.34    7657.0    -98.64
                LG      2654.98    6664.6    -103.18
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/17.360/68.525, 2.54186  Z-:/17.211/69.678, 2.70012  Z0:/25.460/78.444, 4.89061

```

```

-----
                <-SCMVA-> <-Sym I''k rms-->
                        /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6485 [ANT230      230.00] 3PH      3206.56    8049.2    -99.30
                LG      3620.80    9089.0    -102.25
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/16.928/77.584, 4.54215  Z-:/16.801/78.623, 4.96984  Z0:/11.368/87.792, 25.93948

```

```

-----
                <-SCMVA-> <-Sym I''k rms-->
                        /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6500 [FRONTDOM      230.00] 3PH      2078.79    5218.2    -94.24
                LG      2340.21    5874.4    -90.51
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/25.598/83.547, 8.84164  Z-:/25.226/83.777, 9.17154  Z0:/17.836/68.785, 2.57618

```

```

-----
                <-SCMVA-> <-Sym I''k rms-->
                        /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6601 [COP230      230.00] 3PH      2962.65    7436.9    -98.96
                LG      2535.78    6365.4    -103.45
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/17.878/68.839, 2.58330  Z-:/17.732/69.961, 2.74167  Z0:/27.249/78.467, 4.90065

```

```

-----
                <-SCMVA-> <-Sym I''k rms-->
                        /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6760 [SBA230      230.00] 3PH      3432.14    8615.4    -97.82
                LG      2266.44    5689.3    -96.89
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/15.702/80.184, 5.77979  Z-:/15.601/80.829, 6.19422  Z0:/40.046/78.265, 4.81420

```

```

-----
                <-SCMVA-> <-Sym I''k rms-->

```

```

X----- BUS -----X
 6761 [SBA115      115.00] 3PH
                               LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	855.63	4295.7	-103.06
LG	867.10	4353.2	-103.91

Z+:/15.544/87.473, 22.65832 Z-:/15.530/87.599, 23.85380 Z0:/14.950/89.969, 1829.0682

-----<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
 6860 [BBL230      230.00] 3PH
                               LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	3587.41	9005.2	-96.10
LG	2996.09	7520.8	-94.35

Z+:/14.956/79.673, 5.48795 Z-:/14.852/80.245, 5.81686 Z0:/23.958/75.386, 3.83523

-----<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
 6985 [SVC-PAN3    230.00] 3PH
                               LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	4565.76	11461.0	-96.24
LG	5364.90	13467.1	-99.82

Z+:/11.603/67.371, 2.39894 Z-:/11.443/69.052, 2.61216 Z0:/6.699/80.446, 5.94138

-----<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
 6990 [REACTOR1    500.00] 3PH
                               LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	4381.79	5059.7	-97.30
LG	4121.24	4758.8	-92.48

Z+:/57.586/81.344, 6.56839 Z-:/57.344/81.931, 7.05387 Z0:/69.964/68.088, 2.48610

-----<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
 6991 [REACTOR2    500.00] 3PH
                               LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	4313.15	4980.4	-98.32
LG	4565.91	5272.3	-101.73

Z+:/58.432/72.922, 3.25498 Z-:/57.942/74.220, 3.53865 Z0:/49.676/82.795, 7.90971

-----<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
 6992 [REACTOR3    500.00] 3PH
                               LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	4381.79	5059.7	-97.30
LG	4121.24	4758.8	-92.48

Z+:/57.586/81.344, 6.56839 Z-:/57.344/81.931, 7.05387 Z0:/69.964/68.088, 2.48610

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6993 [REACTOR4   500.00] 3PH   4313.15   4980.4   -98.32
                                LG   4565.91   5272.3  -101.73
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/58.432/72.922, 3.25498  Z-:/57.942/74.220, 3.53865  Z0:/49.676/82.795, 7.90971
-----

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6995 [SVC-LSA    230.00] 3PH   4718.19  11843.7  -96.19
                                LG   4424.40  11106.2  -98.73
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/11.391/75.352, 3.82594  Z-:/11.267/76.559, 4.18413  Z0:/13.821/81.086, 6.37599
-----

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6997 [SVC-PAN2   230.00] 3PH   3967.39   9959.0   -97.77
                                LG   4144.71  10404.1  -101.70
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/13.334/67.883, 2.46059  Z-:/13.180/69.373, 2.65661  Z0:/11.910/78.904, 5.09872
-----

```

Año 2020 – Época Lluviosa en Demanda Máxima

OUTPUT FOR OWNER 20 [ETESA]

OPTIONS USED:

- SET PRE-FAULT VOLTAGES AND PHASE SHIFT ANGLES TO POWER FLOW SOLUTION
- SET SYNCHRONOUS/ASYNCHRONOUS MACHINE POWER OUTPUTS TO POWER FLOW SOLUTION
- SET GENERATOR POSITIVE SEQUENCE REACTANCES TO SUBTRANSIENT
- TRANSFORMER TAP RATIOS AND PHASE SHIFT ANGLES UNCHANGED
- LINE CHARGING REPRESENTED IN +/-0 SEQUENCES
- LINE/FIXED/SWITCHED SHUNTS AND TRANSFORMER MAGNETIZING ADMITTANCE REPRESENTED IN +/-0 SEQUENCES
- LOAD REPRESENTED IN +/-0 SEQUENCES
- DC LINES AND FACTS DEVICES BLOCKED
- IMPEDANCE CORRECTIONS NOT APPLIED TO TRANSFORMER ZERO SEQUENCE IMPEDANCES

```

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6000 [FRONTPRO   230.00] 3PH   2765.24   6941.4   -98.81
                                LG    2757.18   6921.1   -99.83
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/19.258/83.879, 9.32473  Z-:/18.923/84.471, 10.33025  Z0:/19.771/86.285, 15.40124
  
```

```

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6001 [PAN230    230.00] 3PH   4492.36  11276.8  -106.86
                                LG    5249.86  13178.3  -110.80
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/11.984/66.833, 2.33687  Z-:/11.806/68.574, 2.54824  Z0:/7.126/81.078, 6.36993
  
```

```

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6002 [PAN115    115.00] 3PH   3927.90  19719.8  -108.32
                                LG    4650.97  23349.9  -112.43
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/3.470/65.549, 2.19924  Z-:/3.429/67.078, 2.36476  Z0:/1.947/81.616, 6.78495
  
```

```

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6003 [PANII230  230.00] 3PH   4143.04  10400.0  -108.20
  
```


LG 4299.28 10792.1 -112.17
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/13.024/67.964, 2.47060 Z-:/12.862/69.513, 2.67648 Z0:/11.896/78.910, 5.10160

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6004 [PANII115 115.00] 3PH 2986.38 14993.0 -113.41
 LG 3083.92 15482.6 -117.52
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/4.610/70.848, 2.87941 Z-:/4.575/72.029, 3.08305 Z0:/4.263/82.551, 7.64794

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6005 [CHO230 230.00] 3PH 3934.67 9876.9 -108.45
 LG 4277.53 10737.5 -112.96
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/13.794/69.869, 2.72801 Z-:/13.526/72.017, 3.08080 Z0:/10.923/83.021, 8.16948

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6008 [LSA230 230.00] 3PH 4535.19 11384.3 -106.71
 LG 4326.06 10859.4 -109.56
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/11.898/74.477, 3.60018 Z-:/11.752/75.793, 3.94980 Z0:/13.817/81.078, 6.36962

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6009 [LSA115 115.00] 3PH 2103.30 10559.5 -114.19
 LG 2495.14 12526.7 -116.49
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/6.396/79.393, 5.34009 Z-:/6.341/80.273, 5.83396 Z0:/3.469/88.527, 38.88130

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6011 [MDN230 230.00] 3PH 4420.67 11096.8 -101.28
 LG 5904.93 14822.7 -99.65
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/12.069/81.926, 7.04954 Z-:/11.862/82.862, 7.98554 Z0:/3.310/64.972, 2.14181

 <-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6012 [MDN115      115.00] 3PH
      LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN(I) DEG
3PH	2308.37	11589.1	-102.24
LG	1053.84	5290.7	53.37

Z+:/5.797/84.876, 11.15113 Z-:/5.555/86.710, 17.39427 Z0:/48.714/-76.062, 4.02949

-----<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6014 [PRO230      230.00] 3PH
      LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN(I) DEG
3PH	3250.08	8158.4	-98.95
LG	3785.94	9503.5	-100.02

Z+:/16.378/84.021, 9.54810 Z-:/16.039/84.774, 10.93263 Z0:/9.773/87.398, 22.00528

-----<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6015 [PRO115      115.00] 3PH
      LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN(I) DEG
3PH	1192.04	5984.5	-102.65
LG	2311.41	11604.3	-102.61

Z+:/11.133/87.416, 22.15974 Z-:/10.718/88.471, 37.45538 Z0:/4.630/-90.000, 9999.999

-----<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6018 [CAC115      115.00] 3PH
      LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN(I) DEG
3PH	3873.25	19445.4	-108.47
LG	4579.76	22992.4	-112.26

Z+:/3.517/65.646, 2.20923 Z-:/3.476/67.154, 2.37353 Z0:/1.976/80.259, 5.82528

-----<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6024 [CHI115      115.00] 3PH
      LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN(I) DEG
3PH	1449.37	7276.5	-117.64
LG	1453.94	7299.4	-115.78

Z+:/9.218/72.568, 3.18476 Z-:/9.177/73.153, 3.30243 Z0:/9.212/66.393, 2.28817

-----<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6059 [LM1115      115.00] 3PH
      LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN(I) DEG
3PH	2602.39	13065.2	-118.57
LG	3184.57	15987.9	-120.41

Z+:/5.145/74.814, 3.68421 Z-:/5.058/75.961, 3.99906 Z0:/2.425/82.039, 7.15088

```

-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6060 [LM2115      115.00] 3PH  2599.89  13052.6 -118.61
                                LG      3181.55  15972.8 -120.49
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/5.151/74.870, 3.69851  Z-:/5.063/76.015, 4.01516  Z0:/2.428/82.288, 7.38495
-----

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6087 [CAL115      115.00] 3PH  1671.36  8391.0  -98.06
                                LG      1718.44  8627.3  -74.36
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/8.043/85.153, 11.79267  Z-:/7.898/85.788, 13.57951  Z0:/11.021/25.381, 0.47443
-----

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6088 [LES115      115.00] 3PH  1368.76  6871.8  -96.81
                                LG      1131.05  5678.4  -79.03
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/9.854/84.385, 10.17189  Z-:/9.720/84.824, 11.03964  Z0:/18.193/47.189, 1.07948
-----

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6092 [LVA115      115.00] 3PH  1551.66  7790.0  -97.52
                                LG      1456.89  7314.2  -76.42
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/8.667/84.814, 11.01746  Z-:/8.525/85.367, 12.34053  Z0:/13.256/35.511, 0.71357
-----

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6096 [FOR230      230.00] 3PH  4530.77  11373.2 -102.64
                                LG      5102.70  12808.9 -100.90
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/11.784/81.523, 6.70986  Z-:/11.662/82.204, 7.30438  Z0:/8.004/73.688, 3.41707
-----

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG

```

```

6100 [BAY230      230.00] 3PH   2416.80   6066.7  -114.10
                                LG   2401.67   6028.7  -118.93
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/22.570/76.507, 4.16739  Z-:/22.478/77.142, 4.38080  Z0:/23.498/90.000, 9999.999

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
                                /I/   AN(I)
X----- BUS -----X          MVA     AMP     DEG
6170 [CPA115      115.00] 3PH   1427.73   7167.8  -119.27
                                LG   1384.71   6951.9  -121.03
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/9.417/75.606, 3.89648  Z-:/9.355/76.205, 4.07286  Z0:/10.374/79.991, 5.66597

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
                                /I/   AN(I)
X----- BUS -----X          MVA     AMP     DEG
6171 [PAC230      230.00] 3PH   2887.18   7247.5  -111.77
                                LG   2420.62   6076.3  -115.92
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/18.756/72.141, 3.10359  Z-:/18.628/73.138, 3.29925  Z0:/29.901/80.854, 6.21094

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
                                /I/   AN(I)
X----- BUS -----X          MVA     AMP     DEG
6173 [STR115      115.00] 3PH   2501.06  12556.4  -117.91
                                LG   2949.20  14806.3  -120.07
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/5.383/74.368, 3.57378  Z-:/5.311/75.411, 3.84209  Z0:/3.021/82.381, 7.47589

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
                                /I/   AN(I)
X----- BUS -----X          MVA     AMP     DEG
6179 [GUA230      230.00] 3PH   4397.64  11039.0  -103.32
                                LG   4583.57  11505.8  -103.28
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/12.150/81.768, 6.91196  Z-:/12.053/82.376, 7.47091  Z0:/10.769/80.963, 6.28744

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
                                /I/   AN(I)
X----- BUS -----X          MVA     AMP     DEG
6182 [VEL230      230.00] 3PH   4384.37  11005.7  -104.71
                                LG   4049.85  10166.0  -102.64
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/12.333/79.098, 5.19180  Z-:/12.197/79.996, 5.66888  Z0:/15.586/73.076, 3.28637
-----

```

```

<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6240 [EHIG230      230.00] 3PH  2897.01  7272.1  -109.11
          LG          2437.10  6117.7  -111.68
THEVENIN IMPEDANCE, X/R (OHM) Z+:/18.680/73.846, 3.45238 Z-:/18.509/74.969, 3.72389 Z0:/29.481/78.964, 5.12729

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6245 [BNGA230      230.00] 3PH  3655.27  9175.5  -110.07
          LG          3690.40  9263.7  -112.42
THEVENIN IMPEDANCE, X/R (OHM) Z+:/14.770/71.284, 2.95166 Z-:/14.625/72.647, 3.20027 Z0:/14.533/77.013, 4.33584

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6260 [CHA230       230.00] 3PH  2121.63  5325.8  -102.54
          LG          1707.91  4287.2  -101.98
THEVENIN IMPEDANCE, X/R (OHM) Z+:/25.408/81.487, 6.68093 Z-:/25.352/81.713, 6.86541 Z0:/43.935/80.136, 5.75119

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6261 [CHA115       115.00] 3PH  645.64   3241.4  -106.48
          LG          1033.18  5187.0  -106.15
THEVENIN IMPEDANCE, X/R (OHM) Z+:/20.642/86.346, 15.65844 Z-:/20.633/86.409, 15.93281 Z0:/2.589/-88.188, 31.61319

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6263 [ESP230       230.00] 3PH  2373.44  5957.9  -102.65
          LG          2756.84  6920.3  -101.54
THEVENIN IMPEDANCE, X/R (OHM) Z+:/22.729/82.542, 7.63856 Z-:/22.679/82.768, 7.88074 Z0:/13.341/77.298, 4.43673

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6275 [CHG500       500.00] 3PH  3886.21  4487.4  -106.98
          LG          4052.08  4678.9  -104.36

```

THEVENIN IMPEDANCE, X/R (OHM) Z+:/65.544/79.999, 5.67087 Z-:/65.180/80.717, 6.11791 Z0:/58.435/70.698, 2.85526

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
X----- BUS -----X MVA AMP DEG
 6276 [CHG230 230.00] 3PH 4356.21 10935.0 -104.57
 LG 4823.96 12109.2 -100.16
THEVENIN IMPEDANCE, X/R (OHM) Z+:/12.279/80.495, 5.97230 Z-:/12.208/81.138, 6.41371 Z0:/9.090/63.255, 1.98442

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
X----- BUS -----X MVA AMP DEG
 6290 [CATIII115 115.00] 3PH 2497.46 12538.3 -118.67
 LG 3001.20 15067.4 -121.19
THEVENIN IMPEDANCE, X/R (OHM) Z+:/5.365/74.945, 3.71783 Z-:/5.279/76.040, 4.02286 Z0:/2.780/85.028, 11.49549

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
X----- BUS -----X MVA AMP DEG
 6309 [PAN3 500 500.00] 3PH 4211.35 4862.9 -108.90
 LG 4520.84 5220.2 -112.38
THEVENIN IMPEDANCE, X/R (OHM) Z+:/60.786/72.497, 3.17092 Z-:/60.209/73.877, 3.45925 Z0:/49.386/82.835, 7.95489

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
X----- BUS -----X MVA AMP DEG
 6310 [PAN3 230 230.00] 3PH 4569.54 11470.5 -106.69
 LG 5397.44 13548.7 -110.33
THEVENIN IMPEDANCE, X/R (OHM) Z+:/11.804/67.050, 2.36152 Z-:/11.628/68.800, 2.57811 Z0:/6.676/80.484, 5.96572

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
X----- BUS -----X MVA AMP DEG
 6311 [PAN3 115 115.00] 3PH 3062.65 15375.9 -112.11
 LG 3074.28 15434.2 -117.25
THEVENIN IMPEDANCE, X/R (OHM) Z+:/4.432/70.267, 2.78788 Z-:/4.398/71.482, 2.98564 Z0:/4.499/84.337, 10.08533

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)

```

X----- BUS -----X          MVA      AMP      DEG
 6314 [SAB500      500.00] 3PH   3779.87   4364.6  -110.28
                               LG      0.00     0.0    0.00
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/67.893/74.068, 3.50298  Z-:/67.363/75.279, 3.80607  Z0:/0.2E+10/90.000, 9999.999
-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
 6315 [MET230      230.00] 3PH   540.14   1355.9  -120.21
                               LG      490.83  1232.1 -124.05
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/102.461/80.423, 5.92683  Z-:/102.390/80.598, 6.03897  Z0:/134.524/90.000, 9999.999
-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
 6317 [CHE         230.00] 3PH   2775.68  6967.6  -112.62
                               LG      0.00     0.0    0.00
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/19.614/73.895, 3.46341  Z-:/19.503/74.742, 3.66584  Z0:/0.53E+09/90.000, 9999.999
-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
 6318 [SAB230      230.00] 3PH   2686.39  6743.4  -114.74
                               LG      0.00     0.0    0.00
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/20.222/79.768, 5.53988  Z-:/20.152/80.489, 5.96895  Z0:/0.53E+09/90.000, 9999.999
-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
 6340 [CAN230      230.00] 3PH   3534.56  8872.5  -104.23
                               LG      4074.11 10226.9 -99.53
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/15.124/80.564, 6.01731  Z-:/15.047/81.077, 6.36902  Z0:/9.662/60.226, 1.74797
-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
 6350 [PM115-8     115.00] 3PH   3290.05 16517.5 -109.63
                               LG      3486.72 17504.9 -112.83
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/4.116/66.284, 2.27632  Z-:/4.079/67.574, 2.42307  Z0:/3.484/75.484, 3.86218

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
                /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
6380 [BOQIII230  230.00] 3PH  3104.45  7792.9  -99.82
                LG      3266.62  8199.9  -102.29
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/17.145/83.547, 8.84143  Z-:/16.908/84.159, 9.77439  Z0:/14.910/90.970, 59.08930
-----

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
                /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
6400 [FRONTCHA  230.00] 3PH  1616.10  4056.8  -102.33
                LG      1236.31  3103.4  -100.75
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/33.401/81.257, 6.50252  Z-:/33.345/81.429, 6.63473  Z0:/64.296/77.948, 4.68386
-----

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
                /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
6401 [PM230-29  230.00] 3PH  3409.95  8559.7  -104.09
                LG      2734.51  6864.2  -102.18
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/15.675/81.769, 6.91281  Z-:/15.587/82.249, 7.34659  Z0:/27.426/77.394, 4.47146
-----

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
                /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
6440 [DOM230    230.00] 3PH  2109.42  5295.1  -98.83
                LG      2571.58  6455.2  -98.29
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/25.216/83.924, 9.39393  Z-:/24.760/84.217, 9.87324  Z0:/12.095/80.546, 6.00537
-----

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
                /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
6441 [PRIM230   230.00] 3PH  1644.62  4128.3  -97.58
                LG      1676.24  4207.7  -95.93
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/32.338/82.967, 8.10518  Z-:/31.899/83.163, 8.34048  Z0:/31.037/77.718, 4.59323
-----

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
                /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
6460 [ECO230    230.00] 3PH  3215.88  8072.6  -110.93
-----

```


LG 3423.13 8592.8 -113.77
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/16.829/77.002, 4.33216 Z-:/16.714/77.950, 4.68445 Z0:/13.988/85.559, 12.87545

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6470 [24DIC230 230.00] 3PH 3299.35 8282.1 -109.35
 LG 2800.98 7031.1 -113.68
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/16.389/69.309, 2.64769 Z-:/16.239/70.491, 2.82242 Z0:/25.447/78.445, 4.89121

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6485 [ANT230 230.00] 3PH 3148.30 7902.9 -111.40
 LG 3576.64 8978.1 -114.47
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/17.304/77.062, 4.35291 Z-:/17.161/78.176, 4.77664 Z0:/11.367/87.792, 25.93045

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6500 [FRONTDOM 230.00] 3PH 2036.04 5110.9 -98.27
 LG 2305.08 5786.3 -94.67
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/26.152/83.351, 8.57852 Z-:/25.747/83.649, 8.98512 Z0:/17.836/68.782, 2.57569

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6601 [COP230 230.00] 3PH 3220.09 8083.1 -109.67
 LG 2680.84 6729.5 -113.92
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/16.798/69.686, 2.70138 Z-:/16.651/70.834, 2.87703 Z0:/27.237/78.468, 4.90115

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6760 [SBA230 230.00] 3PH 3265.30 8196.6 -107.00
 LG 2232.08 5603.0 -106.59
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/16.703/79.328, 5.30640 Z-:/16.576/80.089, 5.72319 Z0:/40.033/78.252, 4.80867

 <-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6761 [SBA115      115.00] 3PH
                        LG
MVA      /I/      AN(I)
842.60   AMP      DEG
857.38   4230.2   -110.59
4304.4   -111.53
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/15.735/87.210, 20.52279  Z-:/15.719/87.368, 21.75428  Z0:/14.950/89.969, 1827.6047

```

<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6860 [BBL230      230.00] 3PH
                        LG
MVA      /I/      AN(I)
3398.22  AMP      DEG
2918.03  8530.3   -104.95
7324.9   -103.60
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/15.913/78.941, 5.11639  Z-:/15.780/79.637, 5.46824  Z0:/23.934/75.345, 3.82389

```

<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6985 [SVC-PAN3    230.00] 3PH
                        LG
MVA      /I/      AN(I)
4569.54  AMP      DEG
5397.44  11470.5  -106.69
13548.7  -110.33
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/11.804/67.050, 2.36152  Z-:/11.628/68.800, 2.57811  Z0:/6.676/80.484, 5.96572

```

<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6990 [REACTOR1    500.00] 3PH
                        LG
MVA      /I/      AN(I)
3886.21  AMP      DEG
4052.08  4487.4   -106.98
4678.9   -104.36
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/65.544/79.999, 5.67087  Z-:/65.180/80.717, 6.11791  Z0:/58.435/70.698, 2.85526

```

<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6991 [REACTOR2    500.00] 3PH
                        LG
MVA      /I/      AN(I)
4211.35  AMP      DEG
4520.84  4862.9   -108.90
5220.2   -112.38
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/60.786/72.497, 3.17092  Z-:/60.209/73.877, 3.45925  Z0:/49.386/82.835, 7.95489

```

<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6992 [REACTOR3    500.00] 3PH
                        LG
MVA      /I/      AN(I)
3886.21  AMP      DEG
4052.08  4487.4   -106.98
4678.9   -104.36
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/65.544/79.999, 5.67087  Z-:/65.180/80.717, 6.11791  Z0:/58.435/70.698, 2.85526

```

```

-----
                <-SCMVA-> <-Sym I''k rms-->
                /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6993 [REACTOR4   500.00] 3PH   4211.35   4862.9  -108.90
                                LG   4520.84   5220.2  -112.38
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/60.786/72.497, 3.17092  Z-:/60.209/73.877, 3.45925  Z0:/49.386/82.835, 7.95489
-----

```

```

-----
                <-SCMVA-> <-Sym I''k rms-->
                /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6995 [SVC-LSA    230.00] 3PH   4535.19  11384.3 -106.71
                                LG   4326.06  10859.4 -109.56
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/11.898/74.477, 3.60018  Z-:/11.752/75.793, 3.94980  Z0:/13.817/81.078, 6.36962
-----

```

```

-----
                <-SCMVA-> <-Sym I''k rms-->
                /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6997 [SVC-PAN2   230.00] 3PH   4143.04  10400.0 -108.20
                                LG   4299.28  10792.1 -112.17
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/13.024/67.964, 2.47060  Z-:/12.862/69.513, 2.67648  Z0:/11.896/78.910, 5.10160
-----

```

Año 2025 – Época Seca en Demanda Máxima

OUTPUT FOR AREA 6 [PANAMA] OWNER 20 [ETESA]

OPTIONS USED:

- SET PRE-FAULT VOLTAGES AND PHASE SHIFT ANGLES TO POWER FLOW SOLUTION
- SET SYNCHRONOUS/ASYNCHRONOUS MACHINE POWER OUTPUTS TO POWER FLOW SOLUTION
- SET GENERATOR POSITIVE SEQUENCE REACTANCES TO SUBTRANSIENT
- TRANSFORMER TAP RATIOS AND PHASE SHIFT ANGLES UNCHANGED
- LINE CHARGING REPRESENTED IN +/-0 SEQUENCES
- LINE/FIXED/SWITCHED SHUNTS AND TRANSFORMER MAGNETIZING ADMITTANCE REPRESENTED IN +/-0 SEQUENCES
- LOAD REPRESENTED IN +/-0 SEQUENCES
- DC LINES AND FACTS DEVICES BLOCKED
- IMPEDANCE CORRECTIONS NOT APPLIED TO TRANSFORMER ZERO SEQUENCE IMPEDANCES

```

<-SCMVA-> <-Sym I''k rms-->
              /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6000 [FRONTPRO  230.00] 3PH  2827.21  7096.9  -96.49
              LG      2805.38  7042.1  -97.38
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/18.890/84.254, 9.93809  Z-:/18.586/84.816, 11.02139  Z0:/19.642/86.308, 15.49860

```

```

<-SCMVA-> <-Sym I''k rms-->
              /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6001 [PAN230    230.00] 3PH  5882.94 14767.5 -96.87
              LG      6490.82 16293.4 -100.68
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/9.046/69.305, 2.64711  Z-:/8.975/70.608, 2.84096  Z0:/6.678/81.656, 6.81817

```

```

<-SCMVA-> <-Sym I''k rms-->
              /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6002 [PAN115    115.00] 3PH  5118.20 25695.6 -97.90
              LG      5618.90 28209.4 -102.29
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/2.609/67.691, 2.43717  Z-:/2.596/68.741, 2.57033  Z0:/1.968/82.359, 7.45386

```

```

<-SCMVA-> <-Sym I''k rms-->
              /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6003 [PANII230  230.00] 3PH  5257.77 13198.2 -98.09

```

LG 5278.60 13250.4 -101.56
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/10.162/70.049, 2.75480 Z-:/10.099/71.160, 2.93073 Z0:/10.184/79.322, 5.30360

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6004 [PANII115 115.00] 3PH 3377.80 16958.0 -103.02
 LG 3407.30 17106.2 -107.02
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/4.005/71.958, 3.07005 Z-:/3.996/72.689, 3.20853 Z0:/3.958/83.294, 8.50517

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6005 [CHO230 230.00] 3PH 5002.57 12557.5 -99.10
 LG 4840.61 12151.0 -103.59
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/10.778/73.397, 3.35371 Z-:/10.642/75.200, 3.78492 Z0:/12.115/84.249, 9.92938

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6008 [LSA230 230.00] 3PH 5173.54 12986.7 -97.74
 LG 4640.87 11649.6 -100.22
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/10.430/76.889, 4.29352 Z-:/10.347/77.899, 4.66436 Z0:/14.135/82.278, 7.37487

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6009 [LSA115 115.00] 3PH 2215.85 11124.6 -104.38
 LG 2581.58 12960.7 -106.60
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/6.048/80.366, 5.89102 Z-:/6.007/81.102, 6.38720 Z0:/3.545/88.902, 52.16548

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6011 [MDN230 230.00] 3PH 4643.59 11656.4 -96.76
 LG 6153.03 15445.5 -94.90
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/11.518/82.618, 7.71893 Z-:/11.349/83.469, 8.73417 Z0:/3.354/65.081, 2.15243

 <-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
 6012 [MDN115      115.00] 3PH
                               LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	2361.08	11853.7	-99.83
LG	1098.67	5515.8	57.13

Z+:/5.695/84.851, 11.09646 Z-:/5.476/86.929, 18.63690 Z0:/47.259/-77.198, 4.40062

```

-----
<-SCMVA-> <-Sym I''k rms-->
X----- BUS -----X
 6014 [PRO230      230.00] 3PH
                               LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	3334.81	8371.1	-96.63
LG	3876.21	9730.1	-97.59

Z+:/16.012/84.482, 10.35073 Z-:/15.705/85.207, 11.92697 Z0:/9.617/87.430, 22.28306

```

-----
<-SCMVA-> <-Sym I''k rms-->
X----- BUS -----X
 6015 [PRO115      115.00] 3PH
                               LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	1205.45	6051.9	-100.15
LG	2404.20	12070.2	-100.25

Z+:/11.038/87.948, 27.90620 Z-:/10.638/89.081, 62.35167 Z0:/5.074/-89.997, 9999.999

```

-----
<-SCMVA-> <-Sym I''k rms-->
X----- BUS -----X
 6018 [CAC115      115.00] 3PH
                               LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	5036.64	25286.1	-98.05
LG	5522.48	27725.3	-102.00

Z+:/2.649/67.811, 2.45179 Z-:/2.636/68.839, 2.58337 Z0:/1.997/80.912, 6.25130

```

-----
<-SCMVA-> <-Sym I''k rms-->
X----- BUS -----X
 6024 [CHI115      115.00] 3PH
                               LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	2008.16	10081.8	-103.93
LG	1855.93	9317.6	-101.64

Z+:/6.567/73.465, 3.36836 Z-:/6.558/73.838, 3.45059 Z0:/8.225/67.231, 2.38246

```

-----
<-SCMVA-> <-Sym I''k rms-->
X----- BUS -----X
 6059 [LM1115      115.00] 3PH
                               LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	4154.68	20858.3	-103.45
LG	4494.99	22566.8	-104.77

Z+:/3.166/78.408, 4.87526 Z-:/3.141/79.111, 5.19834 Z0:/2.475/82.191, 7.29118

```

-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6060 [LM2115      115.00] 3PH   4118.96  20679.0 -103.44
                                LG      4470.30  22442.8 -104.82
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/3.193/78.377, 4.86170  Z-:/3.168/79.078, 5.18244  Z0:/2.470/82.387, 7.48149
-----

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6087 [CAL115      115.00] 3PH   1687.26   8470.8  -98.01
                                LG      1732.57   8698.3  -75.35
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/7.987/85.107, 11.68154  Z-:/7.853/85.839, 13.74402  Z0:/10.725/27.169, 0.51325
-----

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6088 [LES115      115.00] 3PH   1378.08   6918.6  -96.99
                                LG      1135.71   5701.8  -79.93
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/9.803/84.341, 10.09244  Z-:/9.679/84.852, 11.09931  Z0:/18.043/48.530, 1.13150
-----

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6092 [LVA115      115.00] 3PH   1564.67   7855.3  -97.56
                                LG      1466.01   7360.0  -77.37
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/8.612/84.768, 10.91996  Z-:/8.482/85.408, 12.44917  Z0:/13.024/37.193, 0.75884
-----

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6096 [FOR230      230.00] 3PH   4759.86  11948.3  -96.25
                                LG      5294.58  13290.6  -94.22
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/11.253/82.168, 7.27006  Z-:/11.161/82.698, 7.80414  Z0:/8.005/73.689, 3.41740
-----

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG

```



```

6100 [BAY230      230.00] 3PH   2024.74   5082.5  -102.85
                                LG   2123.99   5331.7  -107.76
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/26.595/74.420, 3.58649  Z-:/26.548/74.854, 3.69430  Z0:/23.498/90.000, 9999.999

```

```

-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
6169 [STR230      230.00] 3PH   3724.94   9350.4  -104.56
                                LG   3490.91   8763.0  -106.15
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/14.321/78.381, 4.86333  Z-:/14.276/79.009, 5.14880  Z0:/17.264/82.098, 7.20449

```

```

-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
6170 [CPA115      115.00] 3PH   1658.49   8326.4  -104.21
                                LG   1509.32   7577.5  -105.45
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/7.946/77.360, 4.45902  Z-:/7.929/77.641, 4.56367  Z0:/10.327/80.280, 5.83776

```

```

-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
6171 [PAC230      230.00] 3PH   3131.77   7861.4  -101.39
                                LG   2555.97   6416.1  -105.07
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/17.127/73.141, 3.29990  Z-:/17.076/73.800, 3.44193  Z0:/28.881/80.785, 6.16425

```

```

-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
6173 [STR115      115.00] 3PH   4721.59  23704.4  -103.55
                                LG   4755.43  23874.3  -104.68
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/2.804/79.589, 5.44255  Z-:/2.790/80.194, 5.78595  Z0:/2.761/82.408, 7.50257

```

```

-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
6179 [GUA230      230.00] 3PH   4759.92  11948.4  -97.02
                                LG   4836.97  12141.8  -96.60
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/11.254/82.758, 7.86887  Z-:/11.187/83.199, 8.38499  Z0:/10.787/81.016, 6.32535

```

```

<-SCMVA-> <-Sym I''k rms-->
                /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6182 [VEL230      230.00] 3PH  4841.94  12154.3  -98.10
                LG      4091.12  10269.6  -96.10
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/11.126/80.762, 6.14808  Z-:/11.036/81.447, 6.64902  Z0:/17.383/75.775, 3.94482

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
                /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6240 [EHIG230      230.00] 3PH  3233.73  8117.4  -101.30
                LG      2611.12  6554.5  -104.45
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/16.698/77.989, 4.70019  Z-:/16.617/78.815, 5.05719  Z0:/28.808/84.320, 10.05375

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
                /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6245 [BNGA230      230.00] 3PH  4384.27  11005.5 -100.16
                LG      4144.62  10403.9 -101.65
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/12.178/73.796, 3.44115  Z-:/12.121/74.740, 3.66550  Z0:/14.358/77.013, 4.33600

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
                /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6260 [CHA230      230.00] 3PH  2324.39  5834.7  -93.92
                LG      1791.31  4496.6  -93.00
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/23.184/82.069, 7.17776  Z-:/23.157/82.180, 7.28104  Z0:/43.922/80.117, 5.73966

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
                /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6261 [CHA115      115.00] 3PH  661.62  3321.6  -98.97
                LG      1060.42  5323.8  -98.61
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/20.133/86.325, 15.56888  Z-:/20.129/86.354, 15.69285  Z0:/2.590/-88.185, 31.56349

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
                /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6263 [ESP230      230.00] 3PH  2601.57  6530.5  -94.25
                LG      2955.99  7420.2  -92.89

```

THEVENIN IMPEDANCE, X/R (OHM) Z+:/20.731/83.144, 8.31647 Z-:/20.707/83.255, 8.45557 Z0:/13.351/77.369, 4.46236

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
X----- BUS -----X MVA AMP DEG
 6275 [CHG500 500.00] 3PH 4828.02 5574.9 -98.75
 LG 4688.79 5414.1 -94.61
THEVENIN IMPEDANCE, X/R (OHM) Z+:/52.693/82.714, 7.82122 Z-:/52.540/83.142, 8.31485 Z0:/58.393/70.709, 2.85702

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
X----- BUS -----X MVA AMP DEG
 6276 [CHG230 230.00] 3PH 5758.19 14454.3 -96.58
 LG 5887.58 14779.1 -90.24
THEVENIN IMPEDANCE, X/R (OHM) Z+:/9.295/83.079, 8.23850 Z-:/9.263/83.468, 8.73410 Z0:/9.085/63.275, 1.98608

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
X----- BUS -----X MVA AMP DEG
 6290 [CATIII115 115.00] 3PH 3957.76 19869.7 -103.49
 LG 4239.21 21282.7 -105.56
THEVENIN IMPEDANCE, X/R (OHM) Z+:/3.326/78.576, 4.94856 Z-:/3.302/79.224, 5.25413 Z0:/2.698/84.919, 11.24650

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
X----- BUS -----X MVA AMP DEG
 6295 [CATIII 115 115.00] 3PH 3438.22 17261.4 -102.77
 LG 3217.25 16152.0 -103.77
THEVENIN IMPEDANCE, X/R (OHM) Z+:/3.804/77.175, 4.39280 Z-:/3.779/77.748, 4.60487 Z0:/4.614/79.326, 5.30565

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
X----- BUS -----X MVA AMP DEG
 6309 [PAN3 500 500.00] 3PH 5200.45 6005.0 -99.82
 LG 5242.00 6052.9 -102.66
THEVENIN IMPEDANCE, X/R (OHM) Z+:/48.774/75.558, 3.88305 Z-:/48.567/76.500, 4.16535 Z0:/48.074/83.185, 8.36794

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)

```

X----- BUS -----X          MVA      AMP      DEG
 6310 [PAN3 230   230.00] 3PH   5955.80  14950.4  -96.76
                               LG    6630.09  16643.0  -100.25
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/8.949/69.461, 2.66910  Z-:/8.878/70.772, 2.86709  Z0:/6.374/80.884, 6.23182

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
              /I/      AN(I)

```

```

X----- BUS -----X          MVA      AMP      DEG
 6311 [PAN3 115   115.00] 3PH   3662.68  18388.2  -102.16
                               LG    3428.10  17210.6  -106.90
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/3.637/72.681, 3.20689  Z-:/3.627/73.463, 3.36785  Z0:/4.449/84.554, 10.48883

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
              /I/      AN(I)

```

```

X----- BUS -----X          MVA      AMP      DEG
 6314 [SAB500     500.00] 3PH   4511.83  5209.8   -100.96
                               LG         0.00     0.0     0.00
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/56.380/76.936, 4.30947  Z-:/56.192/77.735, 4.59985  Z0:/0.2E+10/90.000, 9999.999

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
              /I/      AN(I)

```

```

X----- BUS -----X          MVA      AMP      DEG
 6315 [MET230     230.00] 3PH   530.22  1331.0   -109.68
                               LG    487.50  1223.7   -113.62
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/102.940/79.951, 5.64313  Z-:/102.922/80.069, 5.71131  Z0:/131.243/90.000, 9999.999

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
              /I/      AN(I)

```

```

X----- BUS -----X          MVA      AMP      DEG
 6317 [CHE         230.00] 3PH   2636.59  6618.4   -101.73
                               LG         0.00     0.0     0.00
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/20.412/73.303, 3.33375  Z-:/20.362/73.865, 3.45657  Z0:/0.53E+09/90.000, 9999.999

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
              /I/      AN(I)

```

```

X----- BUS -----X          MVA      AMP      DEG
 6318 [SAB230     230.00] 3PH   2930.18  7355.4   -104.35
                               LG         0.00     0.0     0.00
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/18.413/81.897, 7.02346  Z-:/18.389/82.336, 7.43163  Z0:/0.53E+09/90.000, 9999.999

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
X----- BUS -----X          /I/   AN(I)
          MVA      AMP      DEG
6340 [CAN230      230.00] 3PH  4225.44  10606.8  -95.92
          LG      4657.16  11690.5  -90.05
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/12.654/82.092, 7.19949  Z-:/12.615/82.396, 7.49069  Z0:/9.685/60.314, 1.75415
-----

<-SCMVA-> <-Sym I''k rms-->
X----- BUS -----X          /I/   AN(I)
          MVA      AMP      DEG
6350 [PM115-8     115.00] 3PH  4025.93  20211.9  -99.27
          LG      3959.41  19878.0  -102.19
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/3.284/68.103, 2.48791  Z-:/3.273/68.941, 2.59705  Z0:/3.479/75.730, 3.93187
-----

<-SCMVA-> <-Sym I''k rms-->
X----- BUS -----X          /I/   AN(I)
          MVA      AMP      DEG
6380 [BOQIII230   230.00] 3PH  3194.94  8020.0   -96.74
          LG      3338.65  8380.7   -99.11
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/16.726/83.970, 9.46596  Z-:/16.520/84.531, 10.44516  Z0:/14.845/91.040, 55.07364
-----

<-SCMVA-> <-Sym I''k rms-->
X----- BUS -----X          /I/   AN(I)
          MVA      AMP      DEG
6400 [FRONTCHA    230.00] 3PH  1731.21  4345.7   -93.54
          LG      1279.44  3211.7   -91.66
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/31.169/81.676, 6.83488  Z-:/31.142/81.759, 6.90429  Z0:/64.283/77.935, 4.67836
-----

<-SCMVA-> <-Sym I''k rms-->
X----- BUS -----X          /I/   AN(I)
          MVA      AMP      DEG
6401 [PM230-29    230.00] 3PH  3752.77  9420.3   -96.92
          LG      2875.38  7217.8   -94.35
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/14.270/82.810, 7.92714  Z-:/14.214/83.128, 8.29716  Z0:/27.454/77.420, 4.48112
-----

<-SCMVA-> <-Sym I''k rms-->
X----- BUS -----X          /I/   AN(I)
          MVA      AMP      DEG
6440 [DOM230      230.00] 3PH  2141.89  5376.6   -97.01

```

LG 2602.40 6532.6 -96.46
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/24.840/84.151, 9.76099 Z-:/24.412/84.403, 10.20437 Z0:/12.098/80.842, 6.20283

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6441 [PRIM230 230.00] 3PH 1662.52 4173.3 -95.91
 LG 1687.90 4237.0 -94.23
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/31.976/83.118, 8.28523 Z-:/31.566/83.284, 8.49196 Z0:/31.037/77.826, 4.63551

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6460 [ECO230 230.00] 3PH 3550.09 8911.5 -99.87
 LG 3655.44 9175.9 -102.17
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/15.183/78.978, 5.13385 Z-:/15.126/79.632, 5.46553 Z0:/13.986/85.568, 12.90160

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6470 [24DIC230 230.00] 3PH 3779.05 9486.2 -98.61
 LG 3081.05 7734.1 -102.56
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/14.150/70.315, 2.79521 Z-:/14.089/71.113, 2.92297 Z0:/23.946/78.453, 4.89449

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6485 [ANT230 230.00] 3PH 3528.26 8856.7 -100.23
 LG 3883.73 9749.0 -102.85
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/15.495/79.200, 5.24202 Z-:/15.421/80.005, 5.67394 Z0:/11.402/87.859, 26.75450

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6500 [FRONTDOM 230.00] 3PH 2067.53 5190.0 -96.29
 LG 2331.95 5853.7 -92.62
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/25.775/83.574, 8.87903 Z-:/25.400/83.836, 9.25910 Z0:/17.819/68.958, 2.59944

 <-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6601 [COP230      230.00] 3PH
                        LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	3647.45	9155.9	-98.94
LG	2921.97	7334.8	-102.81

Z+:/14.665/70.643, 2.84645 Z-:/14.605/71.414, 2.97391 Z0:/25.764/78.461, 4.89805

<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6760 [SBA230      230.00] 3PH
                        LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	3532.70	8867.9	-99.25
LG	2136.19	5362.3	-98.54

Z+:/15.326/80.816, 6.18518 Z-:/15.247/81.368, 6.58690 Z0:/45.471/79.444, 5.36627

<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6761 [SBA115      115.00] 3PH
                        LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	860.81	4321.7	-103.84
LG	871.35	4374.6	-104.63

Z+:/15.499/87.620, 24.06380 Z-:/15.488/87.726, 25.17900 Z0:/14.955/89.968, 1788.9318

<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6860 [BBL230      230.00] 3PH
                        LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	3818.67	9585.7	-98.92
LG	3103.94	7791.6	-99.35

Z+:/14.112/81.327, 6.55554 Z-:/14.027/81.871, 7.00132 Z0:/23.946/81.953, 7.07346

<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6985 [SVC-PAN3    230.00] 3PH
                        LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	5955.80	14950.4	-96.76
LG	6630.09	16643.0	-100.25

Z+:/8.949/69.461, 2.66910 Z-:/8.878/70.772, 2.86709 Z0:/6.374/80.884, 6.23182

<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6990 [REACTOR1    500.00] 3PH
                        LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	4828.02	5574.9	-98.75
LG	4688.79	5414.1	-94.61

Z+:/52.693/82.714, 7.82122 Z-:/52.540/83.142, 8.31485 Z0:/58.393/70.709, 2.85702

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6991 [REACTOR2   500.00] 3PH   5200.45   6005.0   -99.82
                                LG   5242.00   6052.9  -102.66
THEVENIN IMPEDANCE, X/R (OHM) Z+:/48.774/75.558, 3.88305 Z-:/48.567/76.500, 4.16535 Z0:/48.074/83.185, 8.36794
-----

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6992 [REACTOR3   500.00] 3PH   4828.02   5574.9   -98.75
                                LG   4688.79   5414.1   -94.61
THEVENIN IMPEDANCE, X/R (OHM) Z+:/52.693/82.714, 7.82122 Z-:/52.540/83.142, 8.31485 Z0:/58.393/70.709, 2.85702
-----

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6993 [REACTOR4   500.00] 3PH   5200.45   6005.0   -99.82
                                LG   5242.00   6052.9  -102.66
THEVENIN IMPEDANCE, X/R (OHM) Z+:/48.774/75.558, 3.88305 Z-:/48.567/76.500, 4.16535 Z0:/48.074/83.185, 8.36794
-----

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6995 [SVC-LSA    230.00] 3PH   5173.54  12986.7   -97.74
                                LG   4640.87  11649.6  -100.22
THEVENIN IMPEDANCE, X/R (OHM) Z+:/10.430/76.889, 4.29352 Z-:/10.347/77.899, 4.66436 Z0:/14.135/82.278, 7.37487
-----

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6997 [SVC-PAN2   230.00] 3PH   5257.77  13198.2   -98.09
                                LG   5278.60  13250.4  -101.56
THEVENIN IMPEDANCE, X/R (OHM) Z+:/10.162/70.049, 2.75480 Z-:/10.099/71.160, 2.93073 Z0:/10.184/79.322, 5.30360
-----

```


Año 2025 – Época Lluviosa en Demanda Máxima

OUTPUT FOR AREA 6 [PANAMA] OWNER 20 [ETESA]

OPTIONS USED:

- SET PRE-FAULT VOLTAGES AND PHASE SHIFT ANGLES TO POWER FLOW SOLUTION
- SET SYNCHRONOUS/ASYNCHRONOUS MACHINE POWER OUTPUTS TO POWER FLOW SOLUTION
- SET GENERATOR POSITIVE SEQUENCE REACTANCES TO SUBTRANSIENT
- TRANSFORMER TAP RATIOS AND PHASE SHIFT ANGLES UNCHANGED
- LINE CHARGING REPRESENTED IN +/-0 SEQUENCES
- LINE/FIXED/SWITCHED SHUNTS AND TRANSFORMER MAGNETIZING ADMITTANCE REPRESENTED IN +/-0 SEQUENCES
- LOAD REPRESENTED IN +/-0 SEQUENCES
- DC LINES AND FACTS DEVICES BLOCKED
- IMPEDANCE CORRECTIONS NOT APPLIED TO TRANSFORMER ZERO SEQUENCE IMPEDANCES

```

                <-SCMVA-> <-Sym I''k rms-->
                        /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6000 [FRONTPRO  230.00] 3PH  2870.67  7206.0  -92.97
                        LG  2827.80  7098.4  -94.08
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/18.517/83.693, 9.04780  Z-:/18.246/84.313, 10.04088  Z0:/19.642/86.308, 15.49860
  
```

```

                <-SCMVA-> <-Sym I''k rms-->
                        /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6001 [PAN230    230.00] 3PH  4593.23  11530.0 -102.34
                        LG  5407.10  13573.0 -107.81
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/11.456/60.801, 1.78933  Z-:/11.373/62.829, 1.94822  Z0:/6.678/81.656, 6.81792
  
```

```

                <-SCMVA-> <-Sym I''k rms-->
                        /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6002 [PAN115    115.00] 3PH  3999.19  20077.7 -104.43
                        LG  4692.86  23560.2 -110.33
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/3.307/59.340, 1.68687  Z-:/3.293/61.085, 1.81039  Z0:/1.968/82.358, 7.45344
  
```

```

                <-SCMVA-> <-Sym I''k rms-->
                        /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6003 [PANII230  230.00] 3PH  4159.86  10442.2 -104.27
  
```

LG 4503.87 11305.7 -109.93
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/12.717/61.744, 1.86059 Z-:/12.646/63.561, 2.01102 Z0:/10.183/79.322, 5.30346

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6004 [PANII115 115.00] 3PH 2899.19 14555.2 -110.82
 LG 3078.25 15454.2 -116.73
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/4.632/64.977, 2.14228 Z-:/4.630/66.274, 2.27528 Z0:/3.958/83.294, 8.50525

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6005 [CHO230 230.00] 3PH 4022.75 10098.0 -105.36
 LG 4195.41 10531.4 -111.97
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/13.222/65.944, 2.24018 Z-:/13.070/68.462, 2.53368 Z0:/12.115/84.249, 9.92928

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6008 [LSA230 230.00] 3PH 4713.54 11832.0 -102.53
 LG 4393.50 11028.6 -106.89
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/11.447/72.058, 3.08834 Z-:/11.383/73.520, 3.38029 Z0:/14.135/82.278, 7.37487

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6009 [LSA115 115.00] 3PH 2151.22 10800.1 -111.36
 LG 2524.45 12673.8 -114.24
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/6.229/77.554, 4.53073 Z-:/6.200/78.514, 4.92116 Z0:/3.545/88.902, 52.16546

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6011 [MDN230 230.00] 3PH 4947.64 12419.7 -94.88
 LG 6487.66 16285.5 -93.06
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/10.740/81.608, 6.77879 Z-:/10.605/82.552, 7.64946 Z0:/3.354/65.081, 2.15243

 <-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
 6012 [MDN115      115.00] 3PH
                               LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	2394.71	12022.5	-96.45
LG	1082.83	5436.3	60.34

Z+:/5.570/84.602, 10.58347 Z-:/5.364/86.702, 17.35593 Z0:/47.259/-77.198, 4.40062

<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
 6014 [PRO230      230.00] 3PH
                               LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	3406.06	8550.0	-92.99
LG	3932.46	9871.3	-94.15

Z+:/15.596/83.809, 9.21873 Z-:/15.323/84.605, 10.58913 Z0:/9.617/87.430, 22.28306

<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
 6015 [PRO115      115.00] 3PH
                               LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	1211.16	6080.6	-96.85
LG	2420.20	12150.5	-96.79

Z+:/10.927/87.227, 20.64887 Z-:/10.548/88.465, 37.32882 Z0:/5.074/-89.997, 9999.999

<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
 6018 [CAC115      115.00] 3PH
                               LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	3942.29	19792.0	-104.68
LG	4615.68	23172.7	-110.21

Z+:/3.352/59.516, 1.69873 Z-:/3.338/61.234, 1.82157 Z0:/1.997/80.911, 6.25095

<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
 6024 [CHI115      115.00] 3PH
                               LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	1786.03	8966.7	-116.11
LG	1718.21	8626.2	-115.75

Z+:/7.326/68.993, 2.60416 Z-:/7.321/69.772, 2.71387 Z0:/8.202/67.295, 2.38997

<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
 6059 [LM1115      115.00] 3PH
                               LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	2859.92	14358.1	-117.08
LG	3399.08	17064.9	-119.95

Z+:/4.560/71.236, 2.94361 Z-:/4.508/72.596, 3.19026 Z0:/2.473/82.184, 7.28516

```

-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6060 [LM2115      115.00] 3PH  2853.14  14324.0 -117.14
                                LG      3394.68  17042.8 -120.03
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/4.572/71.312, 2.95633  Z-:/4.520/72.668, 3.20426  Z0:/2.468/82.380, 7.47464
-----

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6087 [CAL115      115.00] 3PH  1694.70   8508.1  -92.35
                                LG      1732.98   8700.3  -69.62
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/7.918/84.965, 11.35088  Z-:/7.791/85.701, 13.30132  Z0:/10.725/27.169, 0.51325
-----

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6088 [LES115      115.00] 3PH  1382.25   6939.5  -91.12
                                LG      1135.16   5699.0  -74.06
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/9.741/84.225, 9.88779  Z-:/9.624/84.739, 10.85925  Z0:/18.043/48.530, 1.13150
-----

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6092 [LVA115      115.00] 3PH  1570.73   7885.8  -91.81
                                LG      1465.90   7359.4  -71.59
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/8.546/84.635, 10.64833  Z-:/8.423/85.278, 12.10718  Z0:/13.024/37.193, 0.75884
-----

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG
  6096 [FOR230      230.00] 3PH  5690.35  14284.0  -95.61
                                LG      6003.39  15069.8  -93.30
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/9.345/82.100, 7.20616  Z-:/9.289/82.719, 7.82656  Z0:/8.005/73.689, 3.41739
-----

                                <-SCMVA-> <-Sym I''k rms-->
                                /I/      AN(I)
X----- BUS -----X          MVA      AMP      DEG

```

```

6100 [BAY230      230.00] 3PH   2008.35   5041.4  -113.52
                                LG   2113.82   5306.1  -119.41
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/26.671/71.528, 2.99363  Z-:/26.663/72.314, 3.13610  Z0:/23.498/90.000, 9999.999

```

```

-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/   AN(I)
X----- BUS -----X           MVA     AMP     DEG
6169 [STR230      230.00] 3PH   2856.89   7171.4  -114.06
                                LG   2933.92   7364.8  -118.24
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/18.434/70.327, 2.79705  Z-:/18.377/71.591, 3.00461  Z0:/17.262/82.097, 7.20372

```

```

-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/   AN(I)
X----- BUS -----X           MVA     AMP     DEG
6170 [CPA115      115.00] 3PH   1448.59   7272.6  -119.64
                                LG   1385.31   6954.9  -122.23
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/9.026/73.745, 3.42976  Z-:/9.000/74.408, 3.58356  Z0:/10.327/80.286, 5.84171

```

```

-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/   AN(I)
X----- BUS -----X           MVA     AMP     DEG
6171 [PAC230      230.00] 3PH   2750.33   6903.9  -110.07
                                LG   2375.59   5963.2  -116.08
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/19.308/67.510, 2.41536  Z-:/19.278/68.683, 2.56261  Z0:/28.881/80.785, 6.16417

```

```

-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/   AN(I)
X----- BUS -----X           MVA     AMP     DEG
6173 [STR115      115.00] 3PH   2848.83  14302.3  -115.98
                                LG   3307.62  16605.7  -119.15
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/4.602/70.782, 2.86868  Z-:/4.569/72.059, 3.08844  Z0:/2.760/82.405, 7.49937

```

```

-----
                                <-SCMVA-> <-Sym I''k rms-->
                                /I/   AN(I)
X----- BUS -----X           MVA     AMP     DEG
6179 [GUA230      230.00] 3PH   5118.85  12849.4  -96.71
                                LG   5061.51  12705.5  -96.60
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/10.392/81.884, 7.01208  Z-:/10.351/82.429, 7.52331  Z0:/10.787/81.016, 6.32535

```

```

<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6182 [VEL230      230.00] 3PH  4689.62  11772.0  -99.80
          LG      4019.77  10090.5  -99.14
THEVENIN IMPEDANCE, X/R (OHM) Z+:/11.538/77.929, 4.67621 Z-:/11.472/78.871, 5.08360 Z0:/17.383/75.775, 3.94482

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6240 [EHIG230      230.00] 3PH  2957.31  7423.5  -108.34
          LG      2482.52  6231.7  -113.39
THEVENIN IMPEDANCE, X/R (OHM) Z+:/18.117/73.724, 3.42496 Z-:/18.065/74.990, 3.72954 Z0:/28.808/84.320, 10.05374

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6245 [BNGA230      230.00] 3PH  3728.49  9359.3  -106.83
          LG      3726.77  9355.0  -110.73
THEVENIN IMPEDANCE, X/R (OHM) Z+:/14.168/66.949, 2.35005 Z-:/14.125/68.499, 2.53858 Z0:/14.358/77.013, 4.33595

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6260 [CHA230      230.00] 3PH  2313.43  5807.2  -95.07
          LG      1780.15  4468.6  -94.48
THEVENIN IMPEDANCE, X/R (OHM) Z+:/23.123/81.416, 6.62444 Z-:/23.110/81.581, 6.75639 Z0:/43.922/80.117, 5.73966

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6261 [CHA115      115.00] 3PH  658.63  3306.6  -99.14
          LG      1055.58  5299.4  -98.78
THEVENIN IMPEDANCE, X/R (OHM) Z+:/20.111/86.152, 14.86721 Z-:/20.110/86.193, 15.02793 Z0:/2.590/-88.185, 31.56349

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
 6263 [ESP230      230.00] 3PH  2591.00  6504.0  -95.21
          LG      2940.83  7382.1  -94.03

```

THEVENIN IMPEDANCE, X/R (OHM) Z+:/20.677/82.487, 7.58258 Z-:/20.666/82.653, 7.75621 Z0:/13.351/77.369, 4.46236

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
X----- BUS -----X MVA AMP DEG
 6275 [CHG500 500.00] 3PH 4634.60 5351.6 -100.97
 LG 4538.27 5240.3 -97.98
THEVENIN IMPEDANCE, X/R (OHM) Z+:/54.356/79.920, 5.62532 Z-:/54.309/80.592, 6.03553 Z0:/58.393/70.709, 2.85702

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
X----- BUS -----X MVA AMP DEG
 6276 [CHG230 230.00] 3PH 5753.68 14443.0 -97.39
 LG 5843.24 14667.8 -91.78
THEVENIN IMPEDANCE, X/R (OHM) Z+:/9.199/80.893, 6.23813 Z-:/9.185/81.460, 6.65956 Z0:/9.085/63.275, 1.98608

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
X----- BUS -----X MVA AMP DEG
 6290 [CATIII115 115.00] 3PH 2741.89 13765.5 -117.30
 LG 3231.35 16222.8 -120.76
THEVENIN IMPEDANCE, X/R (OHM) Z+:/4.759/71.536, 2.99497 Z-:/4.710/72.833, 3.23710 Z0:/2.697/84.917, 11.24161

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
X----- BUS -----X MVA AMP DEG
 6295 [CATIII 115 115.00] 3PH 2509.86 12600.6 -117.36
 LG 2617.41 13140.6 -120.34
THEVENIN IMPEDANCE, X/R (OHM) Z+:/5.167/71.010, 2.90593 Z-:/5.118/72.195, 3.11370 Z0:/4.608/79.326, 5.30566

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
X----- BUS -----X MVA AMP DEG
 6309 [PAN3 500 500.00] 3PH 4398.47 5078.9 -104.34
 LG 4670.12 5392.6 -109.27
THEVENIN IMPEDANCE, X/R (OHM) Z+:/56.845/68.395, 2.52504 Z-:/56.717/69.937, 2.73809 Z0:/48.073/83.185, 8.36784

<-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)


```

X----- BUS -----X          MVA      AMP      DEG
 6310 [PAN3 230   230.00] 3PH   4661.58  11701.6  -102.09
                               LG     5522.23  13862.0  -107.24
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/11.305/60.987, 1.80305  Z-:/11.223/63.021, 1.96439  Z0:/6.374/80.883, 6.23163

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
              /I/      AN(I)

```

```

X----- BUS -----X          MVA      AMP      DEG
 6311 [PAN3 115   115.00] 3PH   3102.31  15575.0  -109.82
                               LG     3090.80  15517.1  -116.67
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/4.253/65.871, 2.23253  Z-:/4.248/67.230, 2.38245  Z0:/4.449/84.554, 10.48868

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
              /I/      AN(I)

```

```

X----- BUS -----X          MVA      AMP      DEG
 6314 [SAB500     500.00] 3PH   3922.83  4529.7   -106.26
                               LG         0.00     0.0     0.00
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/63.955/70.637, 2.84550  Z-:/63.879/71.972, 3.07261  Z0:/0.2E+10/90.000, 9999.999

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
              /I/      AN(I)

```

```

X----- BUS -----X          MVA      AMP      DEG
 6315 [MET230     230.00] 3PH   521.48   1309.0   -122.58
                               LG     481.39   1208.4   -126.94
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/103.874/78.906, 5.09992  Z-:/103.936/79.121, 5.20298  Z0:/131.243/90.000, 9999.999

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
              /I/      AN(I)

```

```

X----- BUS -----X          MVA      AMP      DEG
 6317 [CHE         230.00] 3PH   2465.58  6189.1   -111.33
                               LG         0.00     0.0     0.00
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/21.667/68.972, 2.60134  Z-:/21.646/69.984, 2.74511  Z0:/0.53E+09/90.000, 9999.999

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
              /I/      AN(I)

```

```

X----- BUS -----X          MVA      AMP      DEG
 6318 [SAB230     230.00] 3PH   2737.34  6871.3   -111.77
                               LG         0.00     0.0     0.00
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/19.492/78.147, 4.76462  Z-:/19.509/78.900, 5.09717  Z0:/0.53E+09/90.000, 9999.999

```

```

-----
                <-SCMVA-> <-Sym I''k rms-->
                /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
6340 [CAN230      230.00] 3PH  4265.99  10708.6  -96.99
                        LG  4665.94  11712.5  -91.46
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/12.409/80.681, 6.09370  Z-:/12.390/81.106, 6.39010  Z0:/9.685/60.314, 1.75415
-----

                <-SCMVA-> <-Sym I''k rms-->
                /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
6350 [PM115-8      115.00] 3PH  3339.78  16767.1  -106.77
                        LG  3495.18  17547.3  -111.83
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/3.920/60.870, 1.79446  Z-:/3.912/62.323, 1.90656  Z0:/3.479/75.730, 3.93176
-----

                <-SCMVA-> <-Sym I''k rms-->
                /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
6380 [BOQIII230    230.00] 3PH  3279.40  8232.0   -93.73
                        LG  3391.07  8512.3   -96.35
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/16.186/83.383, 8.62010  Z-:/16.012/83.996, 9.50781  Z0:/14.845/91.040, 55.07364
-----

                <-SCMVA-> <-Sym I''k rms-->
                /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
6400 [FRONTCHA     230.00] 3PH  1721.82  4322.1   -94.85
                        LG  1270.95  3190.4   -93.23
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/31.110/81.189, 6.45129  Z-:/31.097/81.312, 6.54410  Z0:/64.283/77.935, 4.67836
-----

                <-SCMVA-> <-Sym I''k rms-->
                /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
6401 [PM230-29     230.00] 3PH  3893.79  9774.3   -97.29
                        LG  2915.35  7318.2   -95.13
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/13.641/81.924, 7.04792  Z-:/13.610/82.328, 7.42335  Z0:/27.454/77.420, 4.48112
-----

                <-SCMVA-> <-Sym I''k rms-->
                /I/      AN(I)
X----- BUS -----X      MVA      AMP      DEG
6440 [DOM230       230.00] 3PH  2147.89  5391.7   -93.73

```

LG 2606.84 6543.7 -93.27
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/24.745/83.740, 9.11558 Z-:/24.337/84.037, 9.57344 Z0:/12.098/80.842, 6.20283

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6441 [PRIM230 230.00] 3PH 1666.64 4183.6 -92.50
 LG 1690.12 4242.6 -90.93
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/31.891/82.809, 7.92593 Z-:/31.498/83.010, 8.15611 Z0:/31.037/77.826, 4.63551

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6460 [ECO230 230.00] 3PH 3289.88 8258.3 -108.02
 LG 3467.45 8704.1 -111.59
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/16.308/74.895, 3.70497 Z-:/16.280/75.933, 3.99081 Z0:/13.986/85.568, 12.90156

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6470 [24DIC230 230.00] 3PH 3218.31 8078.7 -106.75
 LG 2817.09 7071.5 -113.20
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/16.463/64.090, 2.05846 Z-:/16.410/65.479, 2.19220 Z0:/23.946/78.453, 4.89442

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6485 [ANT230 230.00] 3PH 3213.89 8067.6 -108.63
 LG 3618.13 9082.3 -112.34
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/16.787/75.055, 3.74647 Z-:/16.740/76.294, 4.10031 Z0:/11.402/87.859, 26.75447

 <-SCMVA-> <-Sym I''k rms-->
 /I/ AN(I)
 X----- BUS -----X MVA AMP DEG
 6500 [FRONTDOM 230.00] 3PH 2076.12 5211.5 -92.99
 LG 2336.57 5865.3 -89.43
 THEVENIN IMPEDANCE, X/R (OHM) Z+:/25.620/83.171, 8.34973 Z-:/25.266/83.476, 8.74362 Z0:/17.819/68.958, 2.59944

 <-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6601 [COP230      230.00] 3PH
                        LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	3129.90	7856.7	-107.22
LG	2686.31	6743.2	-113.60

Z+:/16.934/64.579, 2.10396 Z-:/16.884/65.928, 2.23848 Z0:/25.763/78.461, 4.89798

-----<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6760 [SBA230      230.00] 3PH
                        LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	3381.89	8489.3	-102.81
LG	2110.26	5297.2	-103.74

Z+:/16.175/78.140, 4.76182 Z-:/16.122/78.938, 5.11479 Z0:/45.471/79.444, 5.36627

-----<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6761 [SBA115      115.00] 3PH
                        LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	850.42	4269.5	-107.44
LG	863.13	4333.3	-108.44

Z+:/15.630/87.045, 19.37198 Z-:/15.628/87.199, 20.43737 Z0:/14.955/89.968, 1788.9318

-----<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6860 [BBL230      230.00] 3PH
                        LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	3717.42	9331.5	-101.44
LG	3062.77	7688.2	-102.98

Z+:/14.545/78.995, 5.14215 Z-:/14.486/79.757, 5.53416 Z0:/23.946/81.953, 7.07346

-----<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6985 [SVC-PAN3    230.00] 3PH
                        LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	4661.58	11701.6	-102.09
LG	5522.23	13862.0	-107.24

Z+:/11.305/60.987, 1.80305 Z-:/11.223/63.021, 1.96439 Z0:/6.374/80.883, 6.23163

-----<-SCMVA-> <-Sym I''k rms-->

```

X----- BUS -----X
6990 [REACTOR1    500.00] 3PH
                        LG
THEVENIN IMPEDANCE, X/R (OHM)

```

	MVA	/I/ AMP	AN (I) DEG
3PH	4634.60	5351.6	-100.97
LG	4538.27	5240.3	-97.98

Z+:/54.356/79.920, 5.62532 Z-:/54.309/80.592, 6.03553 Z0:/58.393/70.709, 2.85702

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6991 [REACTOR2   500.00] 3PH   4398.47  5078.9  -104.34
                                LG   4670.12  5392.6  -109.27
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/56.845/68.395, 2.52504  Z-:/56.717/69.937, 2.73809  Z0:/48.073/83.185, 8.36784
-----

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6992 [REACTOR3   500.00] 3PH   4634.60  5351.6  -100.97
                                LG   4538.27  5240.3  -97.98
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/54.356/79.920, 5.62532  Z-:/54.309/80.592, 6.03553  Z0:/58.393/70.709, 2.85702
-----

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6993 [REACTOR4   500.00] 3PH   4398.47  5078.9  -104.34
                                LG   4670.12  5392.6  -109.27
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/56.845/68.395, 2.52504  Z-:/56.717/69.937, 2.73809  Z0:/48.073/83.185, 8.36784
-----

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6995 [SVC-LSA    230.00] 3PH   4713.54  11832.0 -102.53
                                LG   4393.50  11028.6 -106.89
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/11.447/72.058, 3.08834  Z-:/11.383/73.520, 3.38029  Z0:/14.135/82.278, 7.37487
-----

```

```

-----
<-SCMVA-> <-Sym I''k rms-->
          /I/   AN(I)
X----- BUS -----X      MVA      AMP      DEG
  6997 [SVC-PAN2   230.00] 3PH   4159.86  10442.2 -104.27
                                LG   4503.87  11305.7 -109.93
THEVENIN IMPEDANCE, X/R (OHM)  Z+:/12.717/61.744, 1.86059  Z-:/12.646/63.561, 2.01102  Z0:/10.183/79.322, 5.30346
-----

```