

PSCAD

The screenshot displays the PSCAD software interface. The main workspace shows a power system schematic with various components like buses, transformers, and generators. A 'Build Messages' window is open, showing several error messages related to transformer models. Below the schematic, a 'Network Table' is visible, listing bus parameters.

Type	Id	Component	Namespace	Description
Warning	1226276278	TRANSFORMER2W	(I = 1184, J = 1189, CKT = 1)	Positive sequence reactance X = 0 (0.00000 pu)
Warning	1226276278	TRANSFORMER2W	(I = 1184, J = 1189, CKT = 1)	Vector group YNd0 is unrecognized.
Warning	1258926442	TRANSFORMER2W	(I = 1185, J = 1282, CKT = 1)	Positive sequence reactance X = 0 (0.00000 pu)
Warning	1258926442	TRANSFORMER2W	(I = 1185, J = 1282, CKT = 1)	Vector group YNd0 is unrecognized.

Bus Number	Name	Base Voltage (k-V)	Bus Type	Area	Zone	Owner	Voltage Magnitude	Voltage Angle
ink 1177	AN19A_HV	345	PQ Bus	Area_5	-- None --	-- None --	1.00198	27.8468
ink 1178	AN19B_HV	345	PQ Bus	Area_5	-- None --	-- None --	0.99282	21.1392
ink 1179	AN20_MV	230	PQ Bus	Area_5	-- None --	-- None --	1.0201	26.2134

PRSIM

PRSIM imports power system data from standard network database formats, such as PSS/E and DigSilent PowerFactory into PSCAD. PSCAD case projects may be produced in either V5 or v4.6 formats.

PowerFactory
PSSE



PRSIM



PSCAD

PRSIM Features

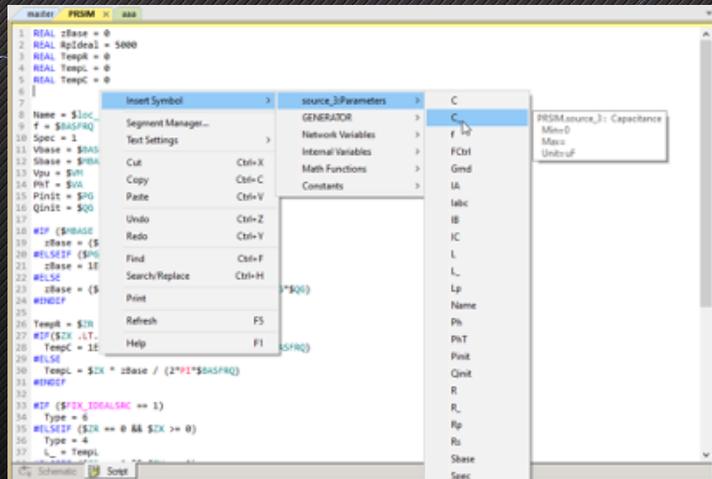
- Convert PSS/E and PowerFactory data files to PSCAD V5 and V4.6.
- Import detailed dynamic data.
- Import sequence data.
- Import location data for auto-routing and seamless graphical representation.
- Form network equivalents for unexpanded segments of the network.
- Re-initialize the generated PSCAD project.

```

1 REAL zBase = 0
2 REAL RpIdeal = 5000
3 REAL TempR = 0
4 REAL TempL = 0
5 REAL TempC = 0
6
7 Name = $loc_name
8 f = $BASFRQ
9 Spsc = 1
10 Vb = PRSIM.source_3: Specified Parameters
11 Sbl 0 = Behind the Source Impedance
12 Vpl 1 = At the Terminal
13 PhI = vvm
14 Pinit = $PG / $MBASE
15 Qinit = $QG / $MBASE
16
17 #IF ($MBASE != 0)
18 zBase = ($BASKV*$BASKV) / $MBASE
19 #ELSEIF ($PG == 0 && $QG == 0)
20 zBase = 1EG
21 #ELSE
22 zBase = ($BASKV*$BASKV) / sqrt($PG*$PG + $QG*$QG)
23 #ENDIF
24
25 TempR = $ZR * zBase
26 #IF ($ZX .LT. 0)
27 TempC = 1EG/(ABS($ZX) * zBase * 2 * PI * $BASFRQ)
28 #ELSE

```

Script to transform PSSE generator parameters to PSCAD source.



New menu tooltips in script editor