How Do I Import Loadshape Data?

From OpenDSSWiki

Question

I am trying to import a year's worth (8760 values) of hourly load/source data into my model from a csv file. I already have the data in p.u. form. Do you know of a way to do that?

Answer

You have a couple of options. First, you should extract the column(s) of interest from the CSV file and paste into separate files. If the data intervals are irregular, put both the time (hr) and multiplier, one to a line. If the intervals are regular, you should put only the multiplier, one to a line.

For a regular interval, which is typical, you would define the loadshape like this:

```
New Loadshape.MyRegularShape  npts=10000 interval=1.0 csvfile=my-1-value-csvfile.csv
```

When OpenDSS reads the file it will reset the npts property to the number of points found in the file. So just make sure you specify at least as many points as you need.

For an irregular interval file, you would define like this:

```
New Loadshape.MyirregularShape  npts=10000 interval=0.0 csvfile=my-2-value-csvfile.csv
```

where the values on each line are *time, multiplier*. The values may be separated by commas or whitespace.

You do not need to have the data in per unit form. The program will normalize the shape data to 1.0 per unit.

The *mult* and *qmult* properties of the Loadshape are standard OpenDSS Array properties. So you can also use the format

```
New Loadshape.MyRegularShape  npts=10000 interval=1.0 mult=(file=my-1-value-csvfile.csv)
```

See this link in the Wiki describing capabilities in recent versions:

New Ways to Import Loadahapes (http://sourceforge.net/apps/mediawiki/electricdss/index.php?title=TechNote_New_ways_to_import_loadshapes)

Check out the *OpenDSS Loadshape Usage.doc* file in the source code repository:

OpenDSS Loadahape Usage.Doc
(http://electricdss.svn.sourceforge.net/viewvc/electricdss/Doc/OpenDSS%20LOADSHAPE%20Usage.doc?
view=log)

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