

How do I do reconfiguration studies?

From OpenDSSWiki

Question

Is there a way to do a network reconfiguration study using OpenDSS? I've read nothing about this kind of study in the wiki and in the doc. If it's not the case, do you plan adding this capability to OpenDSS in the future?

Thank you,

Marc André Master's student

Answer

Yes, there is a way to do a reconfiguration study. In fact, there are many ways to do one.

However, there is no *reconfigure* command or function in the program. Part of the reason is that there is not just one way to do it. There are many possible ways. Therefore, we have not built in a method.

Instead, we will drive the OpenDSS from another program that implements the algorithm we wish to use. You can find an excerpt here (<http://electricdss.svn.sourceforge.net/viewvc/electricdss/Examples/Excel/>) from Tom McDermott's ppt presentation in our Nov 2009 Workshop that illustrates nicely how to do a Branch Exchange method in Excel VBA. Look for the file named "Loss Minimization – Branch Exchange.ppt".

In this way, you can be very creative developing your own algorithm in Excel, Matlab, or whatever and testing it on an example circuit to see how it works. You tell it how to reconfigure and the OpenDSS will tell you how the distribution system will respond.

--Rdugan 17:59, 25 March 2011 (UTC)

Retrieved from "http://localhost/mediawiki/index.php?title=How_do_I_do_reconfiguration_studies%3F&oldid=527"

-
- This page was last modified on 25 March 2011, at 10:08.
 - This page has been accessed 307 times.