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‑­Priyanshu Rouniyar­ (­priyanshurouniyar3@gmail.com­)­ - 11:18 AM­

Q: ­Is anybody talking or my microphone is not working?­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 11:19 AM­

A: ­We are on our practice session.­‑

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‑­Priyanshu Rouniyar­ (­priyanshurouniyar3@gmail.com­)­ - 11:20 AM­

Q: ­I mean you all are muted ? yes . no body is talking­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 11:20 AM­

A: ­We are, but only we can hear each other. ­‑

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‑­Priyanshu Rouniyar­ (­priyanshurouniyar3@gmail.com­)­ - 11:21 AM­

Q: ­Okay thank you, thats What i wana confirm­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 11:22 AM­

A: ­No problem.­‑

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‑­Hamid A­ (­habdelkamel1@gmail.com­)­ - 11:27 AM­

Q: ­Good morning. Will this session be recorded? Thanks.­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 11:28 AM­

A: ­You will find the video recordings at this link: https://www.epri.com/pages/sa/opendss­‑

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‑­Hamid A­ (­habdelkamel1@gmail.com­)­ - 11:31 AM­

Q: ­I do not remmeber if I requested PDHs when I regostered. Can I still get PDHs? Thanks.­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 11:32 AM­

A: ­You might need to reach out to Arin.­‑

‑­Paulo Radatz (internal)­­­­ - 11:33 AM­

A: ­Arin will check if you have registered, if not, she will include your name. :)­‑

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‑­Hamid A­ (­habdelkamel1@gmail.com­)­ - 11:31 AM­

Q: ­\*registered­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 11:32 AM­

A: ­No problem.­‑

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‑­yashar.kenarangui­ (­yashar.e.kenarangui@xcelenergy.com­)­ - 11:36 AM­

Q: ­How often do put out updated version of OpenDSS. I think the latest version if 9.4.2. Is this version vastly different from the previous version 9.4.1.2? Thanks.­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 11:38 AM­

A: ­I asked Davis this question last week. The answer is: it depends on if we have an update or not. ­‑

‑­Paulo Radatz (internal)­­­­ - 11:40 AM­

A: ­What is the differences you have seen? What do you mean by vastly?­‑

‑­Celso Rocha (internal)­­­­ - 11:45 AM­

A: ­There is a ReadMe.txt file which can be accessed directly in sourceforge. This way you can know if the latest changes affect the features you are currently using and help you deciding whether you should update to the latest version or not.­‑

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‑­Silvano Luis M. Pereira­ (­menezesluis340@gmail.com­)­ - 9:10 AM­

Q: ­Hii­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 11:38 AM­

A: ­Hi Silvano, thanks for joing this meeting.­‑

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‑­Silvano Luis M. Pereira­ (­menezesluis340@gmail.com­)­ - 9:13 AM­

Q: ­Your Welcome, Paulo Radatz.­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 11:40 AM­

A: ­:)­‑

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‑­Arun Nair­ (­ArunSukumaranNair@eaton.com­)­ - 11:42 AM­

Q: ­Hello Good morning­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 11:42 AM­

A: ­Good morning, happy to have you here with us.­‑

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‑­Arun Nair­ (­ArunSukumaranNair@eaton.com­)­ - 11:42 AM­

Q: ­Will these slides be shared with the participants?­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 11:42 AM­

A: ­You can find the virtual training resources at this link: https://sourceforge.net/p/electricdss/code/HEAD/tree/trunk/Training/Virtual-2022/­‑

‑­Andres Ovalle (internal)­­­­ - 11:43 AM­

A: ­They will along with the rcordings and the supporting material­‑

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‑­yashar.kenarangui­ (­yashar.e.kenarangui@xcelenergy.com­)­ - 11:42 AM­

Q: ­Thanks Paul. OpenDSS software is updated frequency, just want to understand your philosophy in putting out the updates. I think I got my answer.­

Priority: ­N/A­‑

‑­Celso Rocha (internal)­­­­ - 11:46 AM­

A: ­There is a ReadMe.txt file which can be accessed directly in sourceforge. This way you can know if the latest changes affect the features you are currently using and help you deciding whether you should update to the latest version or not.­‑

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‑­Arun Nair­ (­ArunSukumaranNair@eaton.com­)­ - 11:42 AM­

Q: ­thank you­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 11:44 AM­

A: ­No problem­‑

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‑­Angelo­ (­atafarelbruchdeoliveira@cpfl.com.br­)­ - 11:45 AM­

Q: ­Paulo, can you confirm the beginning of the presentation in Brazilian time? Thanks!­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 11:45 AM­

A: ­12:30 no horário de Brasilia. ­‑

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‑­Hamid A­ (­habdelkamel1@gmail.com­)­ - 11:46 AM­

Q: ­There are cases where due to protection, you cannot have a delta stabilizing winding, I will emphasize if there is a delta stabilizing winding to be designed properly using system imepdance (not 30% of main winding size).­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 11:49 AM­

A: ­Thanks for your input.­‑

‑­Andres Ovalle (internal)­­­­ - 12:03 PM­

A: ­Hi Hamid, do you mind elaborating on this a bit more?

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‑­Angelo­ (­atafarelbruchdeoliveira@cpfl.com.br­)­ - 11:46 AM­

Q: ­Paulo, can you confirm the beginning of the presentation in Brazilian time? Thanks!­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 11:46 AM­

A: ­12:30 no horário de Brasilia. 1130 am ET­‑

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‑­PETER STEPHENS­ (­peter.stephens@hydroone.com­)­ - 11:46 AM­

Q: ­Hydro One is same as Europe when defining distribution system­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 11:49 AM­

A: ­Thanks for your input.­‑

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‑­Akhtar Hussain Javed­ (­a.h.javed@tue.nl­)­ - 12:04 PM­

Q: ­How accurate results would be if someone ignores transformer and other connections?­

Priority: ­N/A­‑

‑­Davis Montenegro Martinez (internal)­­­­ - 12:06 PM­

A: ­It all depends on the element's features. If the element you are removing from the model has features that can drastically alter the model, such as impedance, etc. That will make a huge difference, as a wise man use to say, it all depends!­‑

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‑­priyanshurouniyar3­ (­priyanshurouniyar3@gmail.com­)­ - 12:07 PM­

Q: ­I really want to know how to measure the transformer overloading with open DSS/G­

Priority: ­N/A­‑

‑­Davis Montenegro Martinez (internal)­­­­ - 12:08 PM­

A: ­There is a report for that called the DI reports-> Overloadreport, that report does it ­‑

‑­Davis Montenegro Martinez (internal)­­­­ - 12:08 PM­

A: ­We've discussed about it for a while at the forum­‑

‑­Paulo Radatz (internal)­­­­ - 12:09 PM­

A: ­OpenDSS Forum: https://sourceforge.net/p/electricdss/discussion/­‑

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‑­priyanshurouniyar3­ (­priyanshurouniyar3@gmail.com­)­ - 12:10 PM­

Q: ­Hope in the other session i can share my screen and discuss the problem­

Priority: ­N/A­‑

‑­Davis Montenegro Martinez (internal)­­­­ - 12:10 PM­

A: ­Post your question at the forum­‑

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‑­Pedro Eisenkraemer­ (­pedrokrameci@gmail.com­)­ - 12:12 PM­

Q: ­What are some of the recent hotopics in research that can use OpenDSS for simulation?­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 12:13 PM­

A: ­We will have some internal (EPRI) and external examples in Session 4.­‑

‑­Davis Montenegro Martinez (internal)­­­­ - 12:20 PM­

A: ­Since the DSS is a frequency domain simulator, the elements are modeled at the specific frequency values. For standard simulation modes such as daily, yearly, snap, there is only one frequency across the model. In harmonics however, we have an admittance matrix for solving the model at each harmonic programmed by the user.­‑

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‑­Luther Miller­ (­luther.c.miller@xcelenergy.com­)­ - 12:15 PM­

Q: ­Apologies if this has been asked already. Is there a program similar to MAI for the DRIVE tool that would convert Synergi or CYME files into a file type that can be read by OpenDSS and its GUI?­

Priority: ­N/A­‑

‑­Celso Rocha (internal)­­­­ - 12:17 PM­

A: ­Hi Luther, we will talk about model conversion in Session 4, on Thursday. Long story short, there are some open source tools available and some exporting features available within the vendor tools themselves.­‑

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‑­Mantosh Devgan­ (­mantosh.devgan@hydroone.com­)­ - 12:17 PM­

Q: ­Power System Components like Cables, Transformers etc. in OpenDSS are those frequency dependent models or RLC models?­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 12:19 PM­

A: ­The reactance of the elements depends on the frequency. In harmonic mode, OpenDSS calculates the Ymatrix of the system for all the considered frequencies. ­‑

‑­Davis Montenegro Martinez (internal)­­­­ - 12:21 PM­

A: ­Since the DSS is a frequency domain simulator, the elements are modeled at the specific frequency values. For standard simulation modes such as daily, yearly, snap, there is only one frequency across the model. In harmonics however, we have an admittance matrix for solving the model at each harmonic programmed by the user.­‑

‑­Davis Montenegro Martinez (internal)­­­­ - 12:21 PM­

A: ­I think I answered in the wrong place­‑

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‑­Mantosh Devgan­ (­mantosh.devgan@hydroone.com­)­ - 12:21 PM­

Q: ­Perfect. Thanks!­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 12:22 PM­

A: ­You're welcome!­‑

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‑­M Abeer Sohail­ (­mabeer.sohail21@gmail.com­)­ - 12:22 PM­

Q: ­What courses should undergraduate students have taken to get started with OpenDSS? ­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 12:23 PM­

A: ­Professor Robert will share his experiences with OpenDSS in his courses in Session 4. I would say you need to have power system analysis to start with OpenDSS.­‑

‑­Paulo Radatz (internal)­­­­ - 12:24 PM­

A: ­If you are starting with OpenDSS. My English OpenDSS Basic tutorial playlist on YouTube is at https://www.youtube.com/playlist?list=PLhdRxvt3nJ8yZH-xVuE-4mifMHRlJK2n3­‑

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‑­Arun Nair­ (­ArunSukumaranNair@eaton.com­)­ - 12:23 PM­

Q: ­Does OpenDSS-G works on top of OpenDSS to provide Graphical o/ps or is it a standalone version with all the functionalities?­

Priority: ­N/A­‑

‑­Davis Montenegro Martinez (internal)­­­­ - 12:24 PM­

A: ­It's on top of OpenDSS to provide GUI and to facilitate access to the advanced funtionalities included in DSS­‑

‑­Davis Montenegro Martinez (internal)­­­­ - 12:26 PM­

A: ­But you don't require OpenDSS to install OpenDSS-G. The integration is done through the Direct DLL­‑

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‑­Benedito Donizeti Bonatto­ (­bonatto@unifei.edu.br­)­ - 12:43 PM­

Q: ­Thank you very much!!!­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 12:43 PM­

A: ­You're welcome!­‑

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‑­Dol Raj Kunwar­ (­dkunwar@clemson.edu­)­ - 12:48 PM­

Q: ­PSCAD models load to be constant impedance type for voltage below 0.8 per unit, and above 1.2 pu. However, in Opendss, the load is constant Z type for voltages below 0.95 pu and above 1.05pu. Clearly, there is disparity of load models between these two softwares. Consequently, the simulation resutls of these two softwares are not the same. Could you please explain this? Thank you.­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 12:50 PM­

A: ­Hi Dol, you can change the defualt values by altering the values of the vlowpu, vminpu, and vmaxpu of PC elements, such as loads and generators. You can make them very small.­‑

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‑­Dol Raj Kunwar­ (­dkunwar@clemson.edu­)­ - 12:52 PM­

Q: ­Thank you for answering my query. Does this mean that the model of load provides user the flexibility of choosing voltage ranges in which it acts as non-linear and linear? Thanks.­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 12:53 PM­

A: ­Precisely. ­‑

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‑­Jozef Bendík­ (­jozef.bendik@stuba.sk­)­ - 12:52 PM­

Q: ­color resolution of comands an­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 12:53 PM­

A: ­-­‑

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‑­Jozef Bendík­ (­jozef.bendik@stuba.sk­)­ - 12:53 PM­

Q: ­color resolution of comands, examples and values is in newest opendss update ?­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 12:54 PM­

A: ­I am not sure if I got your question, let me try to answer that. You can find OpenDSS download folder with examples at https://sourceforge.net/p/electricdss/code/HEAD/tree/trunk/Version8/Distrib/ or on your Windows computer at C:\Program Files\OpenDSS­‑

‑­Paulo Radatz (internal)­­­­ - 1:05 PM­

A: ­You can follow the description on this link to have your Notepad++ or EditPlus showing OpenDSS scripts in color: https://sourceforge.net/p/electricdss/discussion/861976/thread/6f00ed40/?limit=25#fc6f­‑

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‑­Matheus Nunes­ (­mparanahibamacielnunes@cpfl.com.br­)­ - 1:00 PM­

Q: ­Hi, will this pptx be available? I could find only the first two on the sourcefourge https://sourceforge.net/p/electricdss/code/HEAD/tree/trunk/Training/Virtual-2022/session1/­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 1:01 PM­

A: ­We will have all of them uploaded by the end of the week. ­‑

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‑­priyanshurouniyar3­ (­priyanshurouniyar3@gmail.com­)­ - 1:02 PM­

Q: ­BusA.1.4 means also songle phase connection yes?­

Priority: ­N/A­‑

‑­Davis Montenegro Martinez (internal)­­­­ - 1:02 PM­

A: ­It depends on the number of phases of your element and the connection type­‑

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‑­priyanshurouniyar3­ (­priyanshurouniyar3@gmail.com­)­ - 1:02 PM­

Q: ­BusA.1.4 means also songle phase connection yes?­

Priority: ­N/A­‑

‑­Davis Montenegro Martinez (internal)­­­­ - 1:02 PM­

A: ­It depends on the number of phases of your element and the connection type­‑

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‑­priyanshurouniyar3­ (­priyanshurouniyar3@gmail.com­)­ - 1:05 PM­

Q: ­then node 4 means ground yes?­

Priority: ­N/A­‑

‑­Davis Montenegro Martinez (internal)­­­­ - 1:05 PM­

A: ­If yout element has only 3 phases, then 4 will be the gorunding terminal­‑

‑­Davis Montenegro Martinez (internal)­­­­ - 1:06 PM­

A: ­yout=your­‑

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‑­priyanshurouniyar3­ (­priyanshurouniyar3@gmail.com­)­ - 1:08 PM­

Q: ­the connection is wye and i have secondary bus as .1.2.3.4­

Priority: ­N/A­‑

‑­Davis Montenegro Martinez (internal)­­­­ - 1:08 PM­

A: ­gorunding=grounding­‑

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‑­Jozef Bendík­ (­jozef.bendik@stuba.sk­)­ - 1:27 PM­

Q: ­Are the power lines drawn as single lines or polylines in graphical plot of grid useing buscoordinates.­

Priority: ­N/A­‑

‑­Roger Dugan (internal)­­­­ - 1:27 PM­

A: ­Single lines between two buses­‑

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‑­Jose Jarque­ (­jjarque@cpsenergy.com­)­ - 1:27 PM­

Q: ­How is the dynamic data entered into DSS?­

Priority: ­N/A­‑

‑­Paulo Radatz (internal)­­­­ - 1:28 PM­

A: ­Sorry, I'm not getting it. Could you please elaborate?­‑

‑­Davis Montenegro Martinez (internal)­­­­ - 1:29 PM­

A: ­Are you talking about load profiles, solar irradiance, etc?­‑

‑­Davis Montenegro Martinez (internal)­­­­ - 1:29 PM­

A: ­are you talking about load profiles, solar irradiance, etc?­‑

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‑­Benedito Donizeti Bonatto­ (­bonatto@unifei.edu.br­)­ - 1:31 PM­

Q: ­Very nice introduction!! See you tomorrow!!!­

Priority: ­N/A­‑