

ESIG Webinar: Planning and Operating a System in Transition to IBR – Engineers Unite!

Question	Answer
Is running studies in EMT for entire large systems the necessary way for the future?	For some smaller systems we are doing that, and for larger systems we may get there eventually, but we're not there yet. We still need to rely on RMS tools for help understanding dynamic performance and focussing our EMT efforts for the foreseeable future.
Have there been any studies looking into IBRs raising load capacitance at nighttime? For example, with behind-the-meter solar.	Not sure I understand the question, sorry. We haven't done a study like this.
Are there any issues with IBR models where OEM went out of business and as software versions keep changing, those don't work anymore. Any solutions there?	Those are some very challenging situations, and they do occur. If you can't go back and get accurate models, you need to do your best to estimate or use proxy models or generic models. One of the best things you can do is adopt recommendations to get (and test) the models when the plants are being built, so you can minimize this issue down the road.
What would we need to do to have confidence in EMT simulations of high IBR systems which do not use real code? Could this be enabled by performance standards?	This is a topic of discussion among IEEE 2800.2 standard drafting groups right now. Real code models are definitely preferred, although care is needed with all models to ensure they are appropriate and parameterized for the application, and validation and verification processes on input models are also valuable even for real code models. When planning future systems, good quality generic models and proxy models are necessary.
How do we get a better acceptance of the reality that it takes money to do the analysis to the best of our ability. cost of study is noise v capital equipment	We're study consultants, so I wish I knew the answer!! :)
Do you see our positive sequence software tools being improved in the near future to perform better and more accurate studies?	Yes, they are improving all the time. Real-code DLL based approaches are being explored and used in some cases, and generic models are improving as well.
Collaboration succes story - collaboration between Utility, TO and OEM to blackstart transmission network using WTG Grid Forming converters in Scotland	Thank you!!
To what extent can T-D issues be improved by specifying new coordinated operating standards & procedures at the T-D interfaces?	Not sure I know enough about operating standards to answer this question properly. Seems like a good idea to me!