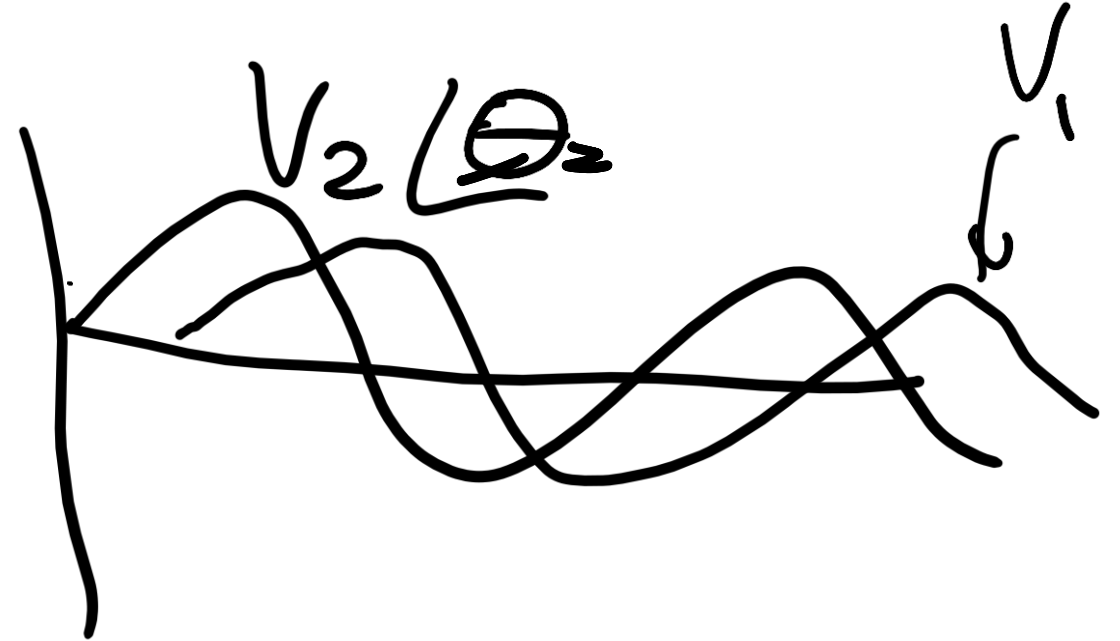


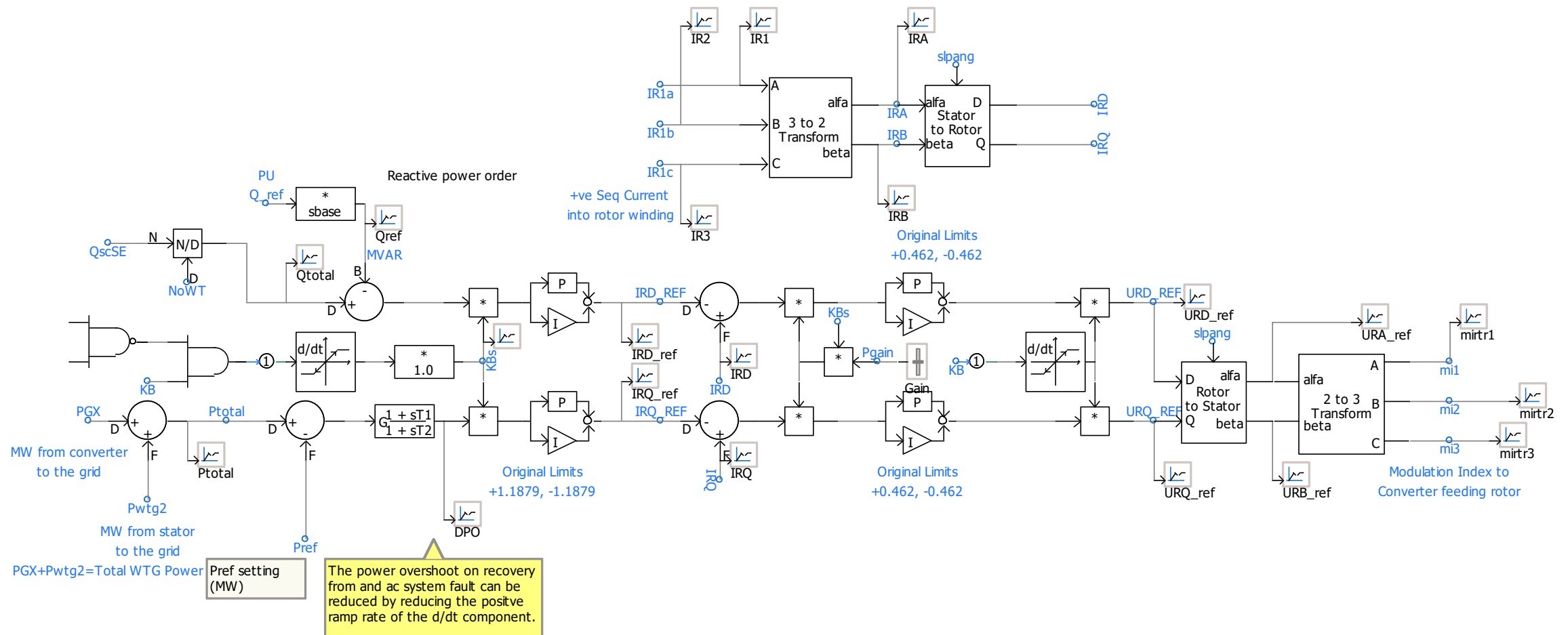
Introduction to IBR controls

Topic Change

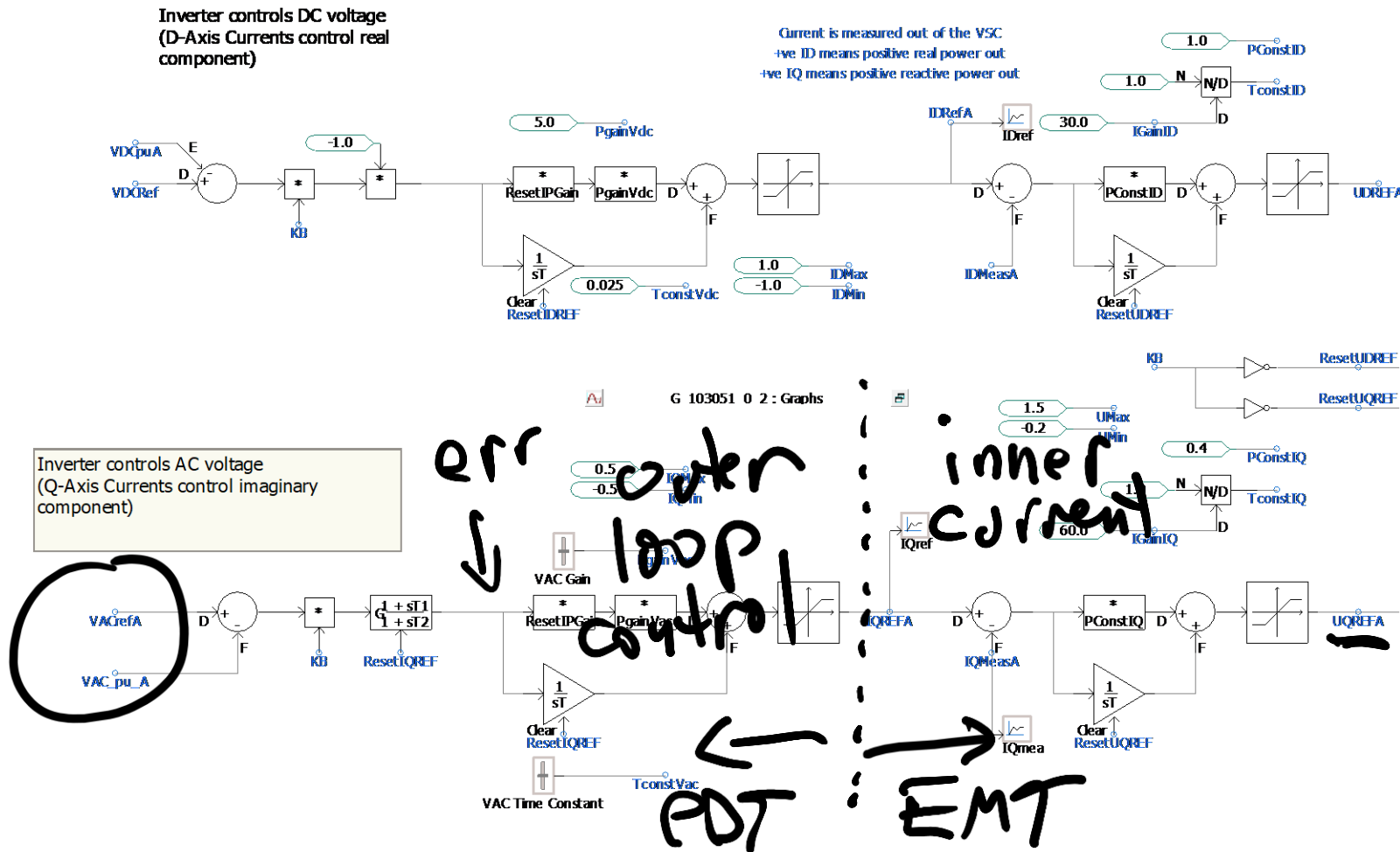
Reminder of high level VSC concept and control objective...



Outer and Inner Controls

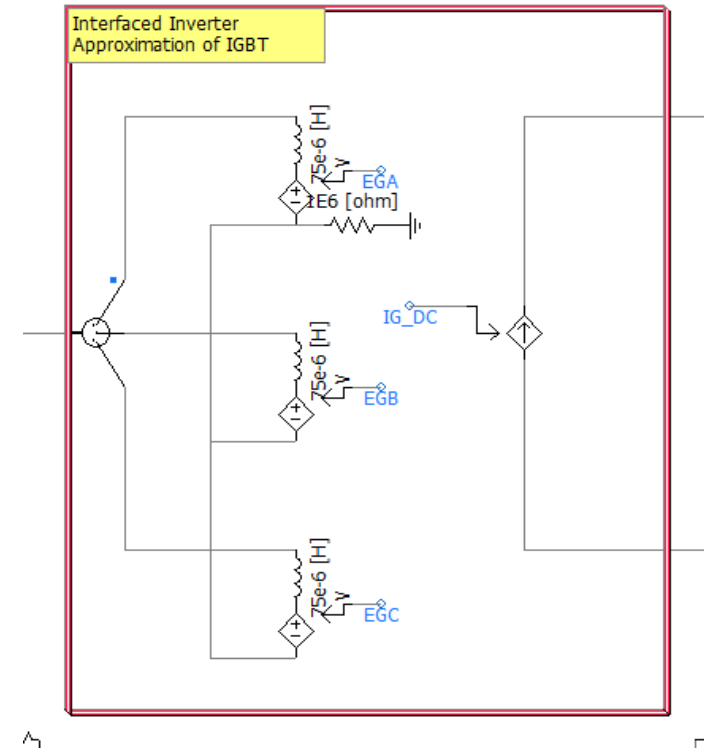
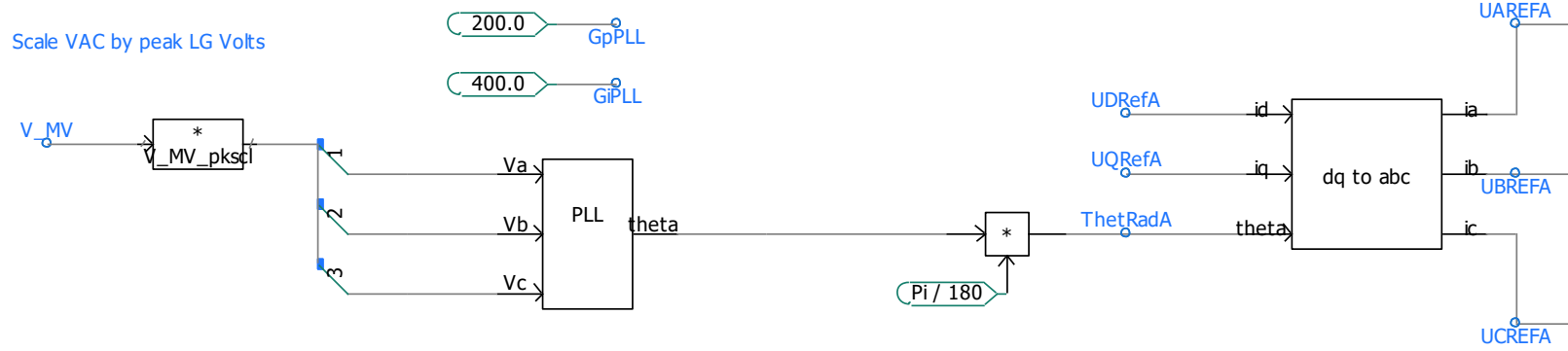


Outer and Inner Controls



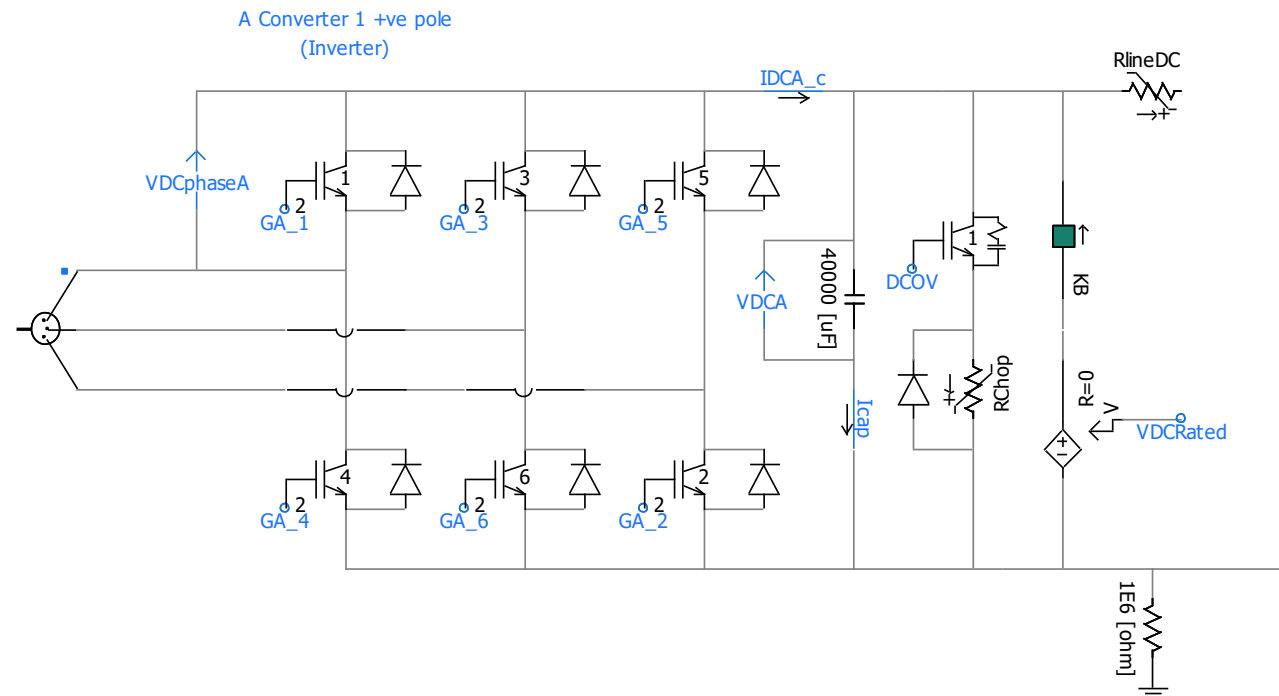
PLL and firing controls

- Simplified voltage source approximation of IGBT bridge (average source model):



PLL and firing controls

- Full IGBT representation:



PLL and firing controls

Full IGBT representation:

