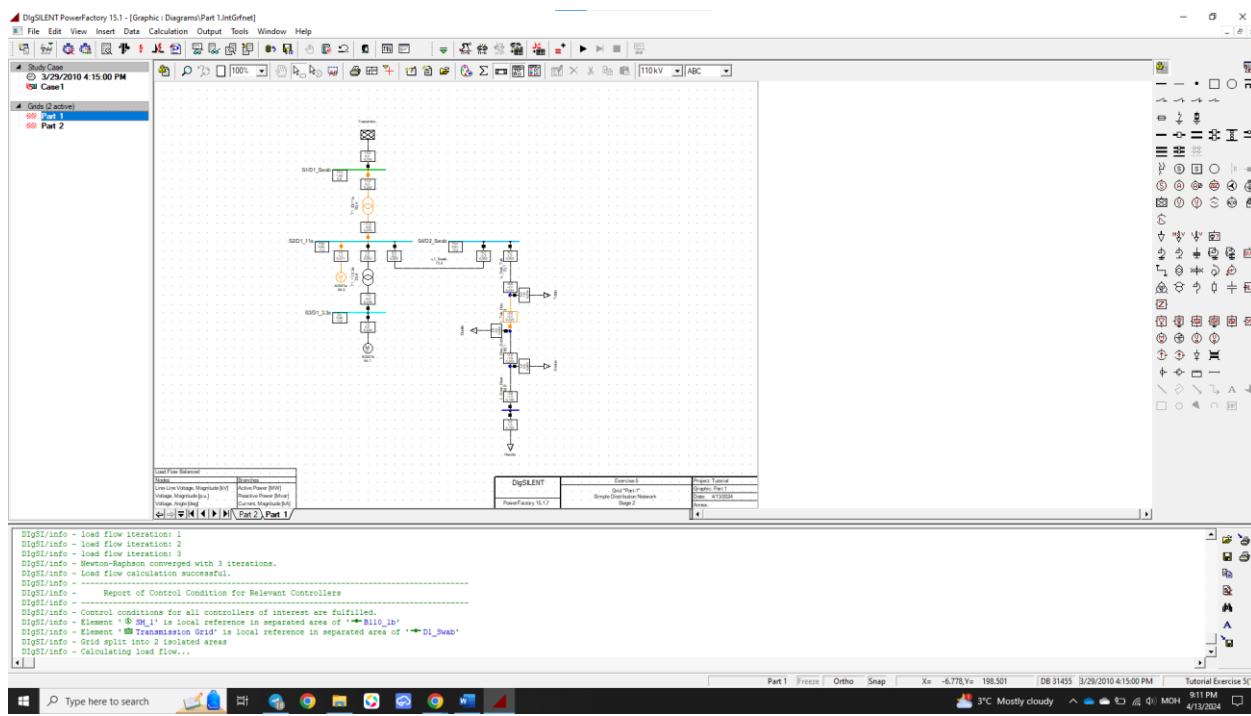
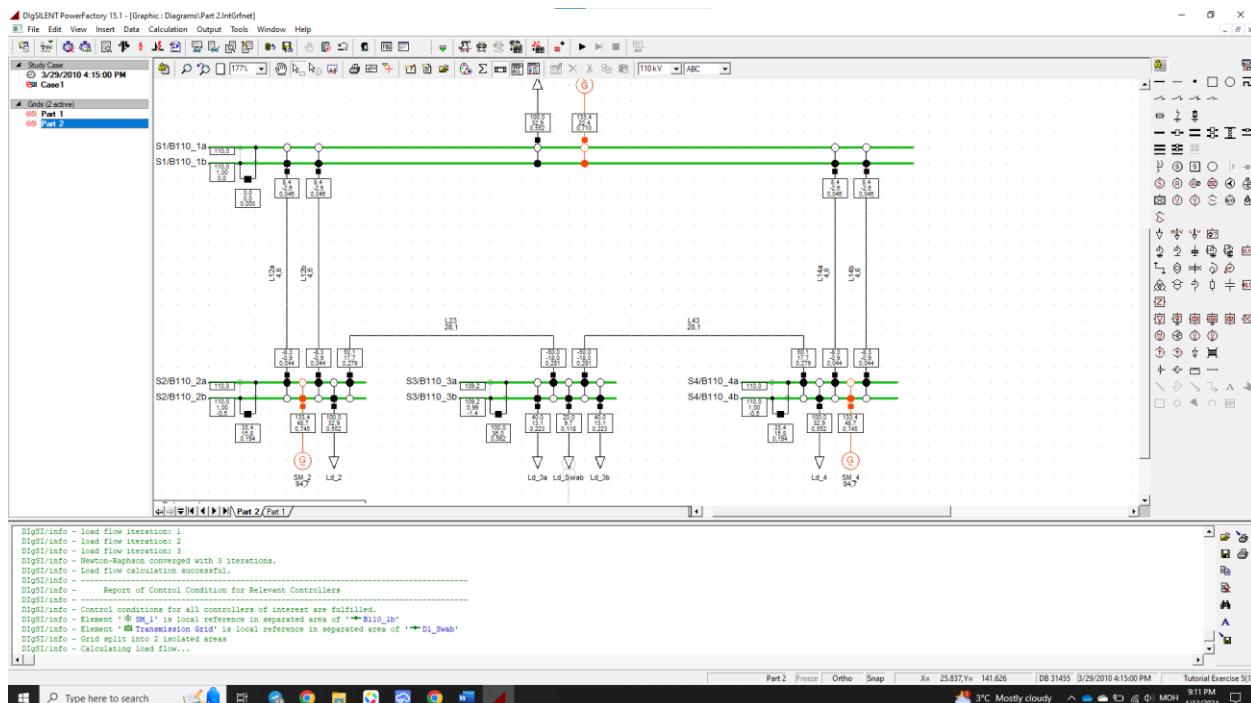
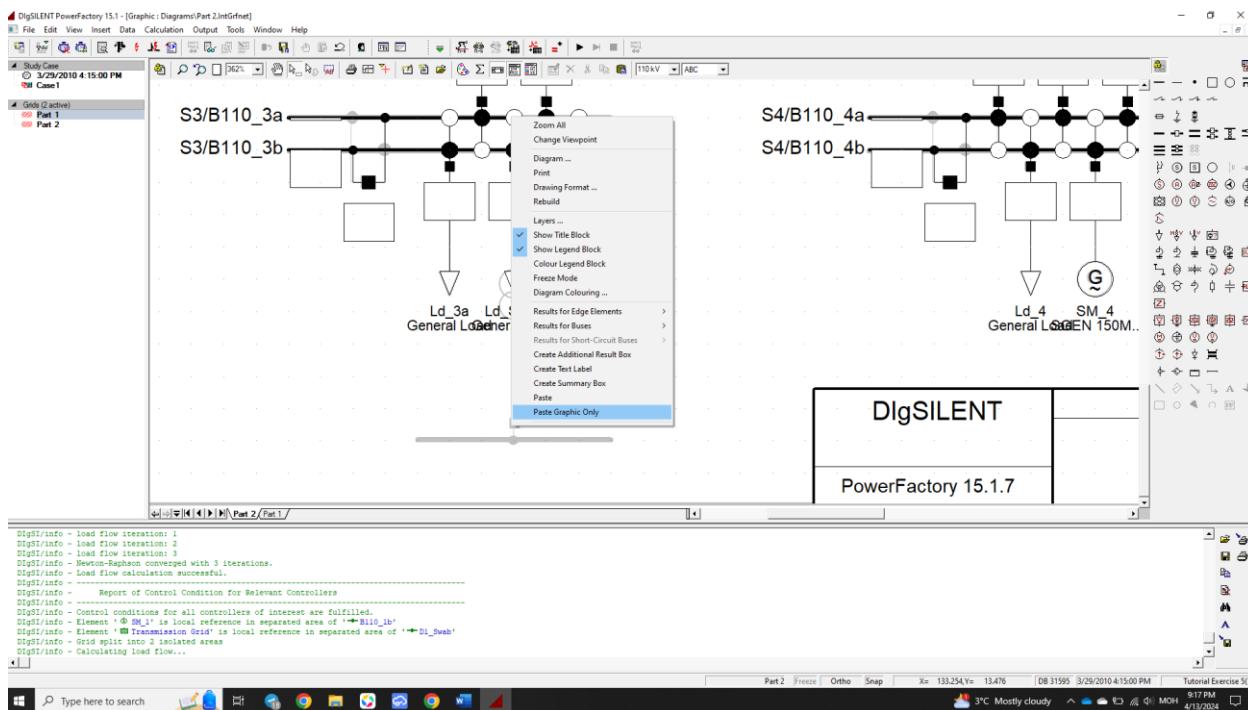
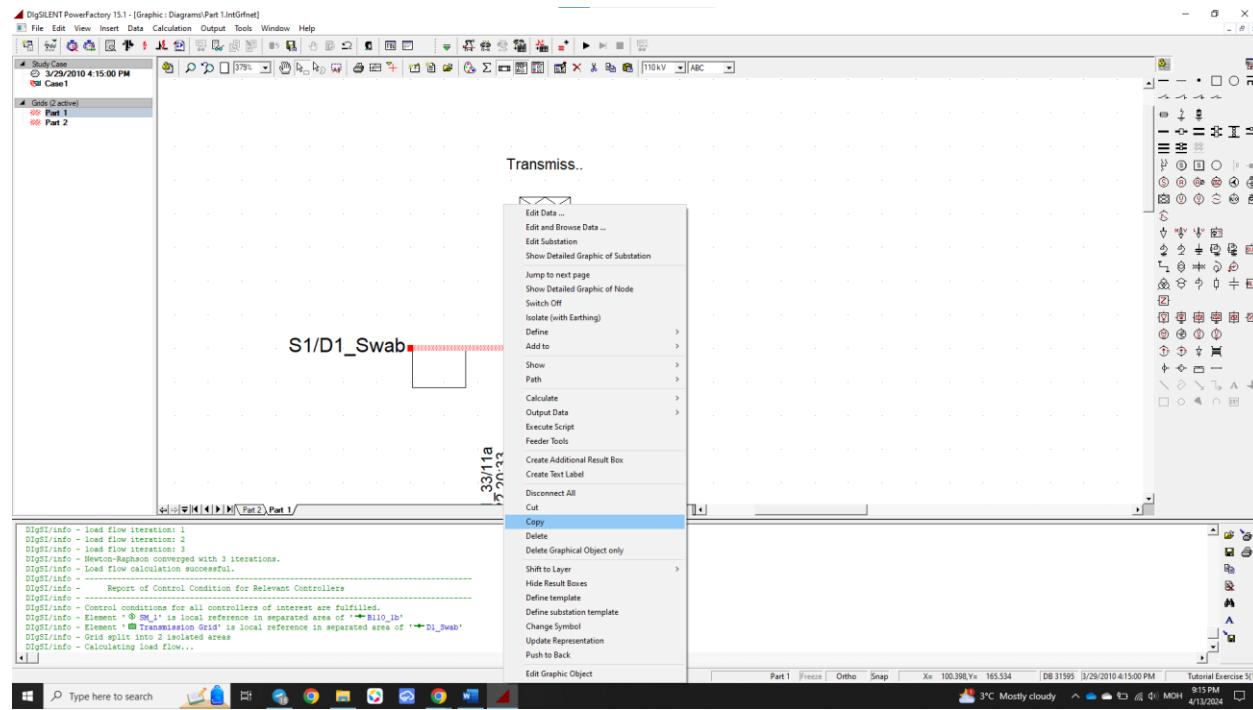


Exersice 5

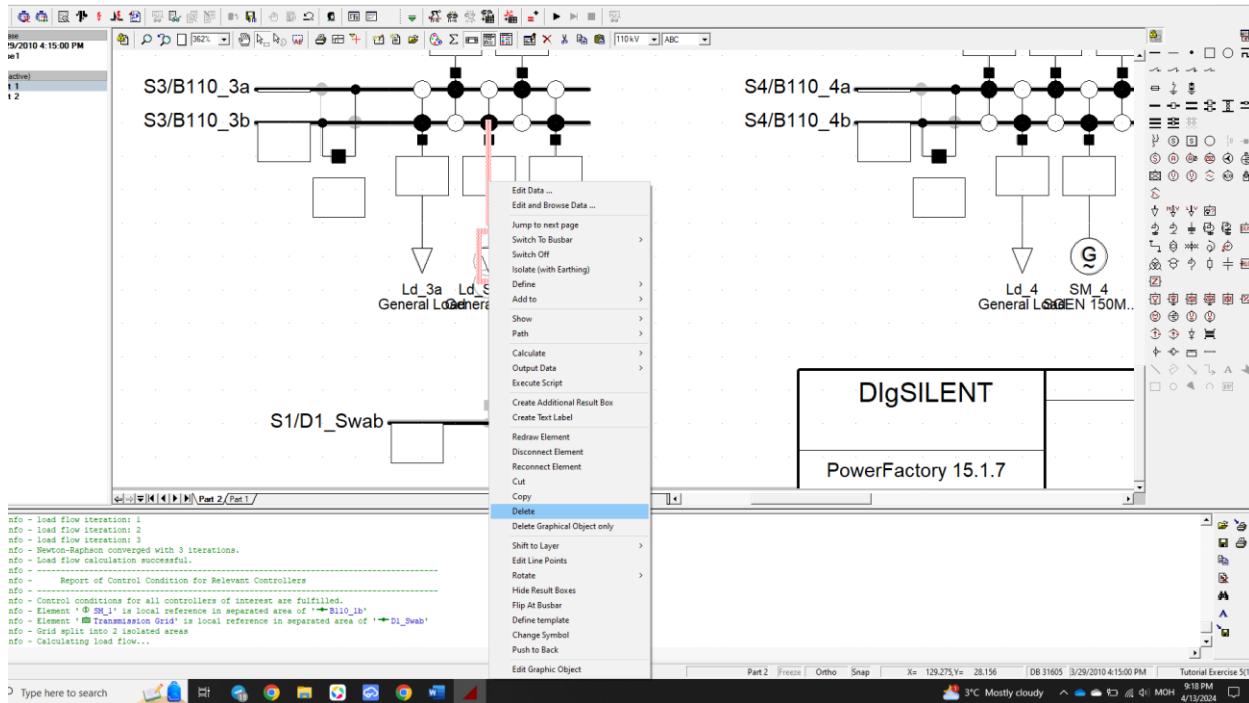
Энэ дасгал ажлаар 2 системийг/part1=>part2/ холбосон. Part 1 -ийн externeal grid буюу системийг part 2 дахь станц гэж үзэн холбосон. Үүний тулд part1 дээр part2-г залгаж зурахгүйгээр jump to ашиглан холбосон.



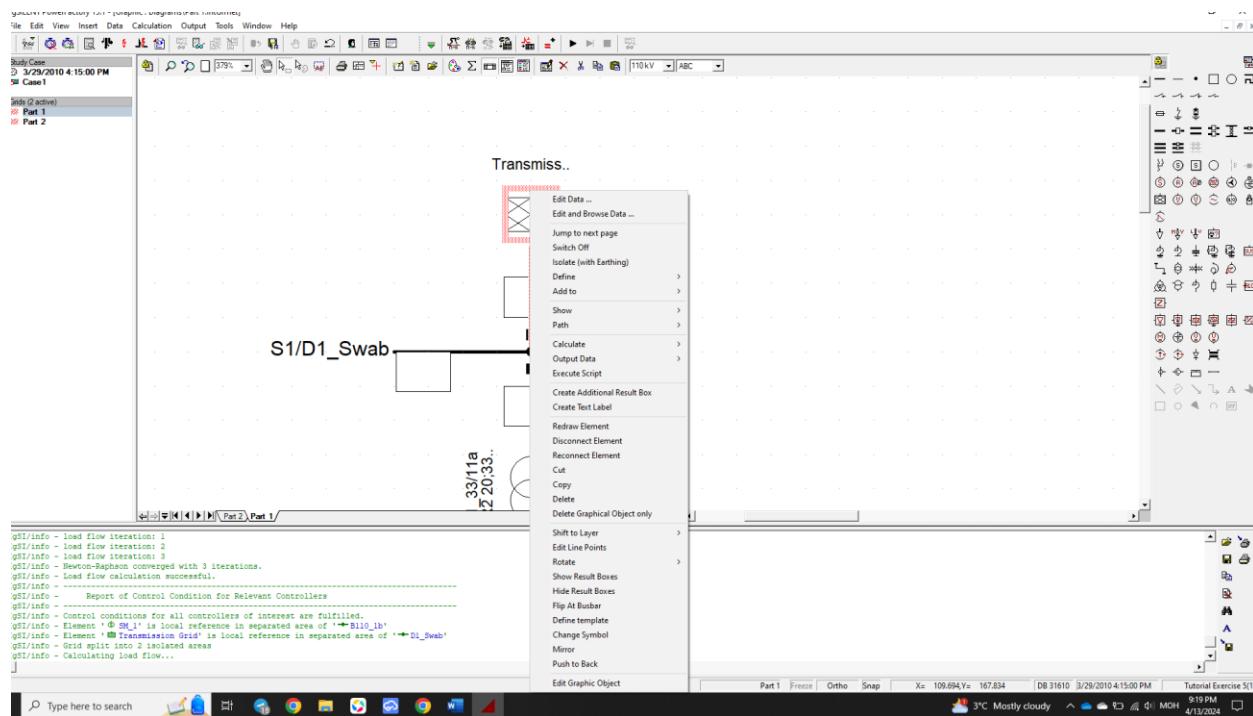
Үүний тулд part1-н D1_Swab шинийг хуулж part2 дээр paste graphic only-гоор хувилан тавьсан.



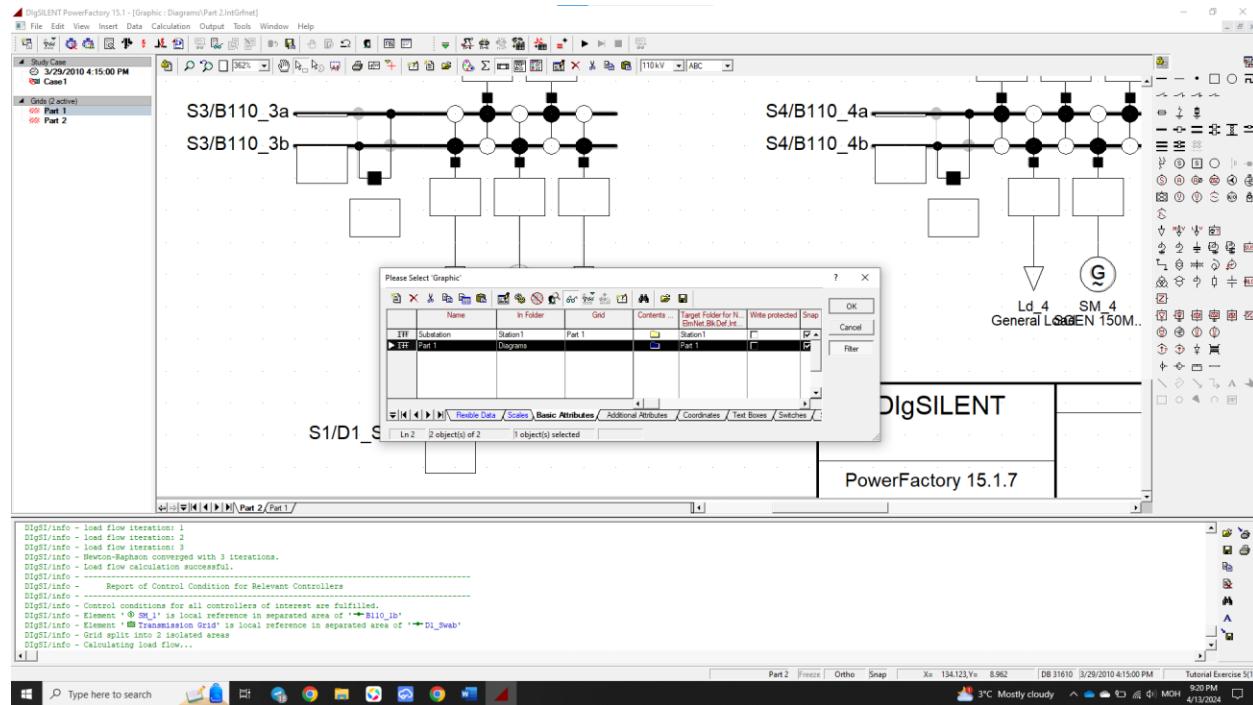
Дараагаар нь part2 дээр ачаалал гэж үзсэн ачааллыг устган оронд нь 2 ороомогт трансформатороор дамжуулан D1_Swab-тай холбосон.



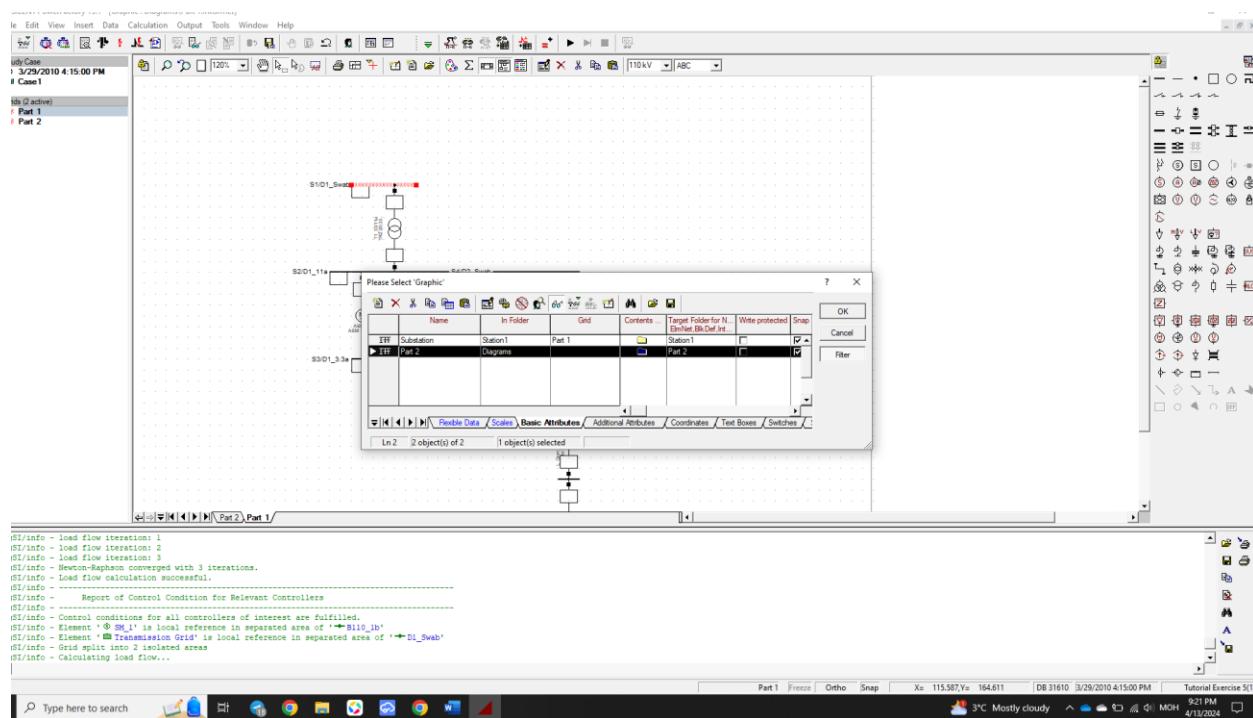
Мөн Part1 дээрх системийг устгасан.



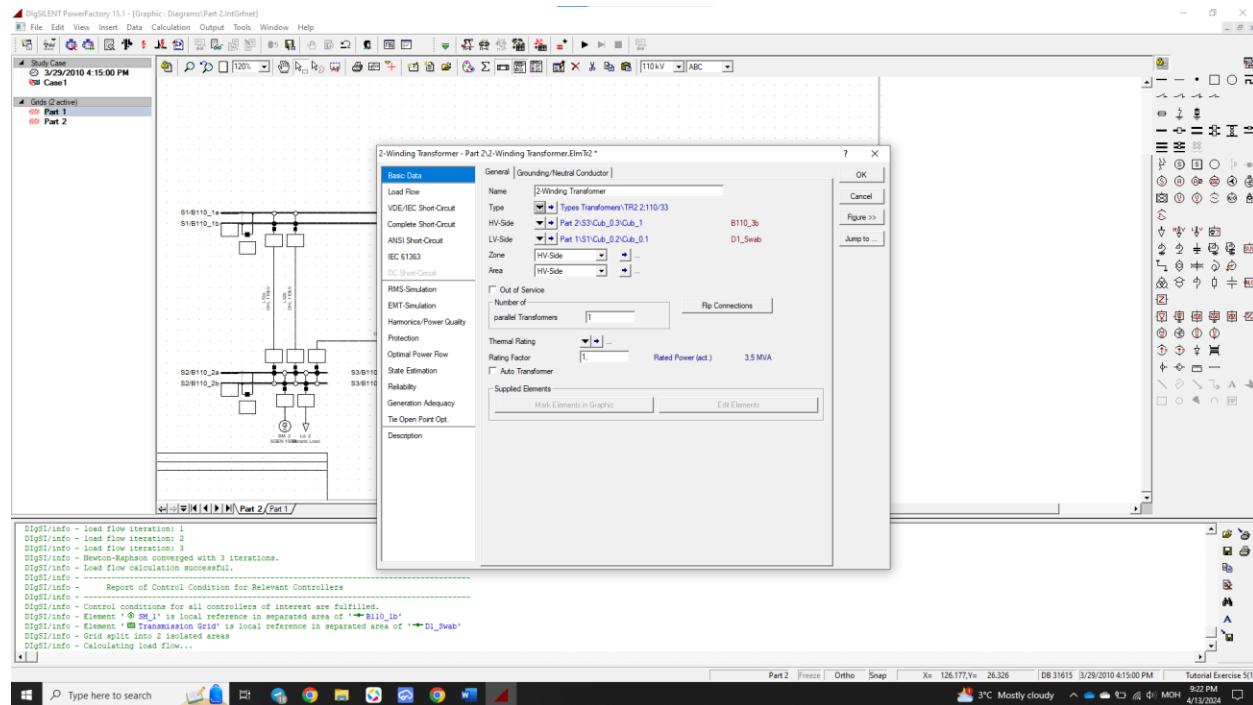
Үүний дараагаар part2 дээрх D1_Swab-g jump to Part1 хийсэн.



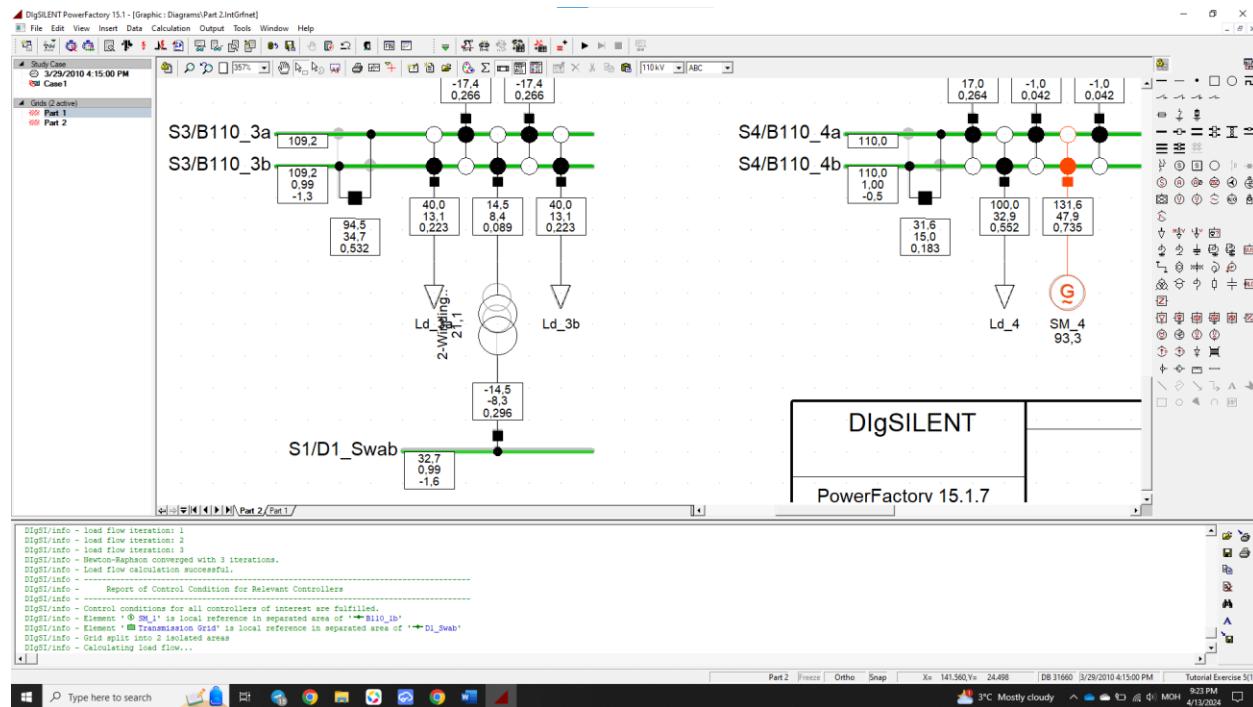
Мөн part1 дээрх D1_Swab-g jump to part2 хийсэн.

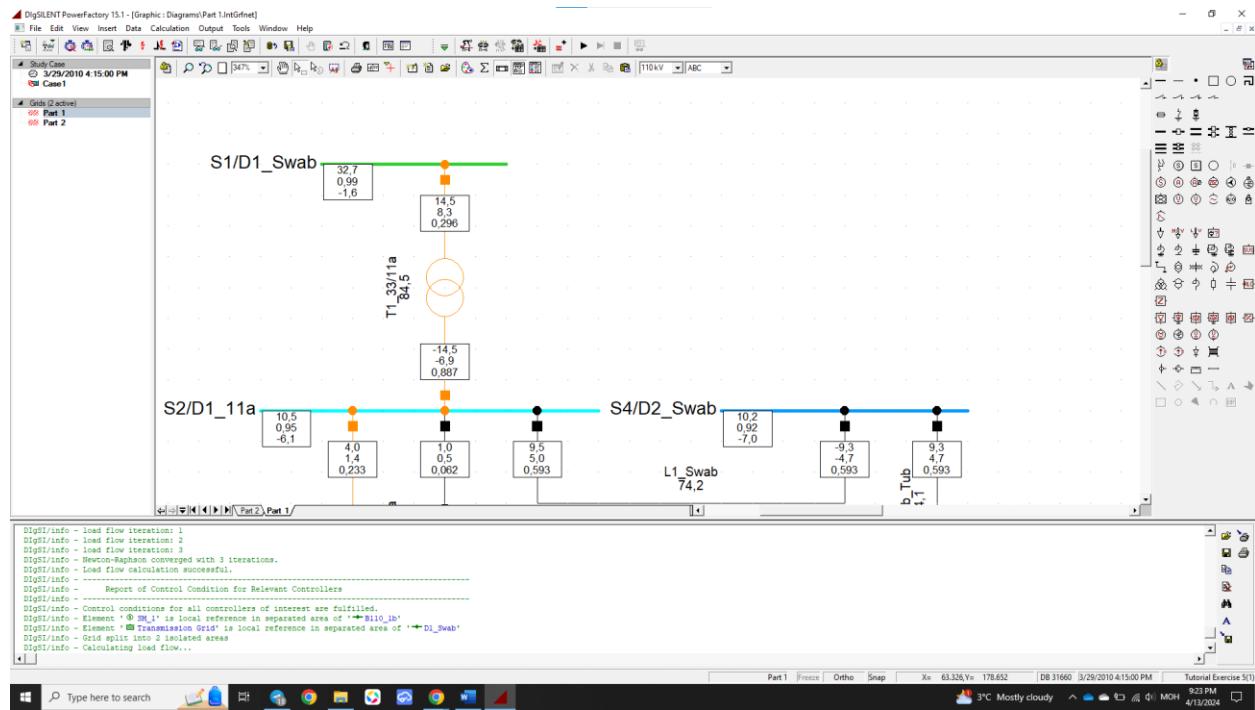


Харин одоо 2ороомт трансформаторын өгөгдлийг оруулсан.



Ийнхүү 2 системийг холбож дууслаа. Харин одоо холбогдсон эсэхийг чадлын урсгалын тооцоо хийж шалгая.

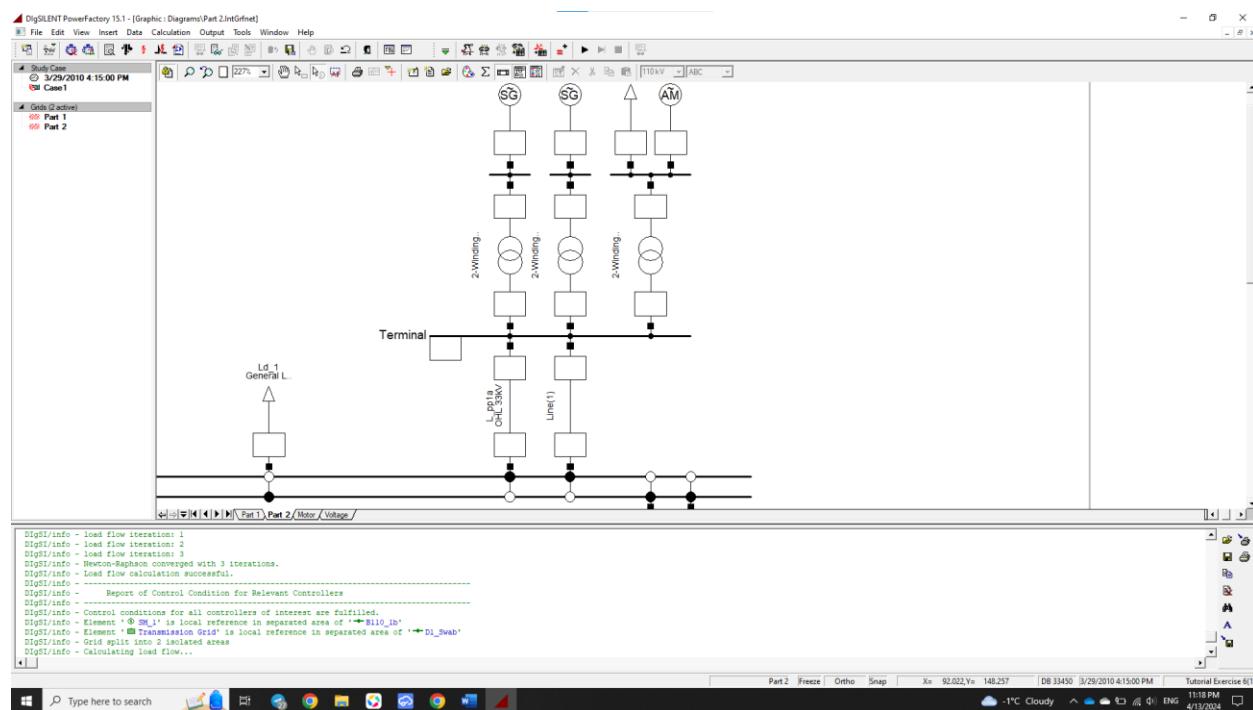
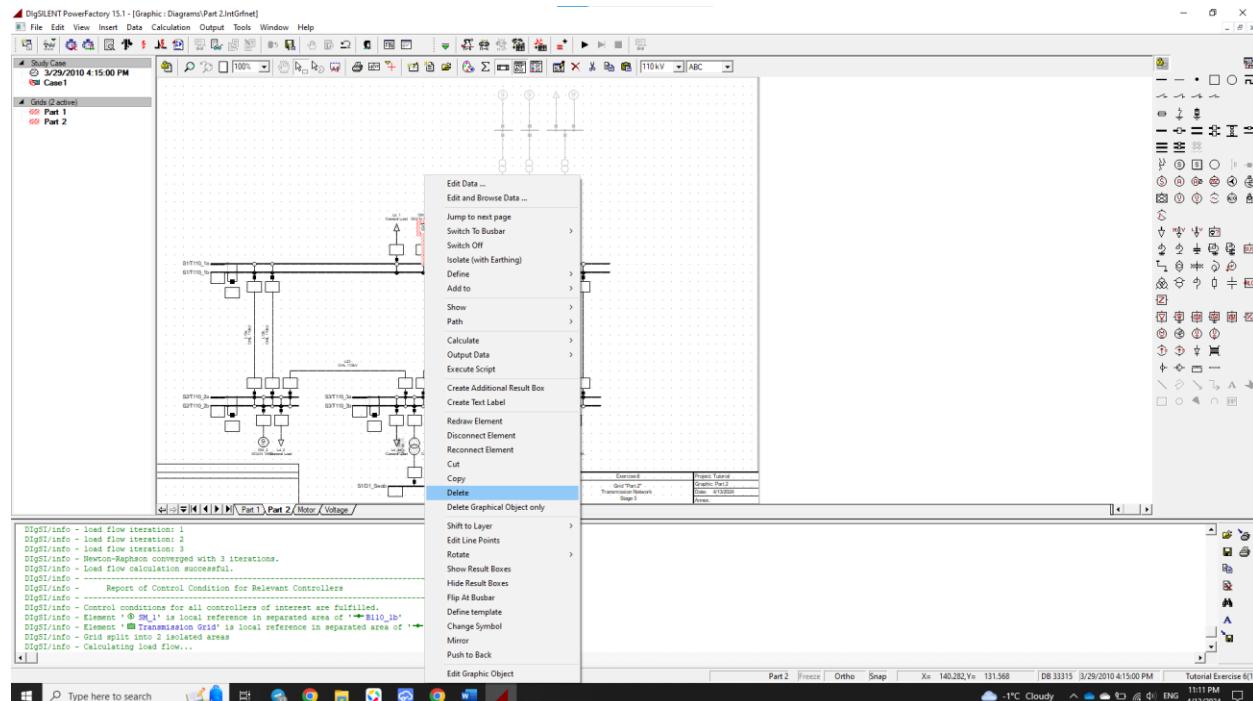




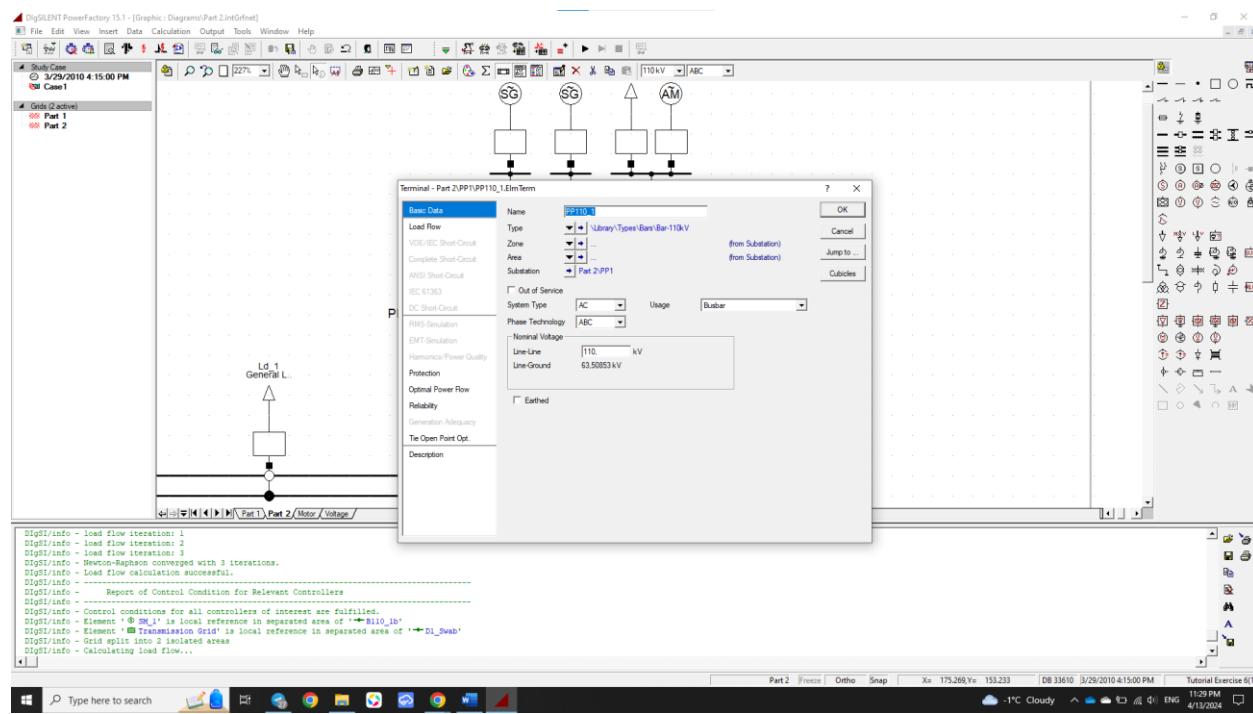
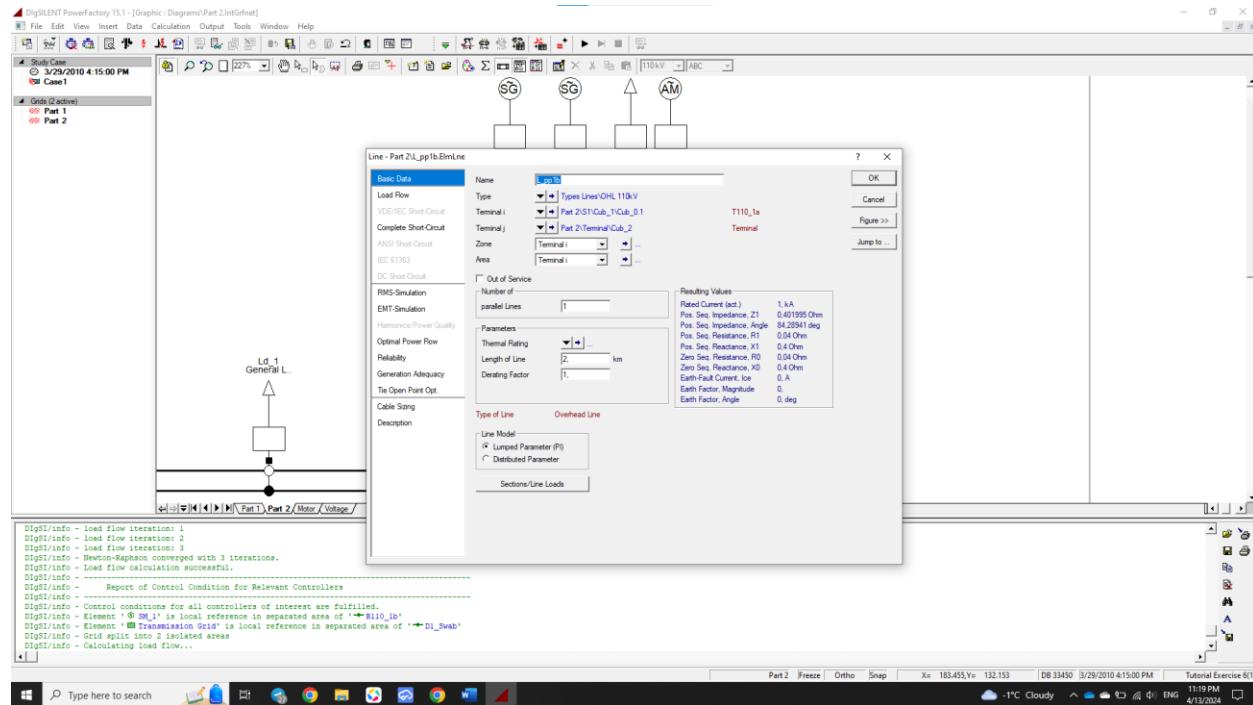
Тооцооноос харахад part1, part2 дээрх D1_Swab шиний параметрийн утгууд ижил байна. Иймд 2 систем холбогдсон нь батлагдлаа.

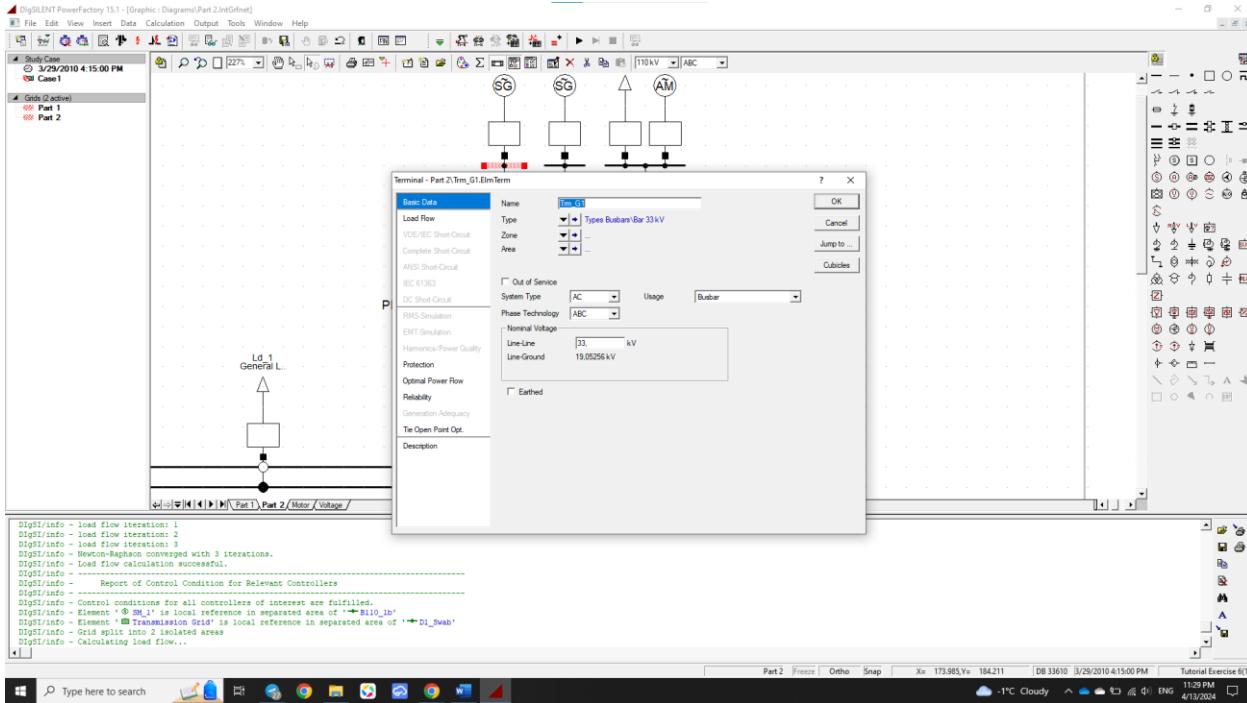
Excercise 6

Үг ажлаар мотор асалтыг судалсан. Үүний тулд powerplant1 гэж үзэж байсан генераторыг устгаж оронд нь 2 генератор , 1 асинхрон машин , 3 трансформатор бүхий станцыг загварчлан оруулсан.

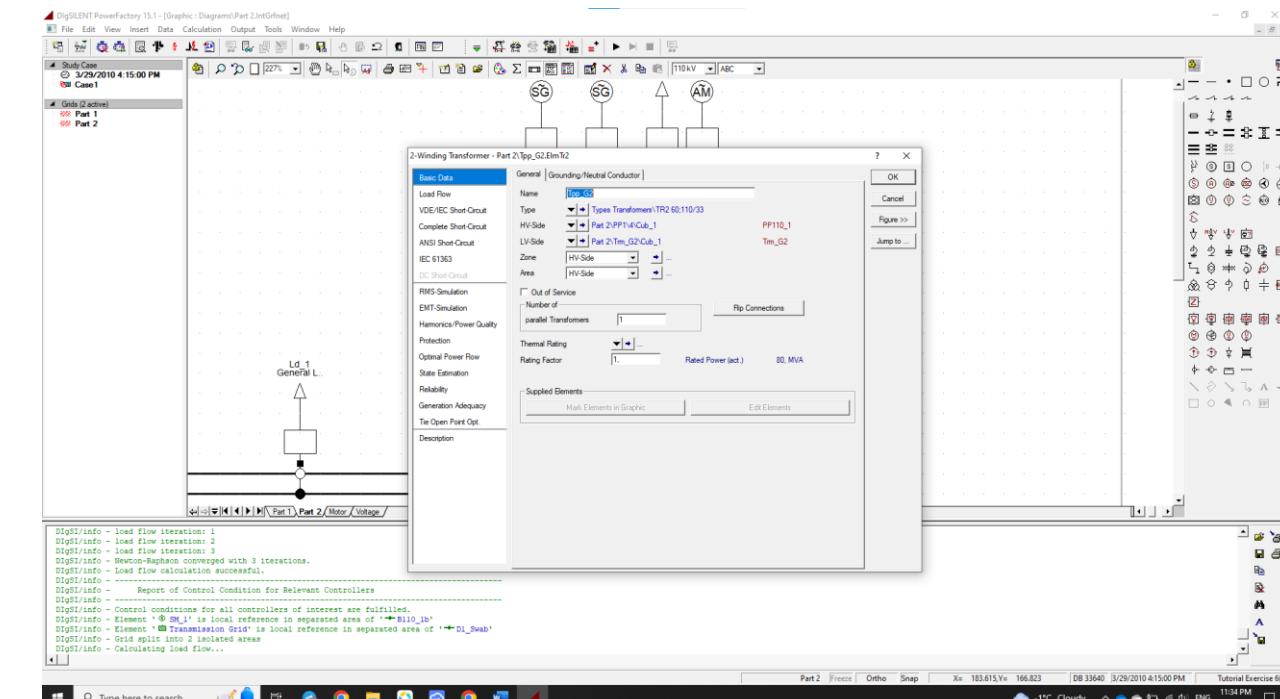


Станцын шин, шугам, трансформатор, генератор, машин, ачаалалд өгөгдлийг дараах байдлаар оруулав.

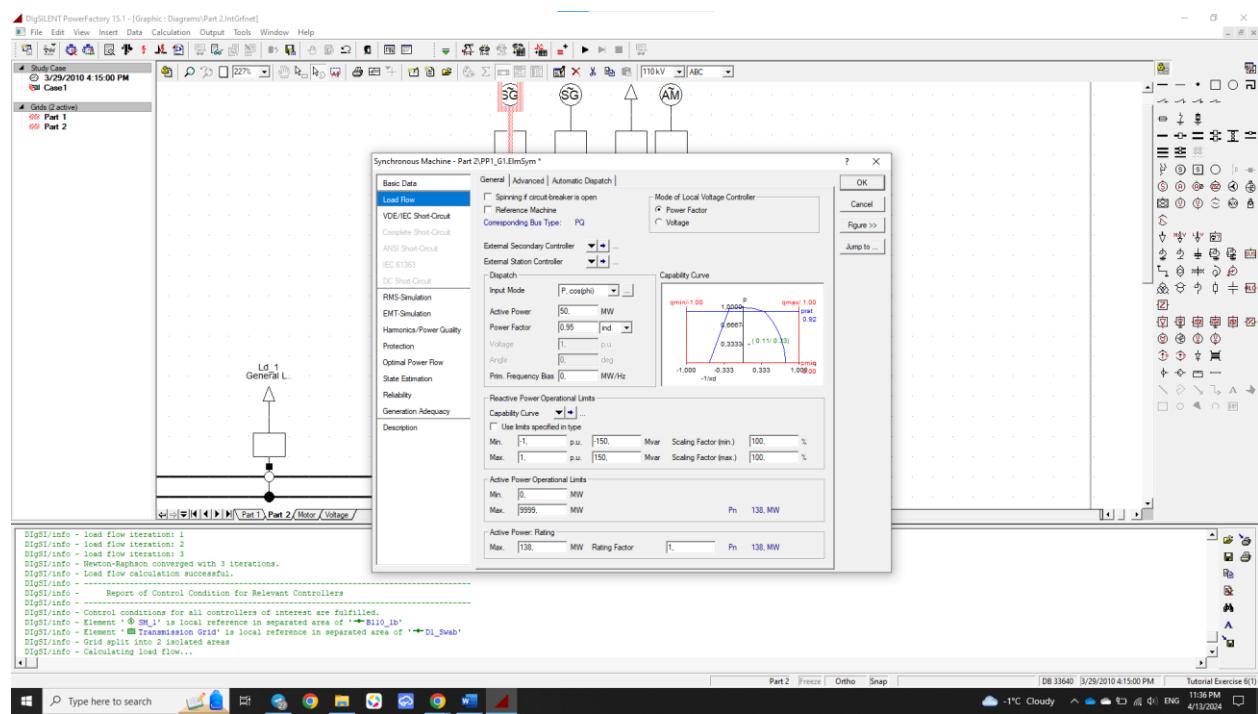
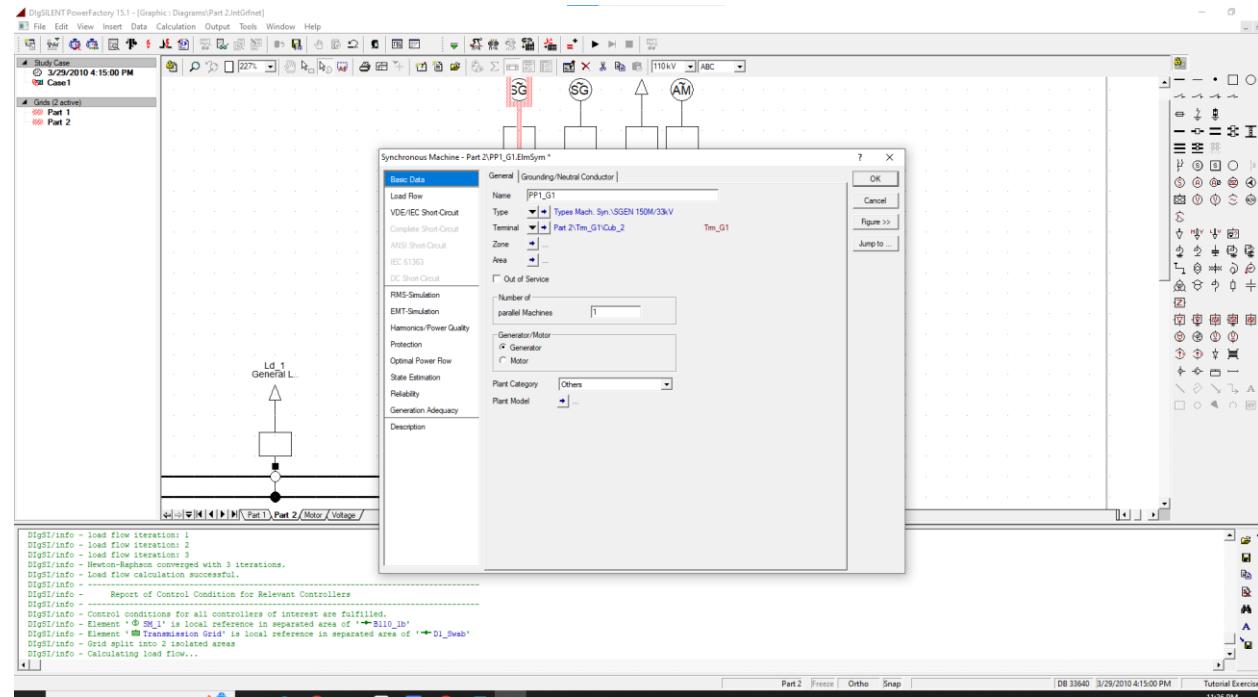


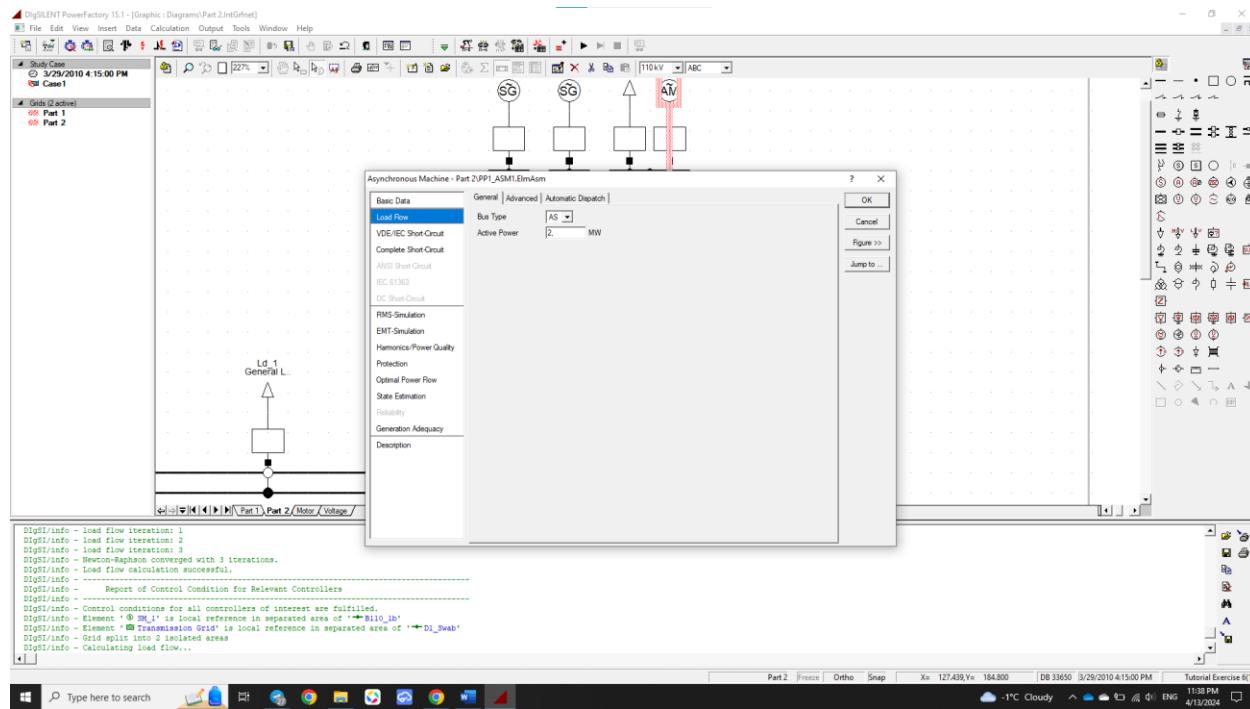
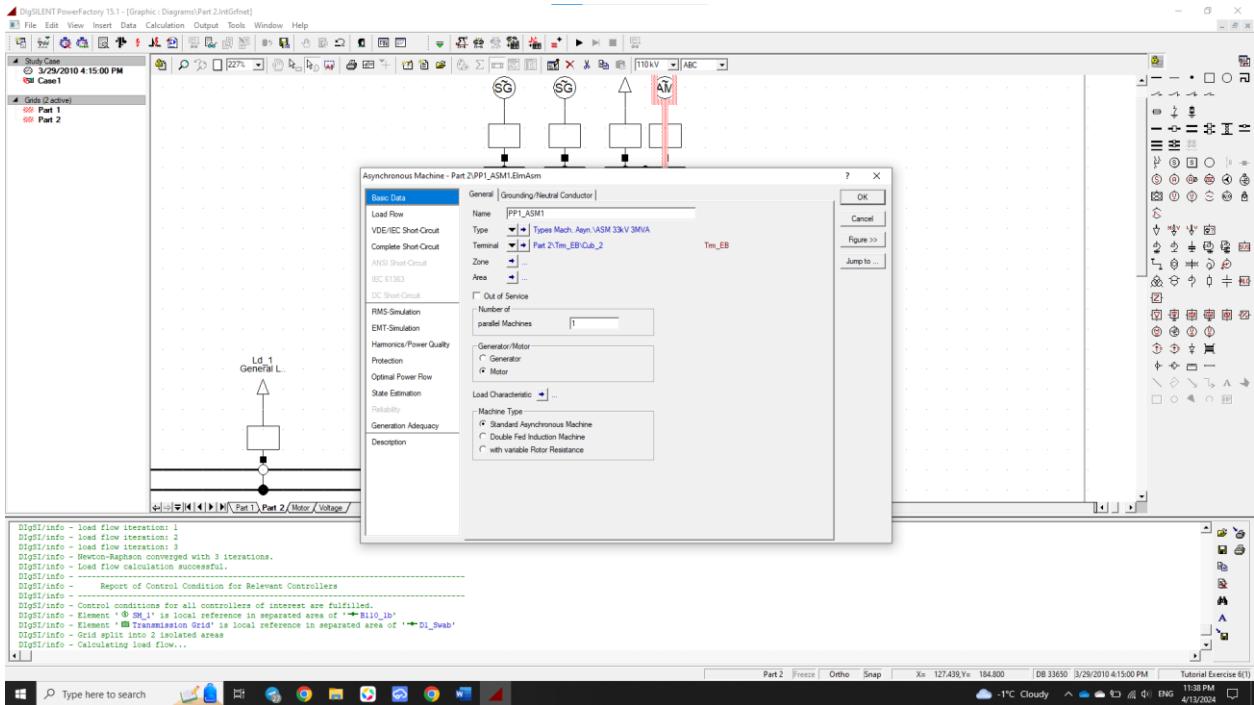


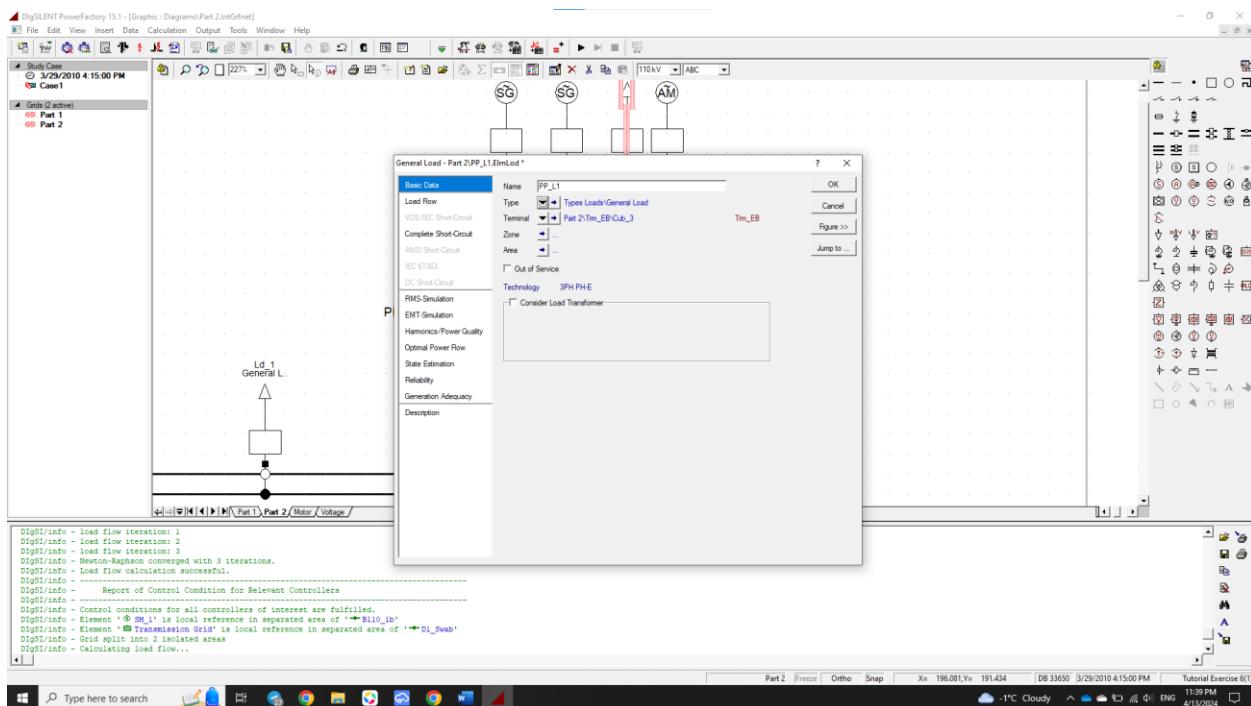
Part 2 Freeze Ortho Snap Xa: 173.985, Ya: 184.211 DB 33610 3/29/2010 4:15:00 PM Tutorial Exercise 6(1)



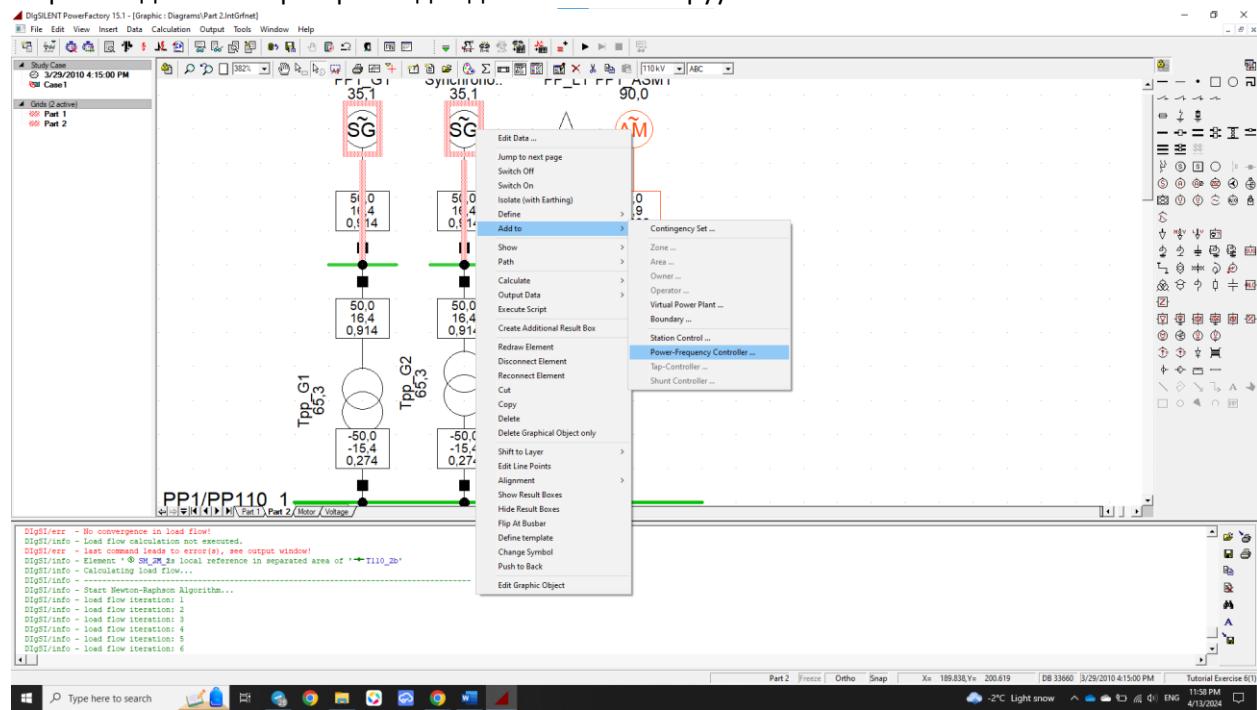
Part 2 Freeze Ortho Snap Xa: 183.815, Ya: 166.823 DB 33640 3/29/2010 4:15:00 PM Tutorial Exercise 6(1)



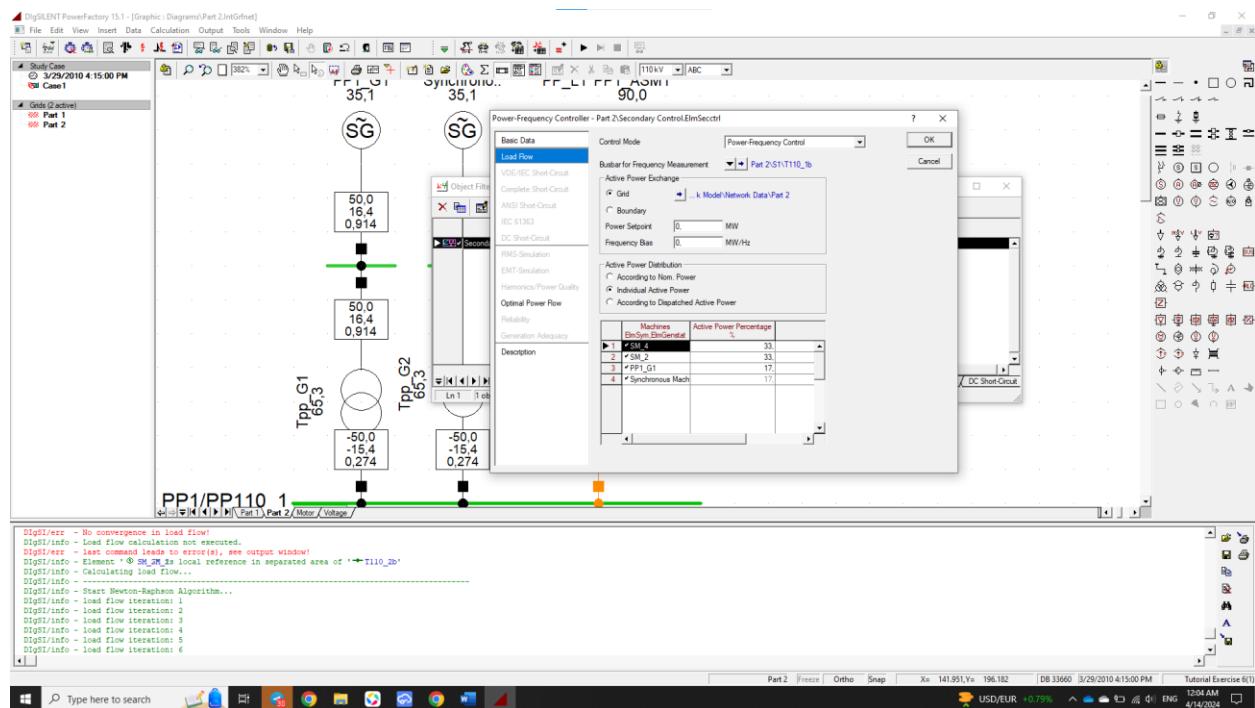


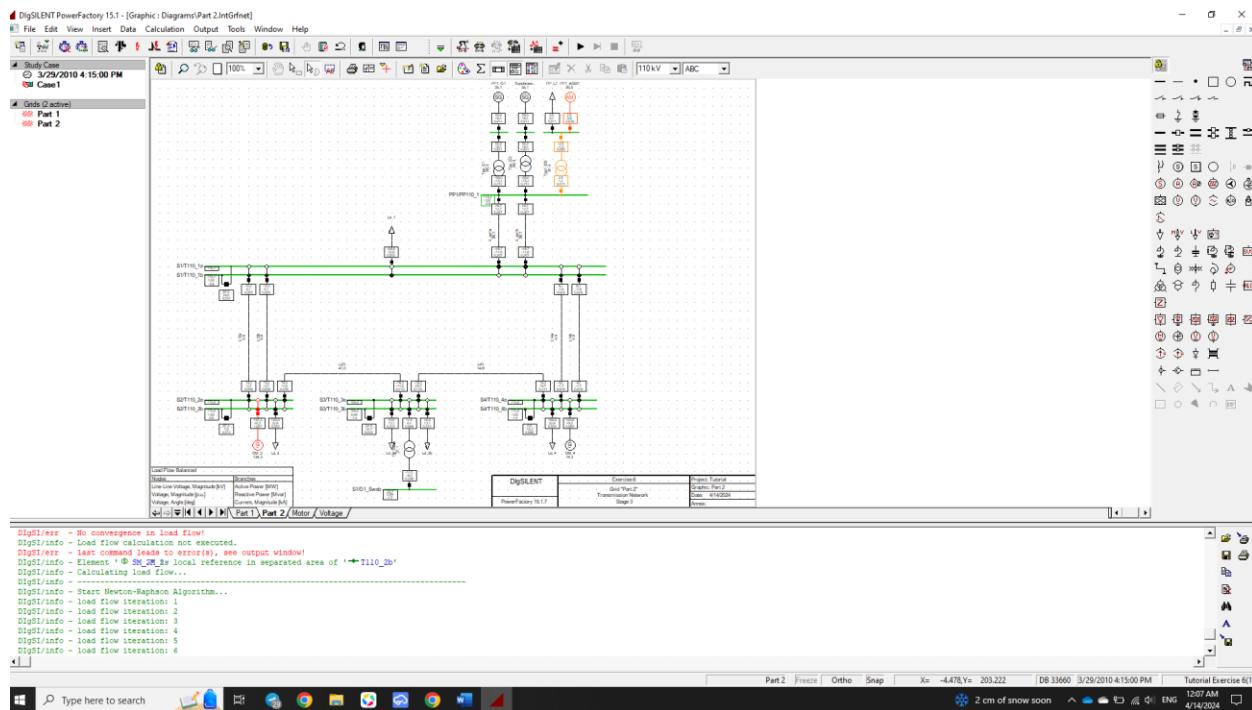


шинээр нэмэгдсэн 2 генераторыг чадал давтамжийн тохируулж өгөв.

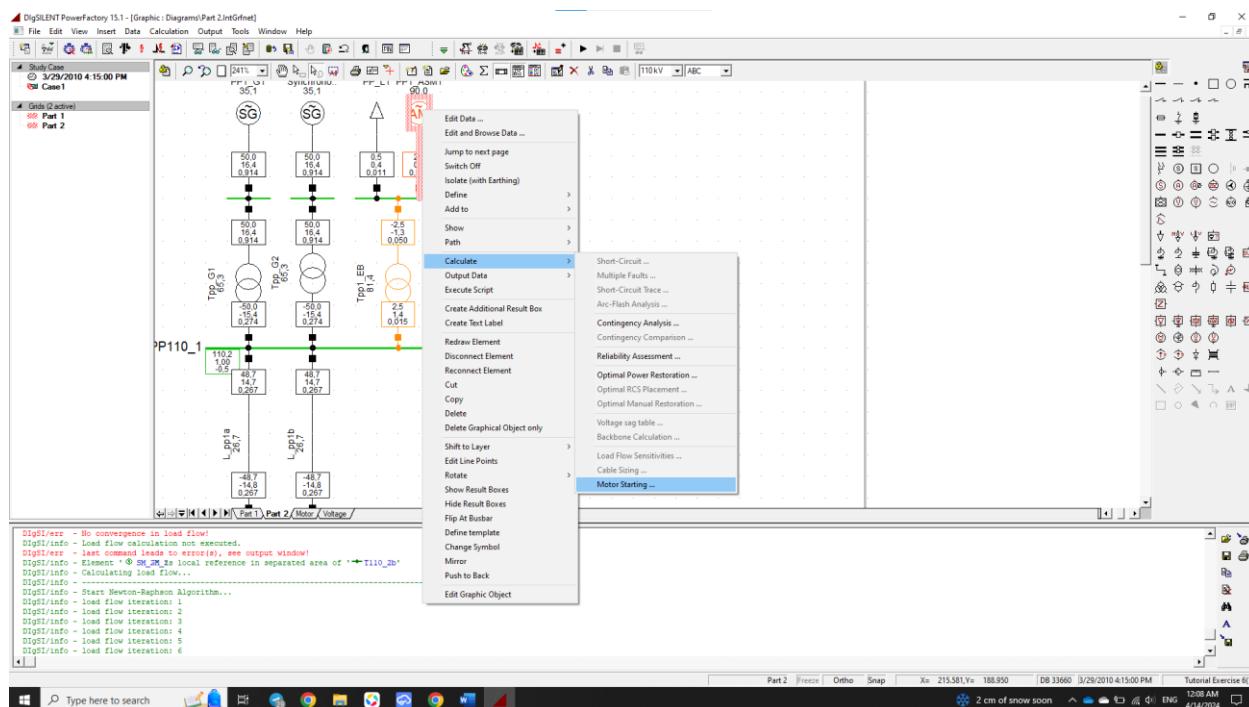


Генераторуудын 33,33,17,17%-ын хуваарилалтай үеийн чадлын урсгалын тооцоо хийв.

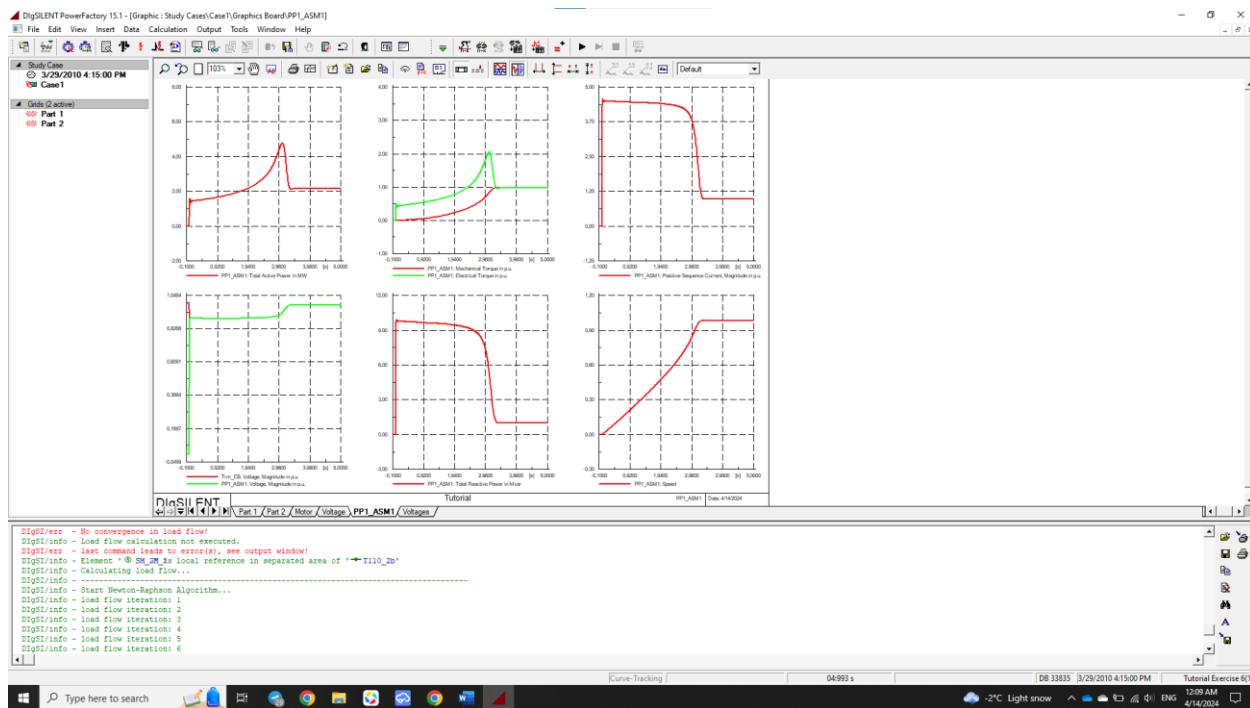




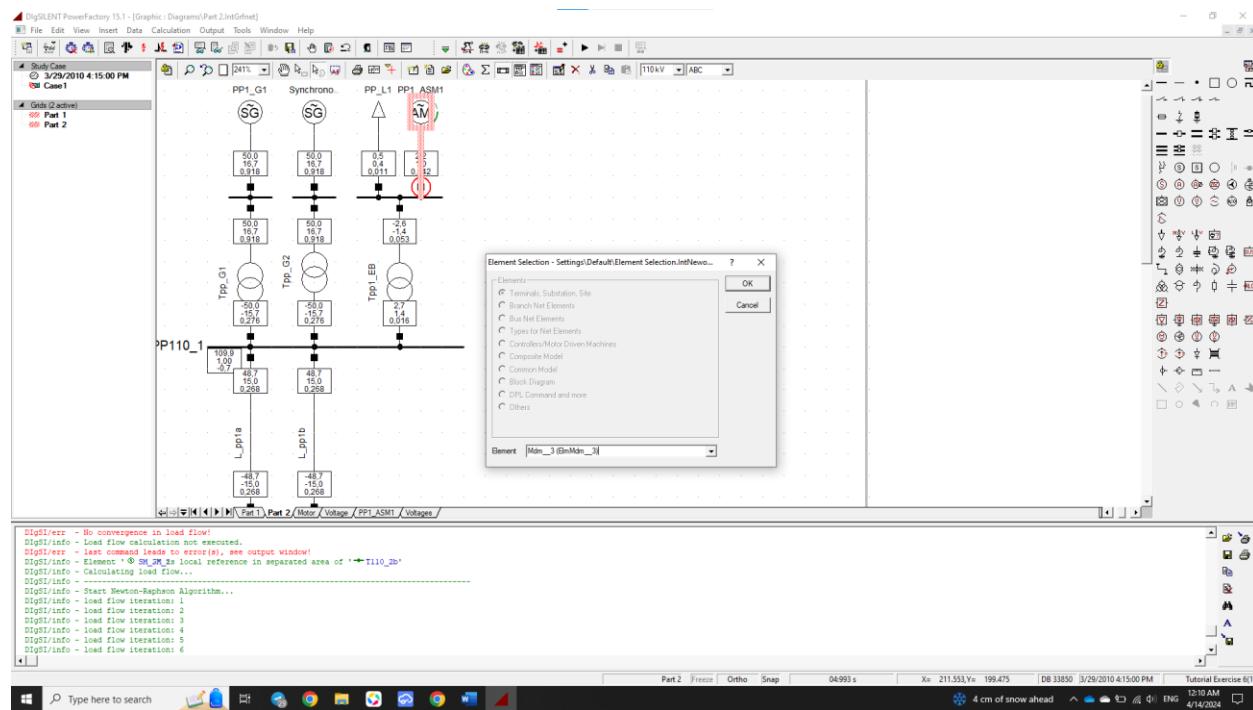
Асинхрон машины асаалтын тооцоог дараах байдлаар хийв.



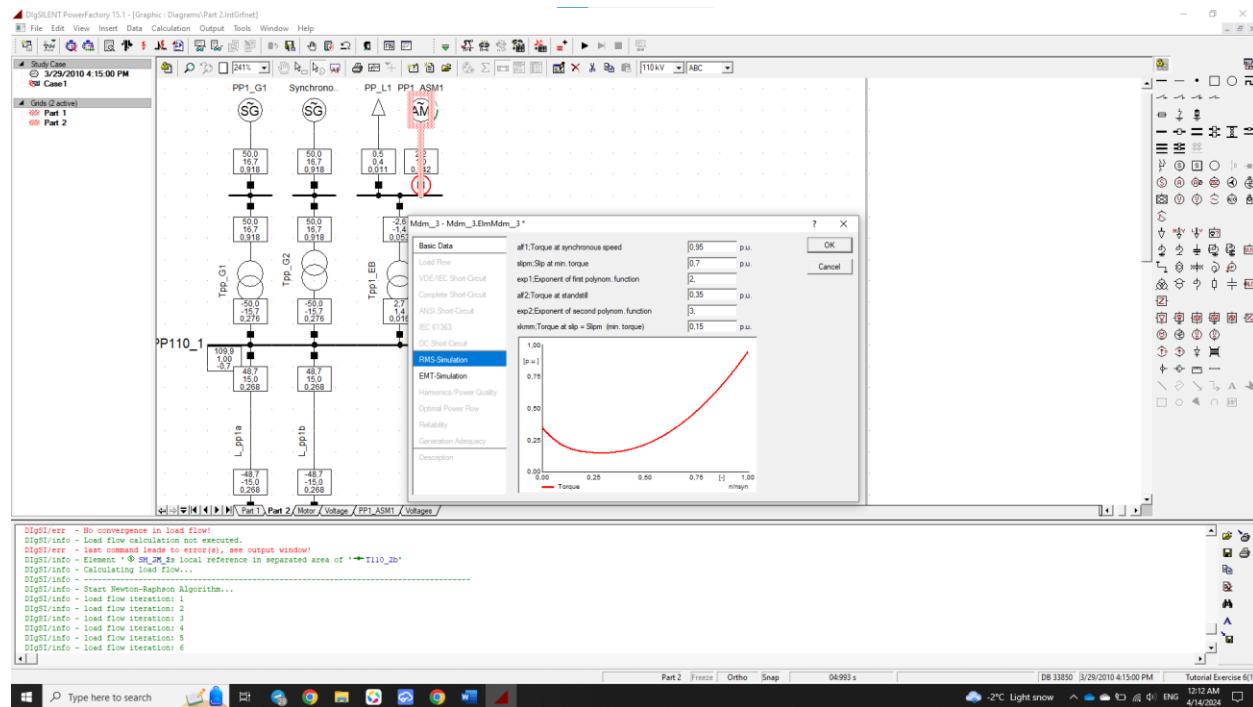
Үр дүнг харвал мотор 3,3-н секундэд асаалт хийж бүрэн дуусаж байна.



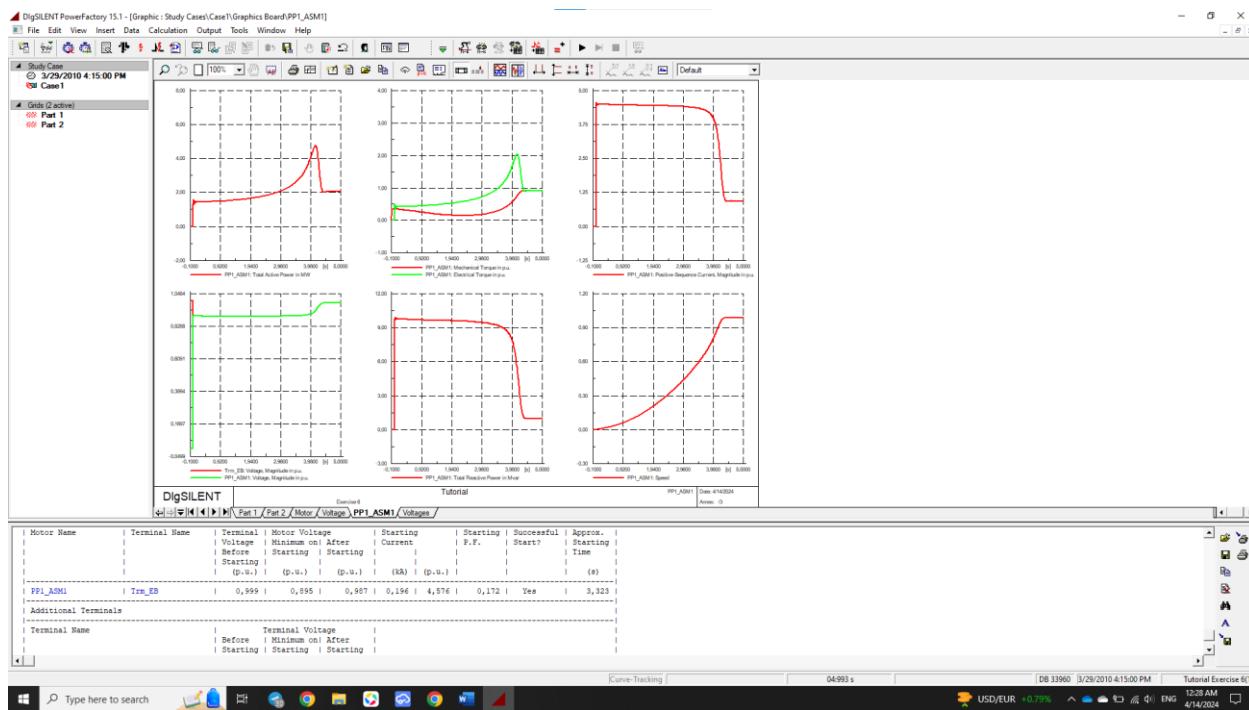
Моторын асаалтын төхөөрөмжийг солин туршиж үзсэн./Mdm_3/



Rms simulation хэсэгт асаалтын үеийн муруйг зааж өгсөн.



Үр дүн:



Эхний асаалт :

				DIGSILENT	Project:
				PowerFactory	-
				15.1.7	Date:
<hr/>					
Motor Starting					
Study Case:	Casel			Annex:	/ 1
Simulation Type:	Dynamic Simulation				
<hr/>					
Motors					
Motor Name	Terminal Name	Terminal Voltage	Starting	Starting	Successful Approx.
	Voltage	Minimum on After	Current	P.F.	Start? Starting
	Before	Starting	Starting		Time
	Starting				
	(p.u.)	(p.u.)	(p.u.)	(kA)	(p.u.) (s)
PPL_ASM1	Trm_EB	0,999 0,895 0,987 0,196 4,576 0,172 Yes 3,323			
<hr/>					
Additional Terminals					
Terminal Name		Terminal Voltage			
	Before	Minimum on After			
	Starting	Starting	Starting		
		Starting	Starting		
T110_1a		1,001 0,990 0,998			

Дараагийн асаалт:

				DIGSILENT	Project:
				PowerFactory	-
				15.1.7	Date:
<hr/>					
Motor Starting					
Study Case:	Casel			Annex:	/ 1
Simulation Type:	Dynamic Simulation				
<hr/>					
Motors					
Motor Name	Terminal Name	Terminal Voltage	Starting	Starting	Successful Approx.
	Voltage	Minimum on After	Current	P.F.	Start? Starting
	Before	Starting	Starting		Time
	Starting				
	(p.u.)	(p.u.)	(p.u.)	(kA)	(p.u.) (s)
PPL_ASM1	Trm_EB	0,999 0,894 0,987 0,196 4,576 0,157 Yes 4,383			
<hr/>					
Additional Terminals					
Terminal Name		Terminal Voltage			
	Before	Minimum on After			
	Starting	Starting	Starting		
		Starting	Starting		
T110_1a		1,001 0,989 0,998			

□ Эндээс үзвэл эхний асаалт хоёрдох асаалтаас даруй 1с-ээр хурдан асааж байна.