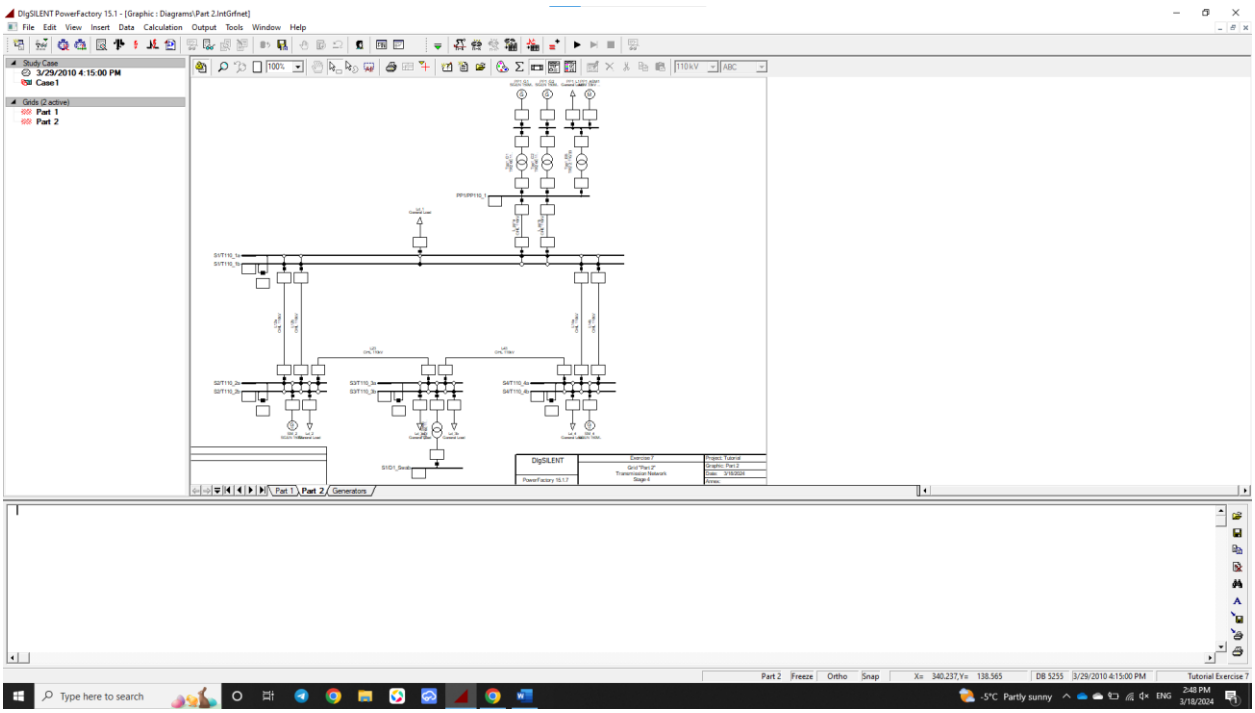
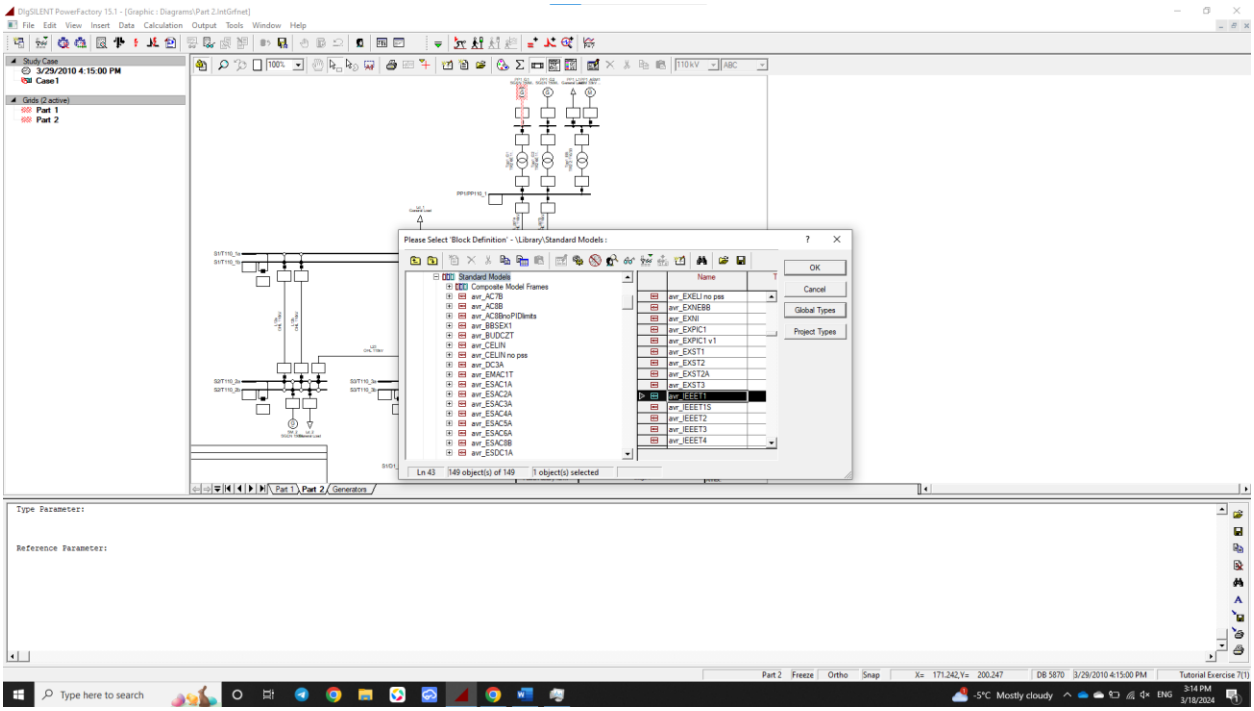
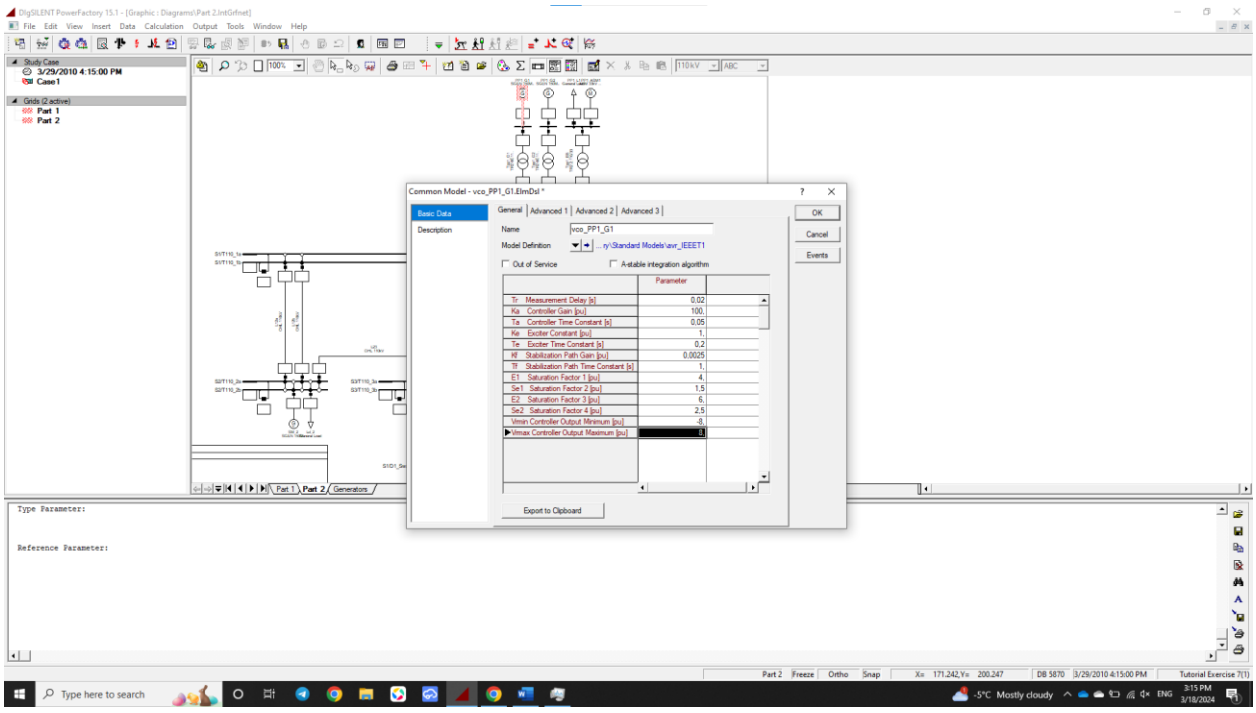
Exersice 7

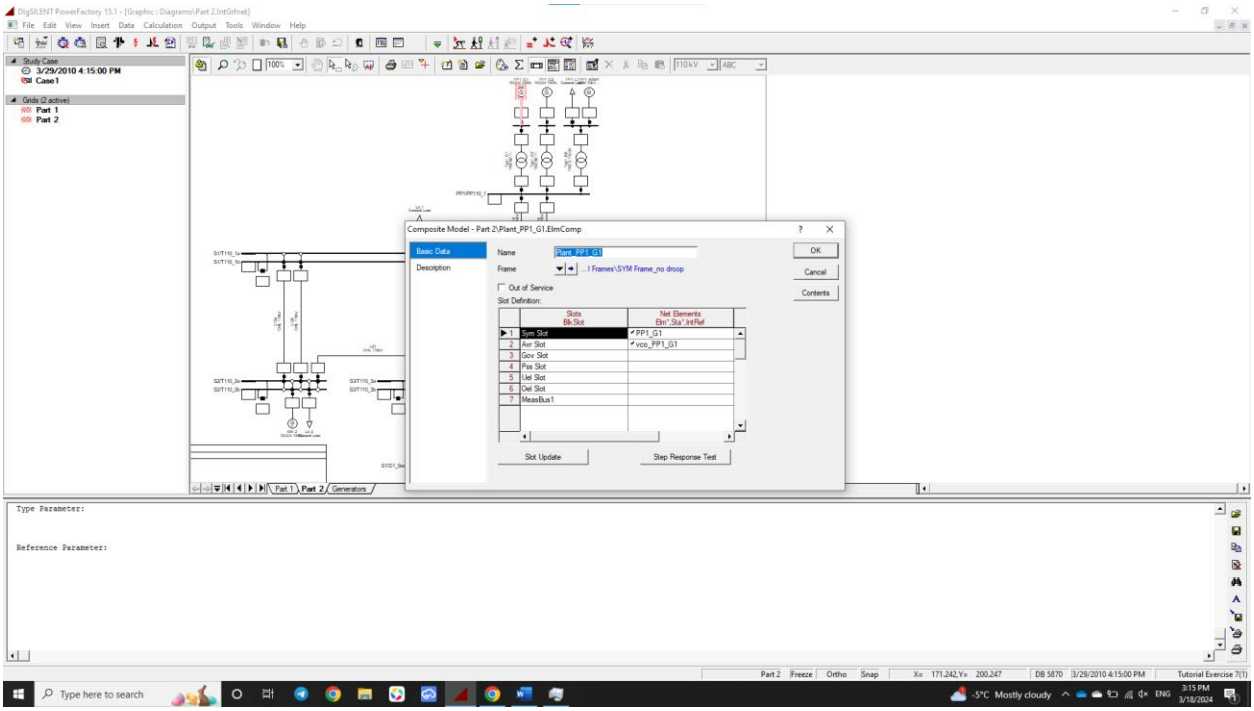
Энэ ажлаар турбин болон автомат хүчдлийн тохируулгыг хийж plot байгуулж үзлээ.



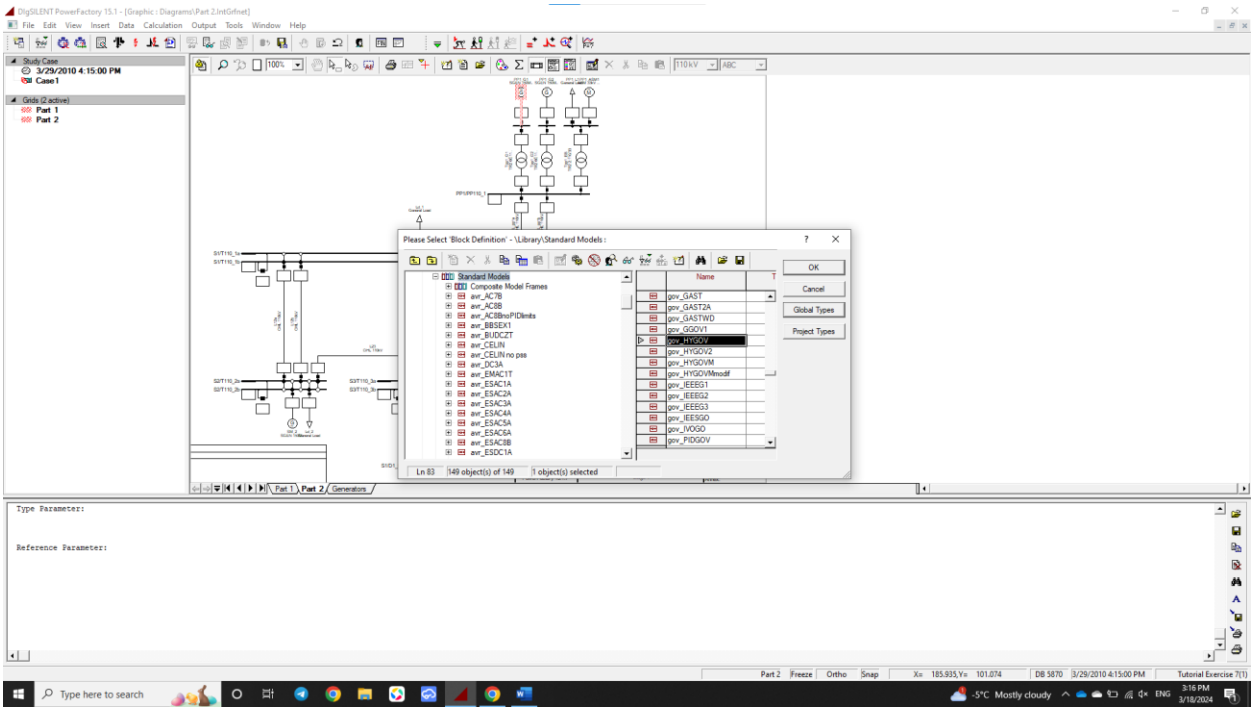
G1-н автомат хүчдлийн тавилыг дараах байдлаар оруулсан.

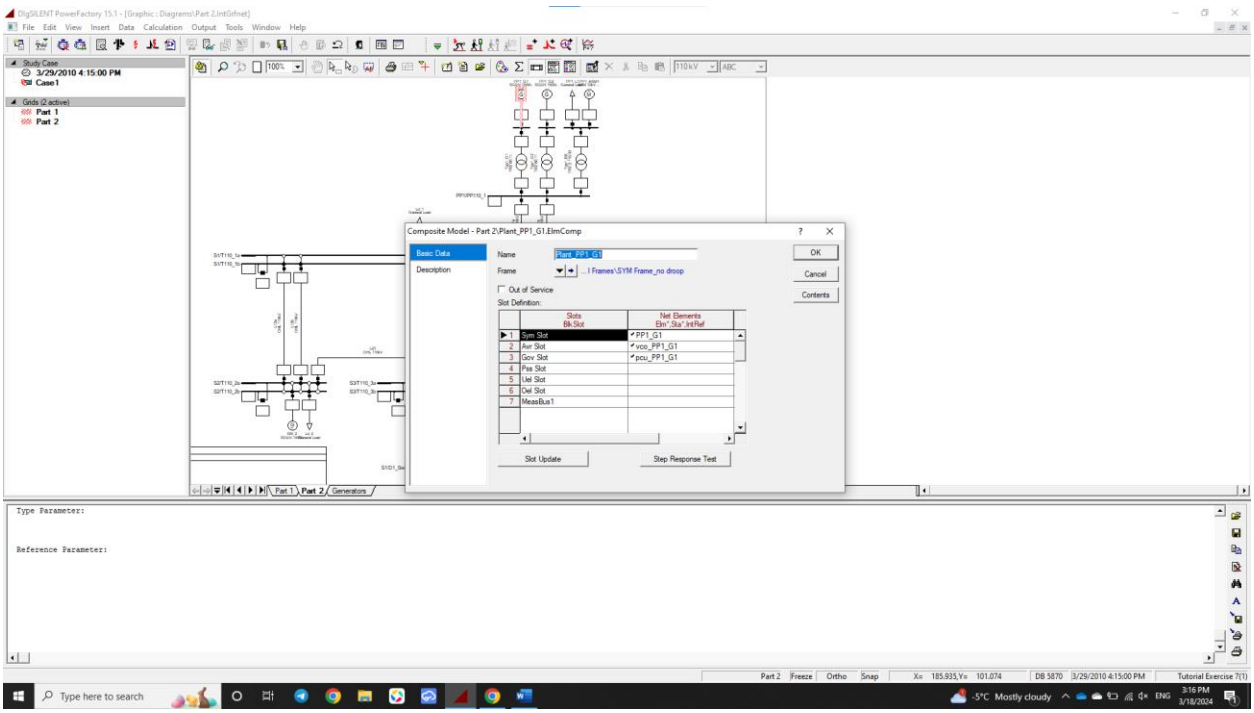



Common Model - vco_PP1_G1.ElmDsl *
Basic Data
Description
General | Advanced 1 | Advanced 2 | Advanced 3
Name
vco_PP1_G1
Model Definition
Out of Service
A-stable integration algorithm
OK
Cancel
Events
Parameter
Tr Measurement Delay [s] 0.02
Ka Controller Gain [pu] 100.
Ta Controller Time Constant [s] 0.05
Ke Exciter Constant [pu] 1.
Te Exciter Time Constant [s] 0.2
Kf Stabilization Path Gain [pu] 0.0025
Tf Stabilization Path Time Constant [s] 1.
E1 Saturation Factor 1 [pu] 4.
Se1 Saturation Factor 2 [pu] 1.5
E2 Saturation Factor 3 [pu] 6.
Se2 Saturation Factor 4 [pu] 2.5
Vmin Controller Output Minimum [pu] -8.
Vmax Controller Output Maximum [pu] 8.
Export to Clipboard
Type Parameter:
Reference Parameter:

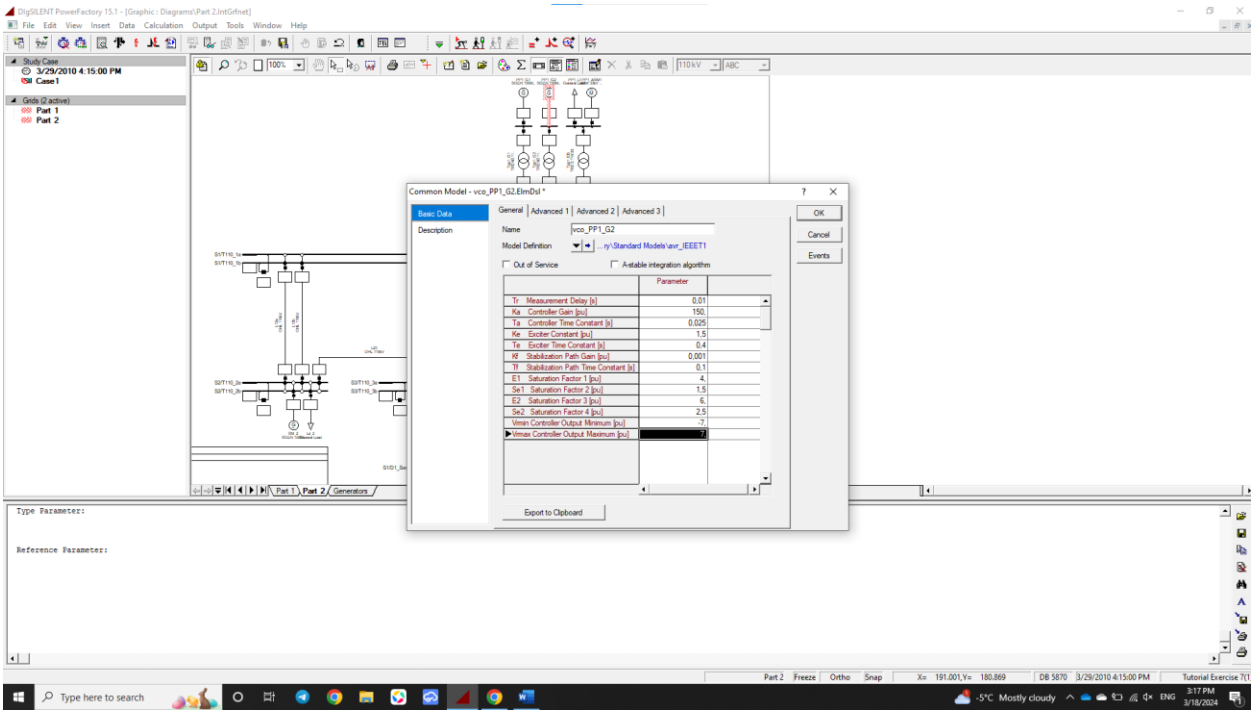

Composite Model - Part 2\Plant_PP1_G1.ElmComp
Basic Data
Description
Name
Plant_PP1_G1
Frame
Out of Service
Slot Definition:
OK
Cancel
Contents
Slots
Blk.Slot
Net Elements
Elm*.Sta*.IntRef
1 Sym Slot PP1_G1
2 Avr Slot vco_PP1_G1
3 Gov Slot
4 Pss Slot
5 Uel Slot
6 Oel Slot
7 MeasBus1
Slot Update
Step Response Test
Type Parameter:
Reference Parameter:

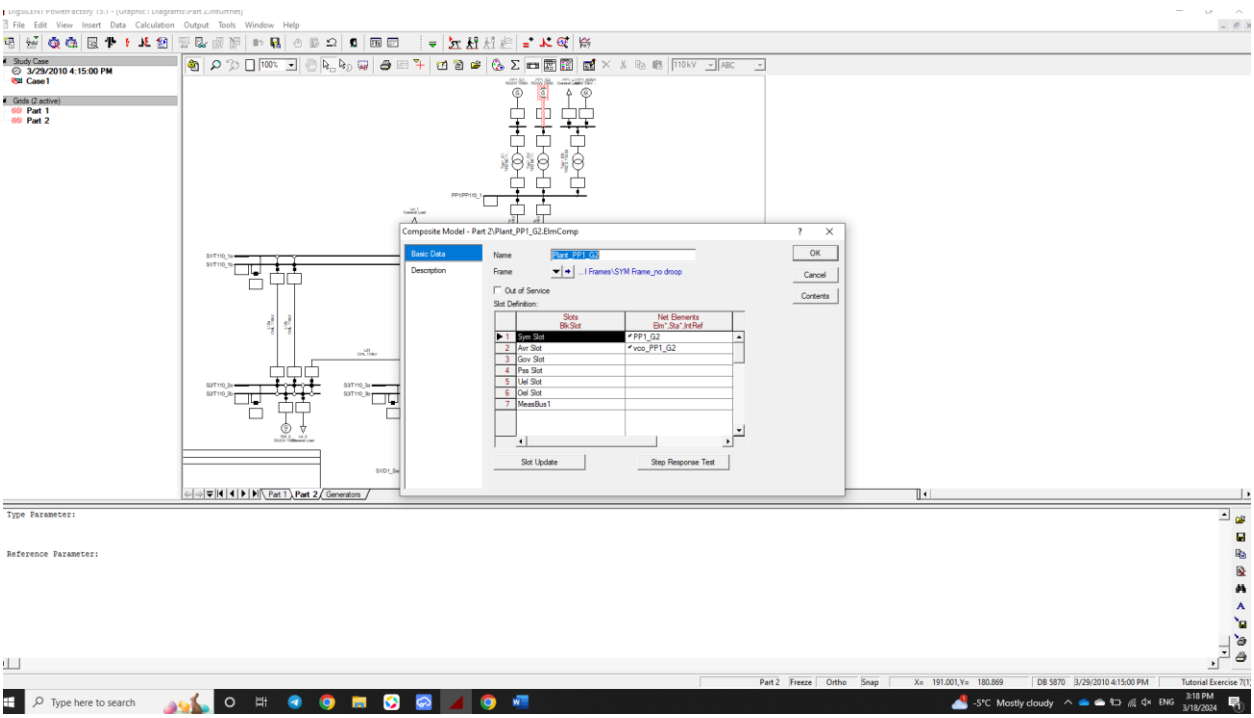
G1-н турбины тохиргоог дараах байдлаар оруулав.



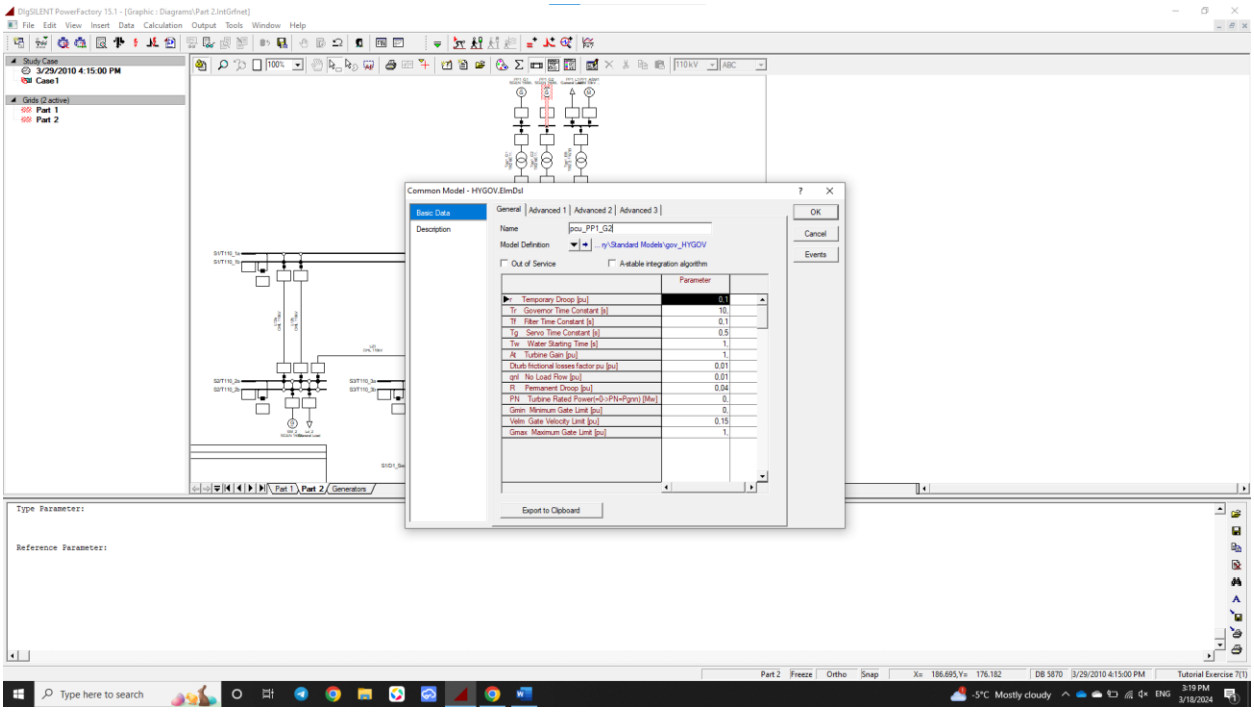


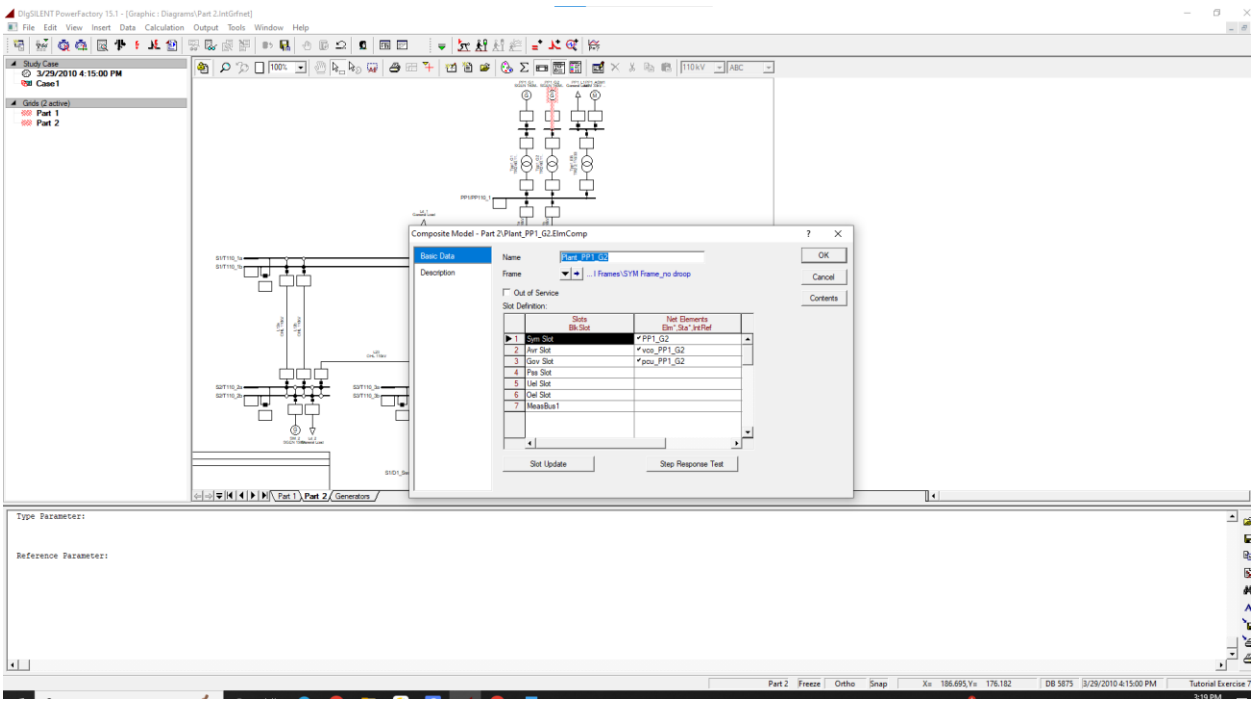
G2-н автомат хүчдлийн тохируулга хийсэн байдал:



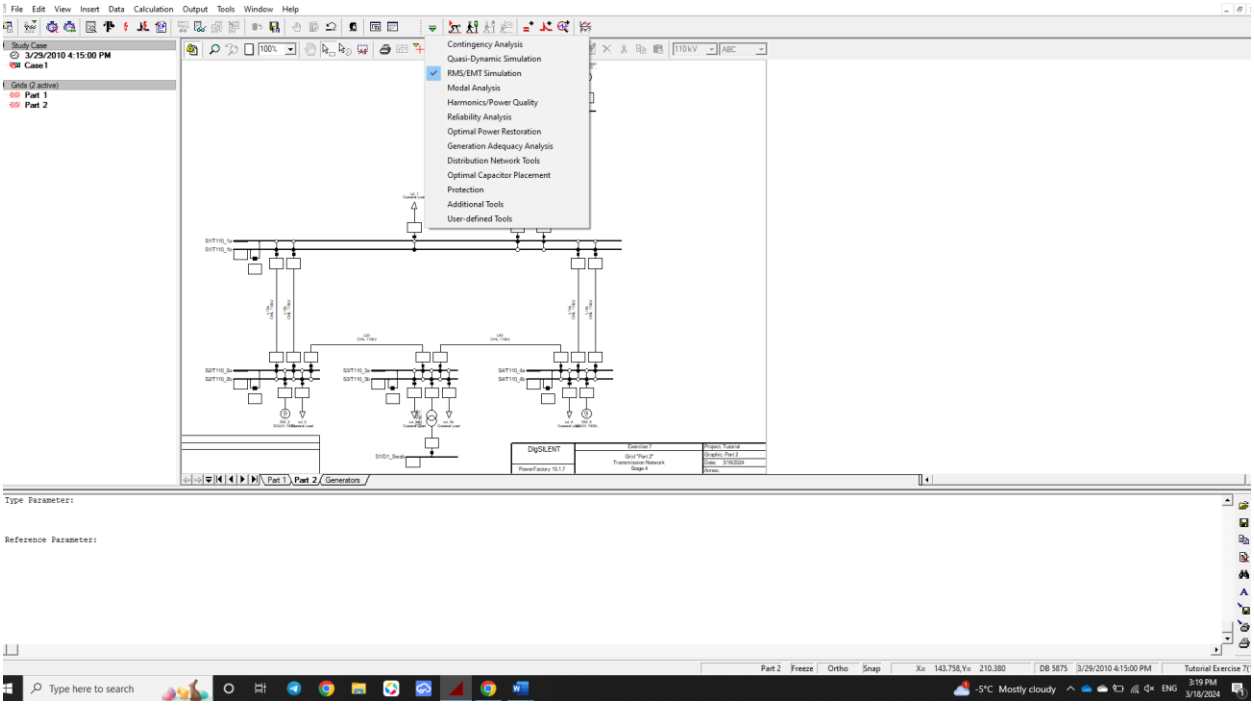


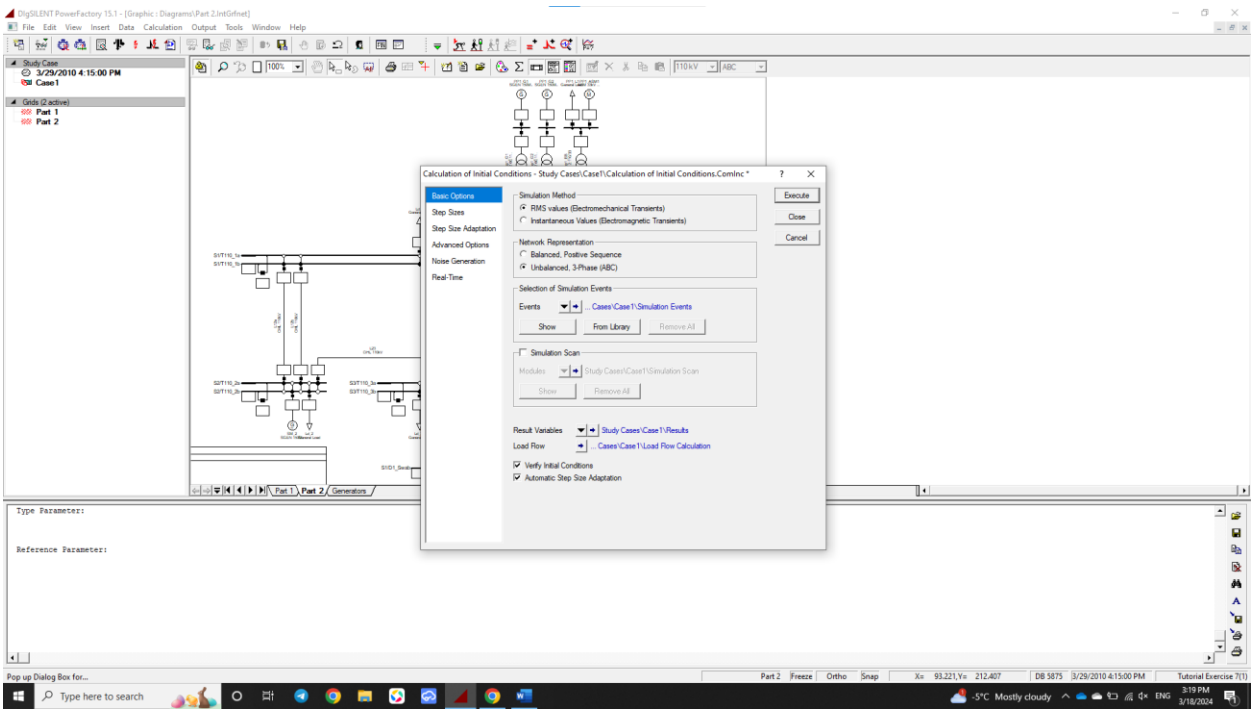
G2-н турбины тохиргоо хийсэн байдал:



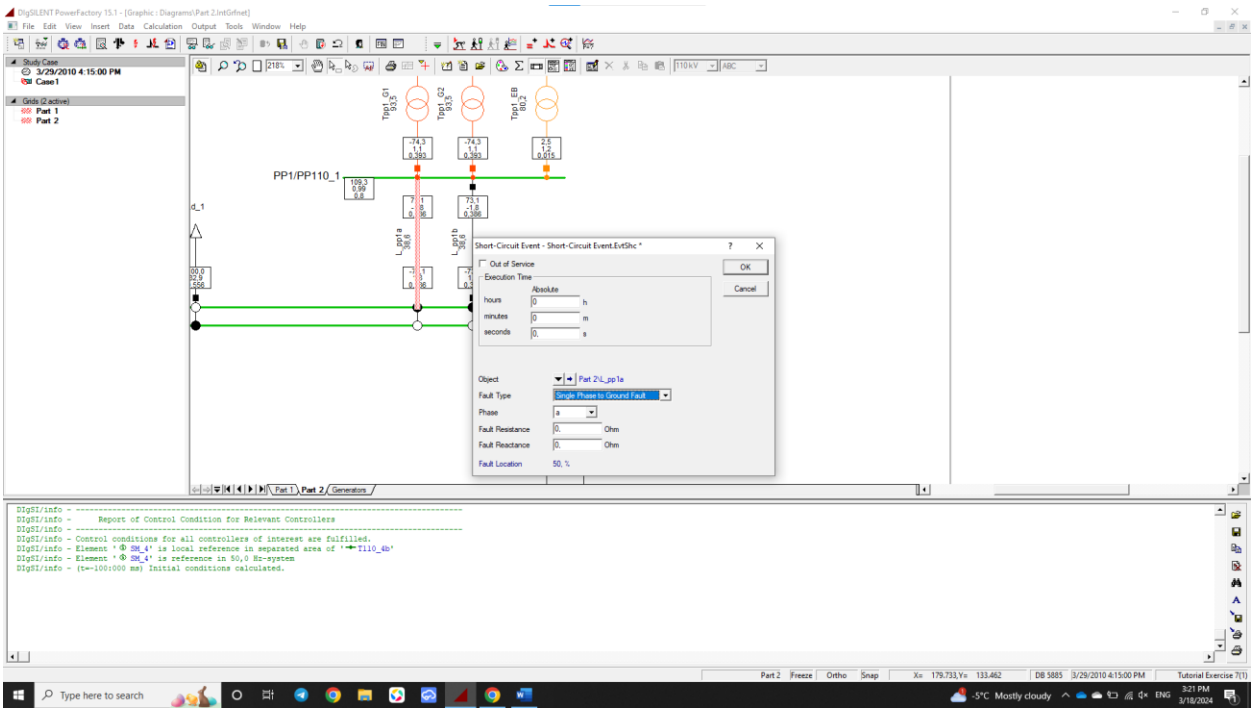


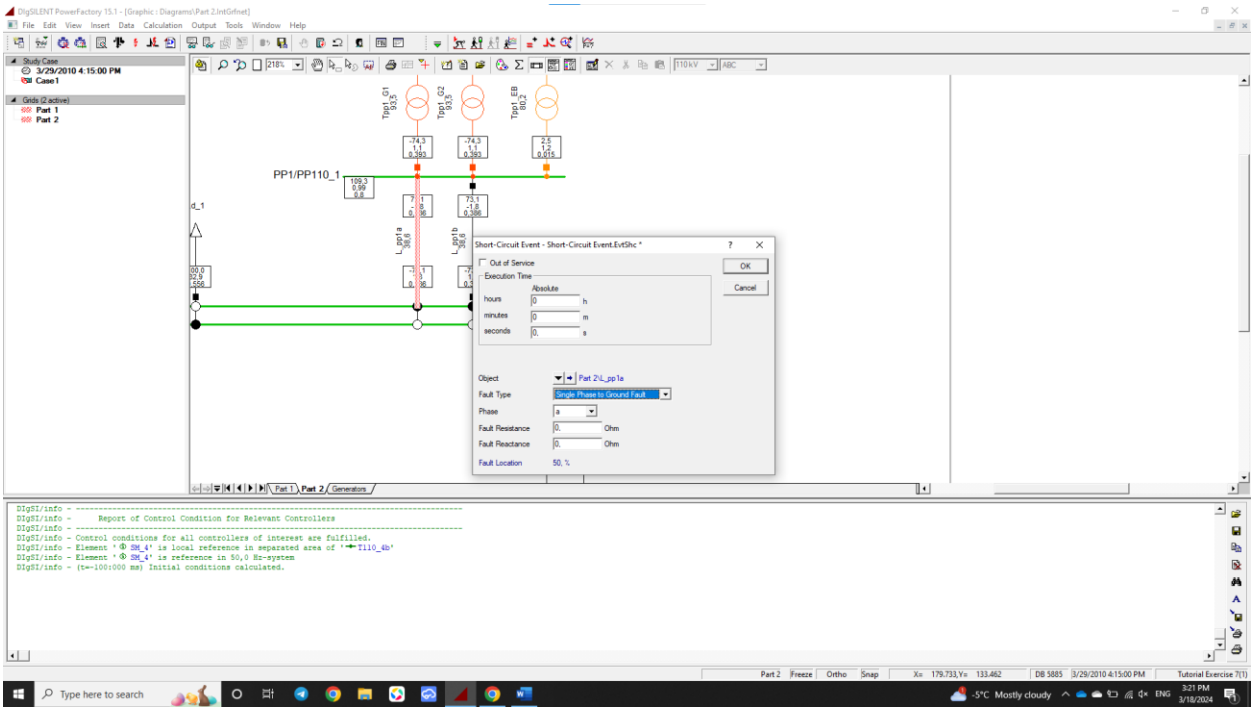
RMS simulation хийв.

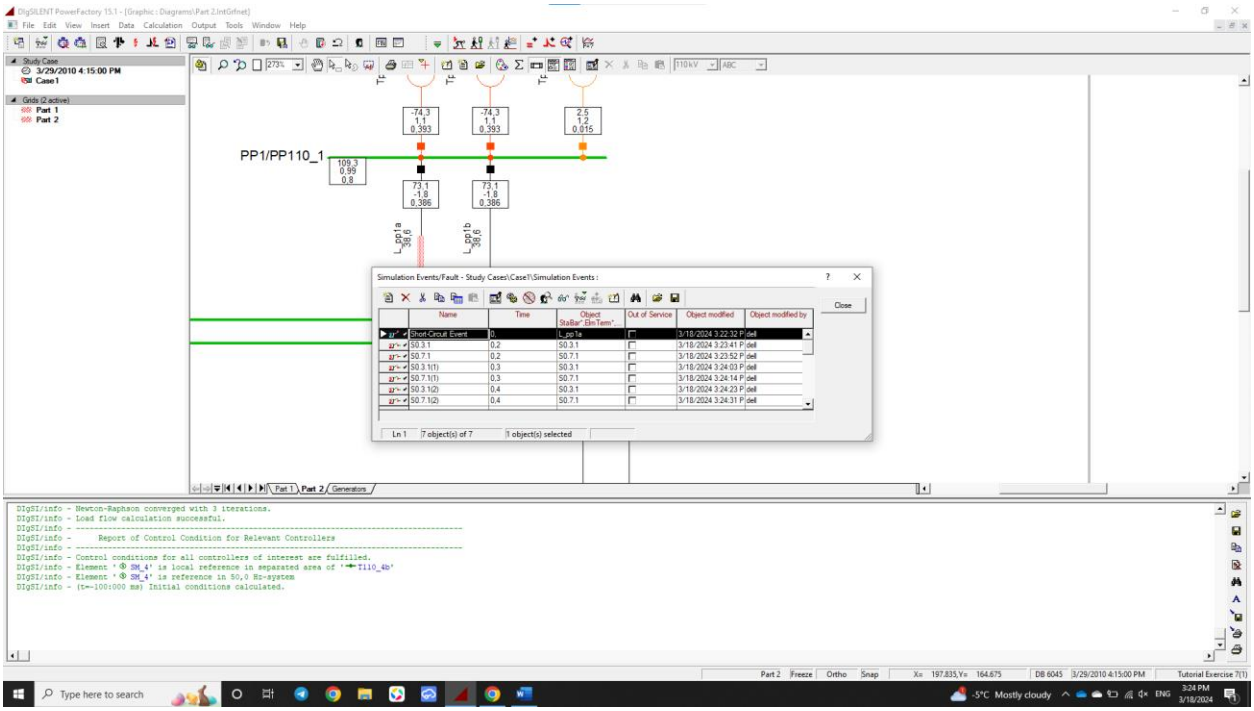




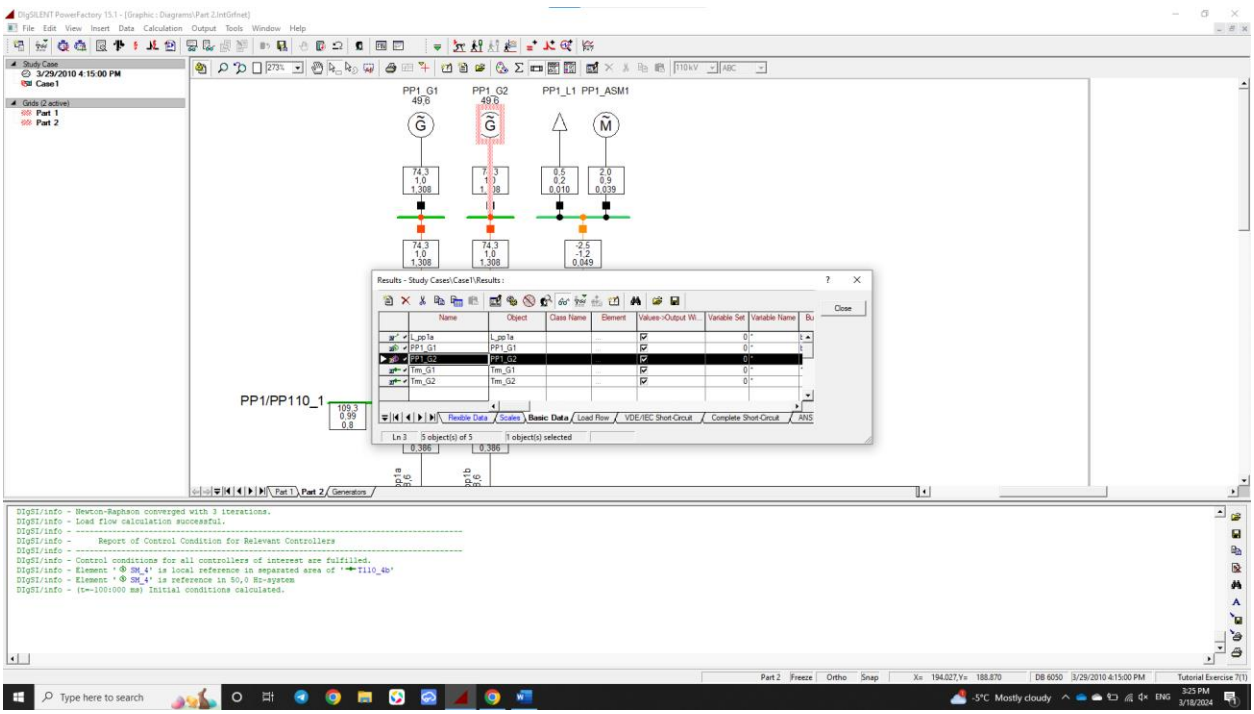
Short circuit event үүсгэж шугамын 50%- д богино залгаа хийж шугамын таслуурыудыг хугацааны өөр өөр агшинд залгаж салгав.

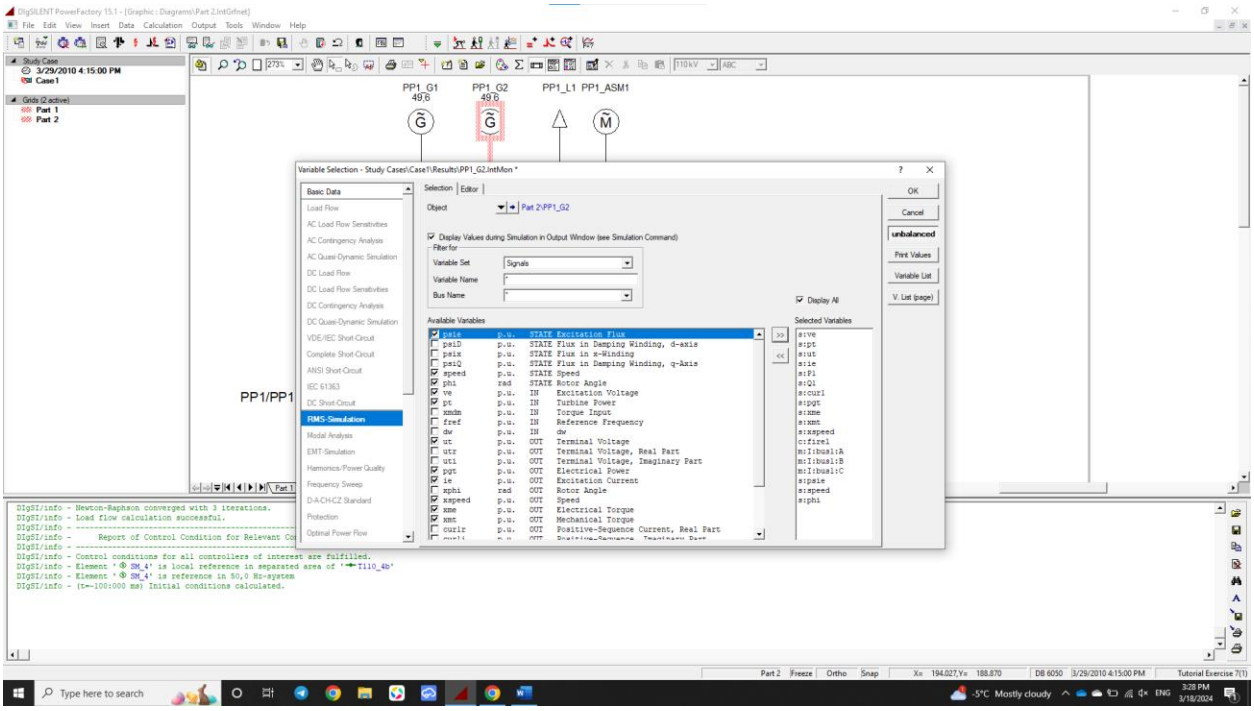




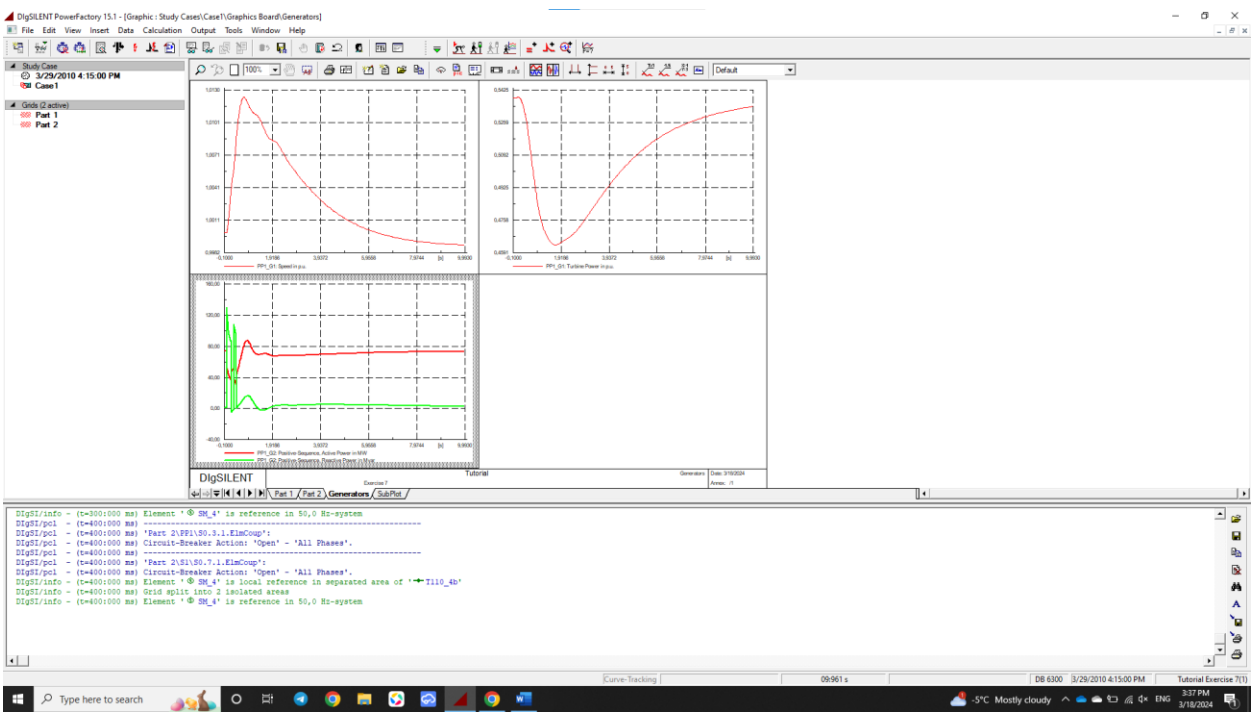


RMS simulation-ны үр дүнг график байдлаар харах учир өөрт хэрэгтэй параметрүүдийг сонгон авсан.





RMS simulation хийж үзээд G1, G2-н хурд болон турбины чадлыг график болгон харуулав.



G1-н фазын гүйдэл, хүчдэл, шугамын хүчдлийг хугацаанаас хамаарсан график байгуулав.