

# POUYA

Power\_system Online\_simulation Unveil Your Analysis

A Real Time Simulator



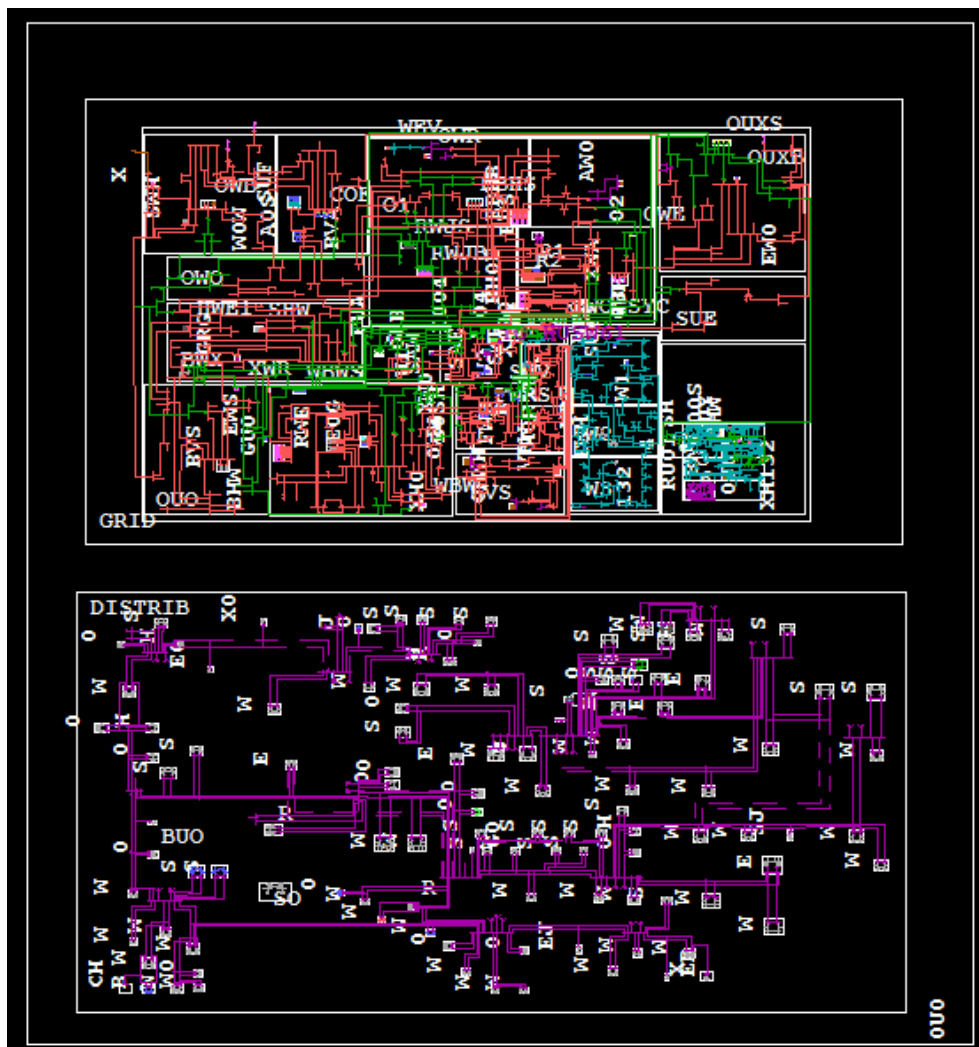
**Examine the behavior of an actual interconnected system with one of its distribution system**

Reference: Author experience

WRITER:

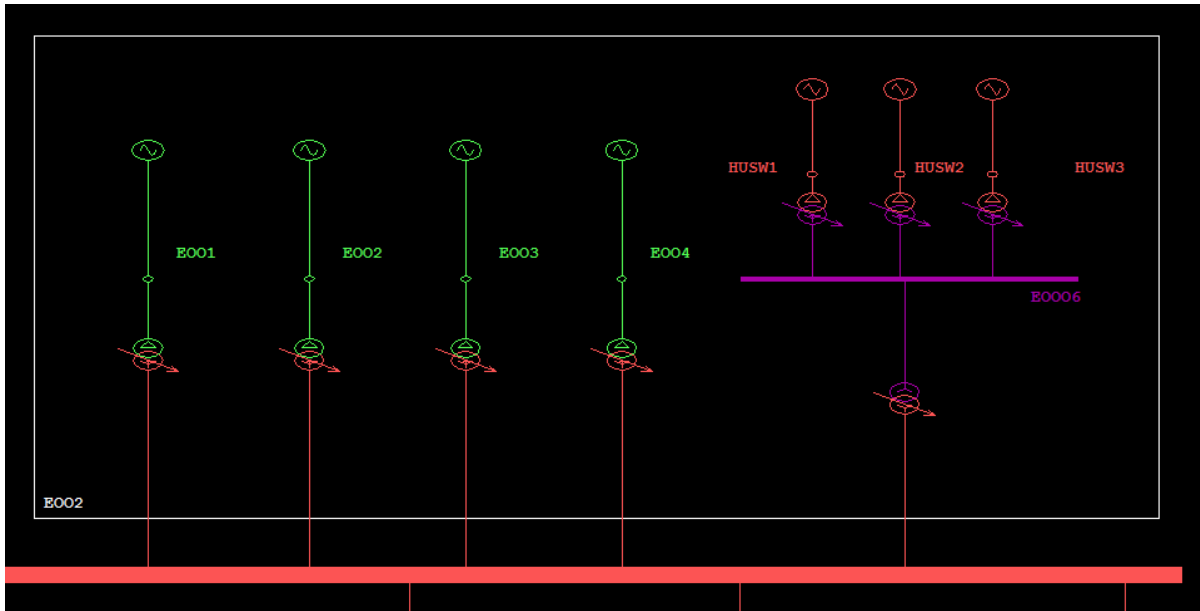
PUBLISHED: 1997

An interconnected system 400, 230, 154, 132, 63, 20 kV

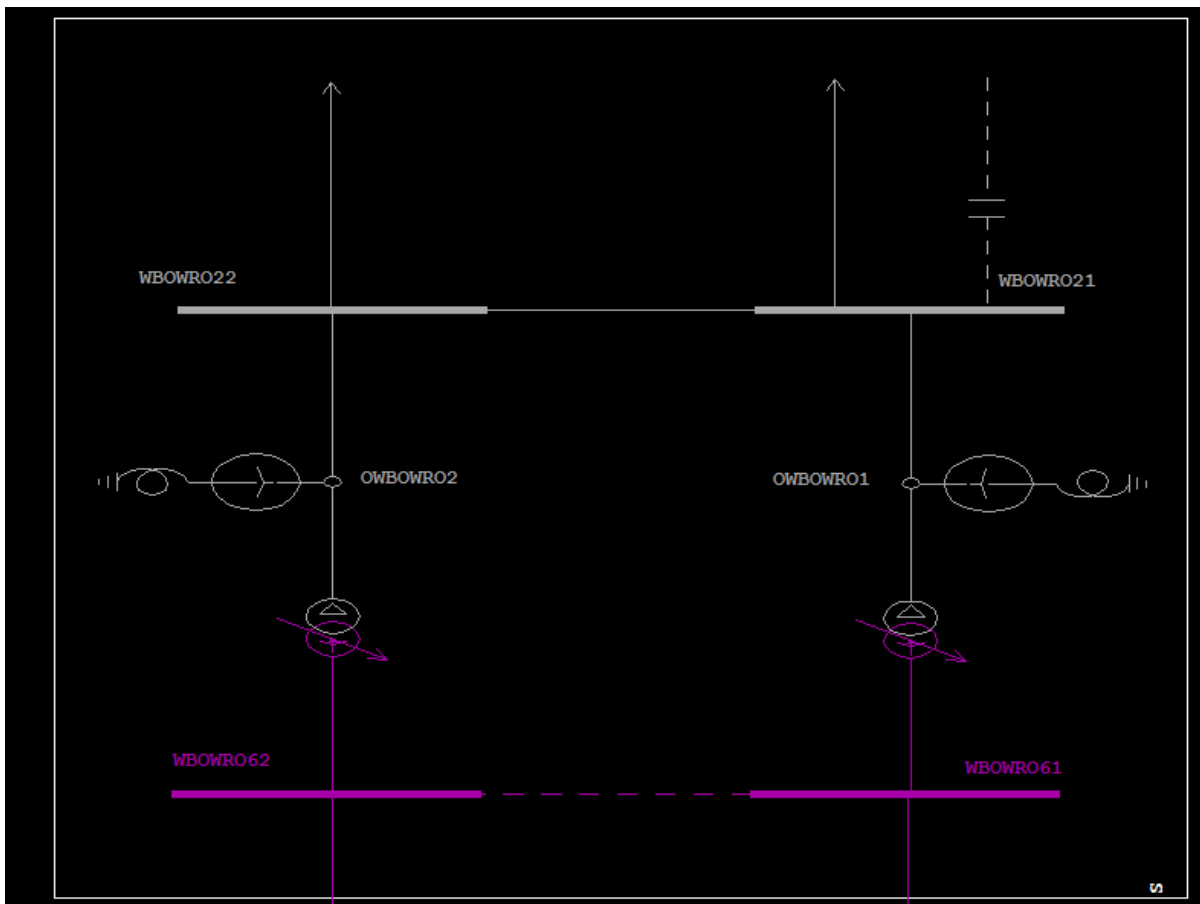


“The software owner retains copyright © to the software manuals”

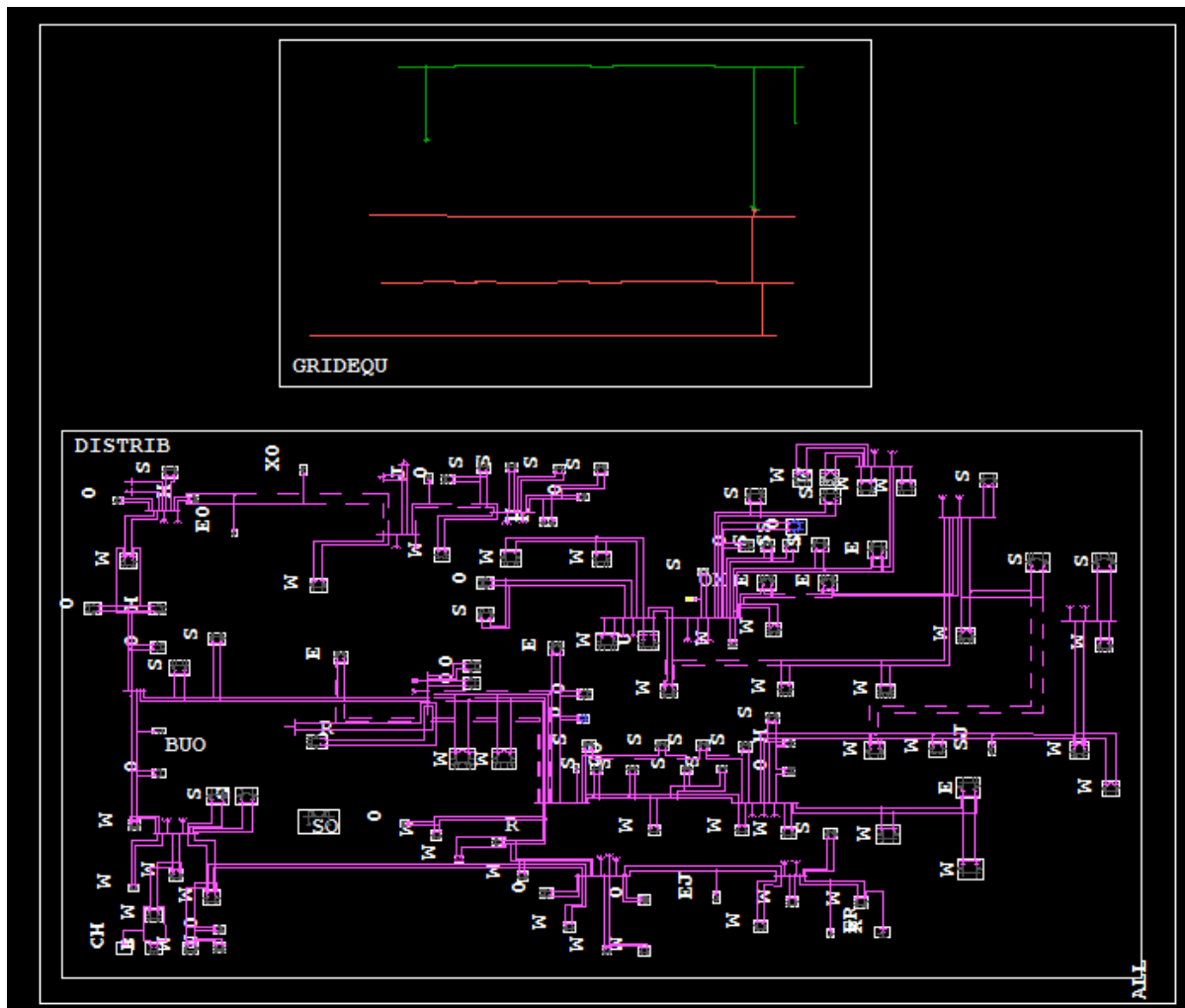
**A generation station of the interconnected system**



**A 63/20 KV substation of huge interconnected system**



A 63/20 KV substation of huge interconnected system when grid equivalent is made



**EXERCISES**

- 1- Bring the network and find the line outage , load changing , etc.... effects;
- 2- Increase the generator output and see the loss effect;
- 3- operate the system in optimum cost consider the distribution loss;
- 4- Bring the distribution system to find out why equivalency does not work, and so appropriate the Global Network Simulation(GNS). Experience IEEE 14 bus model to get an idea about GNS;
- 5- Register for a related class to find out more about the water shock effects.