A project proposed by Prof. Yusheng XUE of State Grid Electric Power Research Institute (Nanjing Automation Research Institute, NARI)

Smart Grid Reliability Management from Hybrid-network and Big-data Perspective

is open for collaboration
A physically stable PS can be unreliable for power supply due to external events, such as:

- Fault probability
  - Short circuits
  - Forced outage

- Operating conditions
  - Injections at buses
  - Element connection

Events in any external sectors

This is difficult to assess and control, however shouldn’t deter researches from studying.