

Power System Laboratory

● Lab Feature

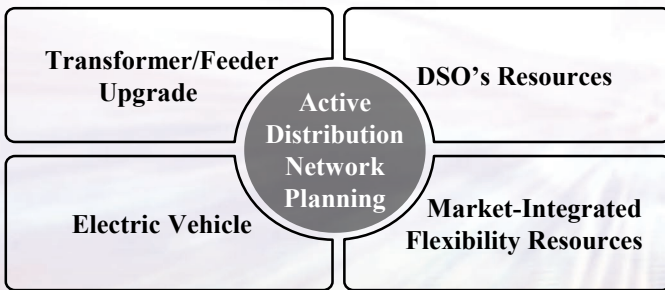
- ✓ Power System Lab focuses on integrated resource planning, power system black start, and the use of underutilized distribution networks resources and EVs to enhance operational flexibility and reliability.

● Research Topics

- Use of distributed energy resources to support critical load restoration and black start
- EVs and Renewable energy integrations
- Day-ahead flexibility resources scheduling and real time dispatch
- Integrated distribution resource planning

● Projects

- A study on the use of distributed energy resources to support power system black start (MOST)
- Aggregation and applications of flexible resources in distribution network (III)
- Technical assessment and establishment of China Steel Corporation's microgrid



Renewable Energy
Generation uncertainty, curtailment



Flexibility of DERs
Regulation service by flexible resources



Grid Security
Solve voltage violations, grid congestion



Ancillary Services
Support power system operations

