# Impact of Distributed Energy Resources

The study on the Impact of Distributed Energy Resources will inform the following future studies:

## Studies

1. Sensitivity study focusing more on the following:
   1. Demand-side management, management system, microgrid
2. Integrated modeling of BES and distribution system
   1. Non-managed charging vs. managed charging
      1. Impact on system
      2. DG, EV management, load management energy/load shift
      3. Patterns, availability of EVs
      4. Load shift with DER

## Other Key Reliability Questions

* Given a significant capacity of DERMS, perhaps 500 MW by 2030, how would DERMS increase or decrease BPS reliability risks?
* How might load profiles of the BPS change with increases in DER and microgrid deployments?
* What are the quantified reliability benefits and risks of moving toward a future with more DER and control over DER?