

# Smart Grid at Illinois

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# Smart Grid Efforts @ Illinois



## TCIPG: Trustworthy Cyber Infrastructure for the Power Grid

- Drive the design of a resilient cyber infrastructure for electric power which operates through attacks
- Univ. Illinois, Cornell, Dartmouth, U.C. Davis, Wash. State Univ.
- Funded by DOE and DHS
- Follow-on to NSF CyberTrust Center
- Managed in the Information Trust Institute

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**Illinois's Singapore Adv. Digital Sciences Center  
Smart Grid Subprogram**

Projects in Microgrids, DERs, and HANs



**Korean National Smart Grid TestBed on Jeju Island.**

Project concerning testbed and cyber security research on  
Distributed Denial of Service

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## Illinois Center for a Smarter Electric Grid

### Validation & Compliance Services

- Test bed & lab equipped with HW/SW to perform validation of Smart Grid systems
- Critical Infrastructure Protection (CIP): pre-audit check for compliance to NERC standards
- Prepare for NERC reliability compliance audits

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4 DOE Office of Electricity Security Projects with:

