**VISION:** Obtain sustainable power generation by shifting power delivery to energy delivery using smart grid concepts.

**OBJECTIVES:**
- Create a center to enable interdisciplinary research and training in smart grids.
- Develop a research agenda to realize the energy delivery paradigm and sustain the design and development of smart grids.
- Develop a comprehensive interdisciplinary education training pipeline in smart grids.
- Promote participation of a diverse student population in smart grids research and training.
- Achieve sustainability and international leadership in smart grids research and training.

**ENERGY:** Develop a formulation for energy delivery, and evaluate, validate and demonstrate the concepts through simulation studies and implementation.

**COMMUNICATION:** Design a novel, scalable communication architecture that enables smart grid entities to effectively communicate with each other.

**COORDINATION:** Design coordination mechanisms that allow smart grid entities to coordinate their actions to ensure reliable and efficient energy delivery.

**MONITORING:** Develop techniques to detect and classify disturbances occurring in transmission and distribution networks.

**OUTREACH PROGRAMS:**
- Middle and High School roadshows on engineering and computational thinking
- Computational Thinking summer camps for K-12 girls
- Community events for families and kids to promote awareness and education in smart grids
- Outreach conferences and workshops

**DEGREES AND MINORS:**
- Masters in Science of Smart Grid Technologies
- Interdisciplinary Doctorate in Smart Grid Technologies
- Undergraduate Minors in Smart Grid Technologies
- K-12 Smart Grids infusion

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**iCREDITS Center, New Mexico State University**

http://icredits.nmsu.edu | (575) 646-4451 | icredits@cs.nmsu.edu

Dr. Enrico Pontelli, Dr. Satish Ranade, Directors

The iCREDITS Center is funded by the National Science Foundation, HRD-1345232 CREST Program.