

SMART BUILDINGS MEET THE SMART GRID

Energy Intelligence = (Today's Grid / Smart Buildings / Efficiency technologies / Renewables) + Information Technology (IT)



- UNM leverages smart buildings, smart meters, thermal Storage, renewable energy and distributed generation with a DOE funded project implemented by ECI and interfaced with PNM to develop Smart Energy strategies



- IT Interoperability collaboratively controls resources to make the Grid more reliable and efficient while creating new business and market opportunities



Partners:

- University of New Mexico (UNM)
- Energy Control Inc. (ECI)
- Public Service Company of New Mexico (PNM)
- Department of Energy (DOE)

SMART Buildings use automation & web services to drive **CLEAN** efficient use of energy and become **GREEN** buildings

- Smart Grid Benefits**
- - Energy Reliability with IT
 - - IT is cheaper than Electric Infrastructure
 - - Electric System Interoperability with IT
 - - Smart buildings optimize performance using IT
 - - Reduce spinning power reserves for demand with IT

Distributed Generation