

E7: Smart Power

A brief description to the area: UNM Smart Power is a multidisciplinary research group in the Department of Electrical & Computer Engineering working on multiple aspects of society's energy needs and networked systems. From power system control and protection and microgrid and smart grid design and operation, to integration of distributed energy resources, Power Electronics, Storage and Electric Vehicles, and novel photovoltaics (PV) materials for better solar cells, the research conducted by faculty associated with this group cuts across a broad spectrum of important engineering focus areas.

Area Chair: Prof. Ali Bidram

Faculty Members:

Prof. Jane Lehr,

Prof. Tito Busani,

Prof. Manel Martinez Ramon,

Prof. Masoud Davoudi.

Core courses (Students need to take at least 3 out 4):

ECE583 Power Electronics (Fall),

ECE584 Photovoltaics (Spring),

ECE588 Smart Grid Technologies (Spring),

ECE595 Distribution Systems (Fall).

Another major course:

ECE595 Power System Protection (Spring)