

E7: Power, Energy and Networks (PEN)

A brief description to the area: UNM Power, Energy and Networks (PEN) 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 novel photovoltaics (PV) materials for better solar cells, to multi-functional PV modules, to coordination of PV energy with the modern Smart Grid, Power Electronics, Storage and Electric Vehicles, the research conducted by faculty associated with PEN cuts across a broad spectrum of important engineering focus areas.

Area Chair: Prof. Sudharman Jayaweera

Faculty Members:

Prof. Manel Martinez Ramon

Prof. Ganesh Balakrishnan

Prof. Rafael Fiero

Prof. Meeko Oishi

Prof. Daniel Feezel

Prof. Chaouki Abdallah

Prof. Wennie Shu

Prof. Jane Lehr

Major core courses:

ECE583 Power Electronics (Fall),

ECE584 Photovoltaics (Spring),

ECE588 Smart Grid Technologies (Fall).

ECE595 Power Systems II

ECE595 Power Systems III

ECE595 Distribution Systems

ECE595 Power Electronics Lab