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**Topic:**

Brief Introduction of APS and Renewable Energy Technical Services

Basics of Utility Scale Wind Power and Wind Facilities

Wind Turbine Generator layout and basics

Wind Facility Layout

Interconnection to the Utility Grid

General Operations

Development of Wind Facilities

Private land acquisition (purchase or lease?)

General permitting outline

Right of Way necessary for interconnect tie line (to the utility)

**Bio:**

Ronald Flood is an internal consultant with the Renewable Energy Technical Services department of Arizona Public Service (APS). He provides review and due diligence for both traditional and renewable assets under consideration, as well as providing technical and development requirements for counter-party agreements. Other duties have included organizing and conducting studies that cut across organizational lines, reviewing and improving performance of assets under agreement, and evaluating new technologies.

Currently, Ron is working on research projects for the Variability of PV and its effects on transmission and distribution systems, and on the uses of Energy Storage for distribution systems and renewable generating systems.

His background includes 30 years in nuclear power, including plant manager and systems engineering management. He then worked on project development and project management for new, gas-fired power plants and renewable projects before moving into renewable energy. Ron earned a Bachelor of Science Degree in Mechanical Engineering from the University of Toledo and held a Senior Reactor Operators license.