



EE Colloquium Series – Spring 2017

January 17, 2017 – AH 134, 2:00-3:00 PM

(“Meet the Speaker” BB 340 1:30-2:00 PM)

Integrating High Levels of Variable Renewable Energy in Electric Power Systems

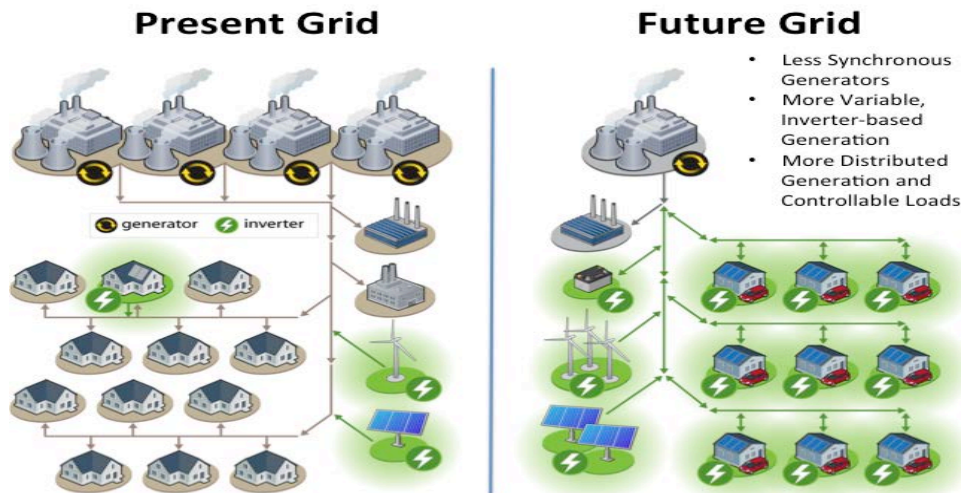
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Director – Power Systems Engineering Center

National Renewable Energy Laboratory

Abstract:

Is it possible to achieve power grids with 100% variable generation like wind and solar? At small levels, the power grid can handle the uncertainty and variability of these sources. At much higher levels, there are a number of technical concerns that must be addressed to ensure reliable and economic operations. This presentation will discuss the challenges and solutions to operating power system with high levels of variable renewables.



Biography:

Dr. Ben Kroposki is the Director of the Power Systems Engineering Center at the National Renewable Energy Laboratory (NREL) where he leads NREL's strategic research in the design, planning and operations of electrical power systems. His expertise is in the design, testing, and integration of renewable and distributed power systems and has more than 115 publications in these areas. As an IEEE Fellow, Dr. Kroposki was recognized for his leadership in renewable and distributed energy systems integration.

