Heat Storage for Gen IV Reactors for Variable Electricity from Base-Load Reactors

Changing Markets, Technology, Nuclear-Renewable Integration and Synergisms with Solar Thermal Power Systems

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Dr. Bragg-Sitton is the co-Director of and Nuclear Science & Technology lead for the Idaho National Laboratory (INL) Laboratory Initiative on Integrated Energy Systems, which includes focus areas for thermal energy generation, power systems, data systems, and chemical processes/industrial applications. Within this role Shannon serves as the INL lead for the DOE Applied Energy Tri-Laboratory Consortium, which includes INL, the National Renewable Energy Lab, and the National Energy Technology Lab. Shannon has held multiple leadership roles in DOE Office of Nuclear Energy since joining INL in 2010. She currently serves as the National Technical Director for the DOE-NE Integrated Energy Systems (IES) program within Crosscutting Technologies Development. IES designs seek to coordinate the use of multiple clean energy generation sources – e.g. nuclear and renewables – to meet both thermal and electrical energy needs. These systems are designed to optimize energy use for the combined electricity, industrial manufacturing, and the transportation sectors. Within the IES program, Shannon serves as the Director of the Joint Use Modular Plant (JUMP) program that would utilize one NuScale Power Module within a full 12-module plant for research, development, and demonstration activities. JUMP is a part of the Utah Associated Municipal Power Systems (UAMPS) Carbon Free Power Project (CFPP).