



## Rand Simulation Enables Utilities to Predict Design Flaws for Battery Energy Storage Systems

**Baltimore, MD — September 1, 2021** – [Rand Simulation](#), a division of [Rand Worldwide](#), offers utilities, and the engineering firms that support them, a proven team of Computational Fluid Dynamics (CFD) experts that help design cooling and ventilation systems for new electrical and energy storage projects, as well as identify and correct failures that occur within existing projects. With years of microgrid experience, Rand Simulation successfully brings design insights to these systems, including experience working with the world's largest standalone solar and energy storage project.

“When a utility or partnering engineering firm is looking for a simulation partner, it is crucial to bring them in during the project design phase to accurately define the specific requirements of a battery enclosure’s cooling and ventilation needs based on detailed simulation analysis,” says Jason Pfeiffer, vice president, Rand Simulation. “This is critical to gain pre-installation confidence and mitigate future issues. Rand Simulation’s unique methodology combines deep thermo aerodynamics expertise, in-the-field battery storage experience and leverages Ansys’ industry leading engineering simulation toolsets to deliver on any project with confidence.”

“Rand Simulation’s support has been instrumental in guiding us down the right path to meet stringent manufacturer temperature requirements and tight power purchase agreement schedules,” says Tony Slaton Barker, PE, vice president of energy and sustainability, Coffman Engineers. “Their CFD experts continuously review our projects, create new analyses and support engineering as well as construction modifications for our HVAC systems, thus drastically increasing battery operability and life span.”

As an Ansys Elite Partner, Rand Simulation helps utilities modernize their grids by designing proven cooling and ventilation systems based on rigorous CFD analysis. Using the specific operating criteria of custom energy storage systems such as battery capacity and electricity discharge rates, Rand Simulation experts evaluate HVAC performance, quantify temperature uniformity in battery enclosures, resolve aging discrepancies between batteries, solve end of life capacity problems and more. Watch this video for a quick overview of [Rand Simulation’s proven approach to battery energy storage systems design](#).

To learn more about Rand Simulation’s Utility expertise with Battery Energy Storage Systems call 888-483-0674, email [simulation@rand.com](mailto:simulation@rand.com) or visit [www.randsim.com/BESS](http://www.randsim.com/BESS). You can also subscribe to the [Rand Simulation Insider newsletter](#) to receive monthly engineering simulation insights, the latest Ansys product updates, and tips and tricks from Rand SIM's team of experts.

### About Rand Simulation

Rand Simulation is focused on helping organizations bring their product vision to reality through incorporating engineering simulation technology into the product development process. Rand Simulation helps product development organizations looking to compress the design process, maximize innovation, strengthen competitive differentiation and grow bottom-line profitability. Serving as both a North American reseller of Ansys engineering simulation software and a trusted design consultant, Rand Simulation offers insights gained from over 3,000 design projects using engineering analysis software to balance design performance with size, cost, DFM and aesthetics.

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