85 kWh energy storage software

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The availability of such technology is evidently transformative in our industry; however, the definition of its exact application and product requirements requires rigorous analytics. Accurate modeling of low carbon grids with large amounts of renewables and storage must capture the hour-to-hour, day-to-day, season-to-season, and year-to-year grid operations with high granularity. Furthermore, asset and portfolio design and valuation should consider multiple weather years and key future system conditions to minimize risk and achieve target reliability.

Only with such realistic modeling frameworks can one truly ascertain the value of long-duration energy storage and define the application and product requirements. Crucially, it is also the only way to understand the important specification trade-offs (say, capex versus round-trip efficiency) that inevitably come up when developing a novel hardware solution, as Form is.

In our first thought piece, we turn our attention to the problem of replacing long-running peaker plants in New York state. We uncover a strong, near term, opportunity for low-cost, long-duration electrical storage:

We hope that our readers will carefully review our results and will engage in a constructive conversation that will ultimately lead to a transparent, informed and effective energy strategy for New York and beyond. We hope you enjoy it!

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