Mtf169, Undecided, & Ferrell, M. (2020, October 06). Liquid air BATTERY explained - rival to lithium- ion batteries? Retrieved April 04, 2021, from https://www.youtube.com/watch?v=yb1Nuk3\_t\_4

Author Matt Ferrell narrates this YouTube video, “Liquid Air Battery Explained - Rival to Lithium-Ion Batteries?” which helps us understand what exactly these batteries are and how they might be better than the batteries used today. Overcoming market restraints is an issue for any new innovation and lithium-ion was a recent example of this issue. Best solutions meet resistance at their development stages. Curtailment of renewables is forcing the hunt for grid storage solutions. This simple process rivals gravity batteries by using air to store energy by compressing it down and when energy is needed the process is reversed to allow the air to turn a turbine. Pumped Hydro (Gravity) is currently the overwhelming choice for grid energy storage (see attached illustration) because they have multiple gigawatt hours of storage capacity. Liquid Air can be a viable high energy density cost efficient alternative which overcomes height and area size limitations of pumped hydro.

Undecided’s Matt Ferrell describes himself as a UI/UX designer by trade, I explore how sustainable and smart technologies impact our lives. And I try to dive deeper into those topics to provide context. Topics like electric vehicles, solar panels, and renewable energy that is meant to transition the world off of fossil fuels. Smart home technology that can make our homes not only more convenient, but safer and more accessible. Wearable technology that can track our health and save lives. Or how technology might be invading and breaking down the walls of our privacy. So, in short... Exploring how technology impacts our lives. (Undecided, about)

