

Georgian Triangle Lifelong Learning Institute
GTLLI - Grid Level Energy Storage.

Friday, November 4th, 2022

Presented by Jay Harris.

Energy Consultant, and Lifelong Student of Human Student of effect of energy on the Human condition.

Today's talk will start out by describing the energy market, and how it affects the need for various types of energy, and storage. We will discuss some various types of energy generation and how their unique qualities need to be accommodated within the energy market.

Next off we will define a few terms, some that you may recall from late high school physics. Including potential energy, kinetic energy, efficiency, and life cycles. Within this spectrum we will also lightly touch on some terms relating to electrochemistry, and end of life of materials such as batteries.

A main part of the talk will be specific to the various types, and technologies involved in energy storage on the grid.

While discussing the various types of storage technologies, we intend to touch on the environmental trade-offs which are incumbent with each type of storage. Again, at the end of the talk we hope to discuss the environment in a little more detail. In particular the effect of grid energy storage on the environment, and how these considerations affect decisions relating to the varying technologies selected.

Following the presentation there will be a question period and a period for general discussion.

With thanks to everyone assisting in the preparation and setup of the talk.