



7 – 25 -2025

Mr Roger Salway
City of Derby
Town Hall,
1 Elizabeth Street,
Derby Ct. 06418

Dear Roger,

As we discussed, we are grateful for the selection by the City of Derby to add to our long-term solar installation with the capacity to store power in the form of a battery storage installation. This possible addition could be beneficial to all interested parties. As we have discussed since this concept was proposed in the summer of 2023, the next step is to contract with United Illuminating to study the potential in the area power system to accommodate power storage at this location. UI have been very responsive to our suggestions of such a project but ultimately will determine the feasibility and allowable sizing of a project based upon normal electrical modelling and study. Such studies are costly (several thousand dollars) and Green Derby is prepared to absorb all such costs as well as the costs of preparing the applications by licensed professionals.

There was some confusion in our conversation. You indicated that Planning and Zoning approval was required before the City gave consent to the project. We understand that; and went through a similar process before the existing solar installation was built. We are not at the point where the City is giving any such project consent. The current “consent” is to allow us to apply to UI for them to electrically study the feasibility at our costs. For reasons that may be obvious, UI requires that a property owner agree with an application for the study of generation or storage on land that they do not own. After completing such a study, UI’s response could range from a complete rejection to a change of sizing to an acceptance of the potential size as we propose.

The existing electrical design (wire size, breaker capacity, transformer voltages etc) will determine this. When we have that answer, we can then develop a project size which would allow us to prepare normal and professional permit level drawings such as would typically be presented to the Planning and Zoning Board. These would be part of an overall permit package that would also address any other potential community impacts. To be clear, we will apply to all City departments for design approval when UI gives us basic design parameters. If those parameters are acceptable to both the City and Green Derby, we will also seek to negotiate an appropriate land use agreement. At the moment, without knowing the electrical feasibility, such discussions would be premature.

With that proviso, you did raise some basic questions that we can shed some light on. First, what does a battery storage installation look like. Below is a photo of an installation of a system in Mt Kisco NY which has been in operation for several years. The batteries there are adjacent to a solar field, which is roughly the same size as the solar field at Derby. This does not necessarily mean that a Derby battery would be this size, but it is illustrative. The footprint of these batteries is under a quarter acre, including setbacks and room for maintenance.



You had also asked where on the Derby site we would site the batteries. This again is premature as the electrical capacity/size of the equipment determined by UI and the preferences of the City will greatly impact this and after the UI feasibility study, we will draft a proposal and alternatives for City consideration and eventual approval by appropriate boards. We pasted a photo of the site with the existing solar field included for reference. The solar field ties into the existing UI power lines near the site entrance which is on the left of the photo. A battery system will be needed to get to the same electrical wires. Seemingly, we would be able to find 5,000 to 10,000 square feet somewhere on the bottom of the photo that can accommodate the battery installation. All normal site parameters such as ground civil design and compatibility with transfer station operations need to be addressed in a normal design package.



Again, our goal is to approach UI with the City's permission as the landowner to assess whether a battery installation is feasible. The City will be fully informed of that process as it proceeds. If that study determines that a battery can be constructed and that the size of such a battery is determined, we will then come back to you and others in the City to determine all appropriate site parameters and seek approval to move such a proposal to a defined project. We look forward to reaching that stage.

We again look forward to receiving the City's signed landowner consent form to allow us to apply to UI for a battery system at Derby.

Regards,

Reilly Q. Curran

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