

Case Study:

Battery Dismantle & Disposal

National Battery Manufacturer
Alaska



Situation

A battery from a green energy source in Alaska had reached the end of its service life, and needed to be dismantled at the point of origin and transported off-site. Due to the chemical makeup of the battery, personal protective equipment (PPE) and safety protocols needed to be implemented to ensure safety and environmental compliance. The client – a battery manufacturer specializing in grid-level storage for wind and solar farms – called in Triumvirate Environmental to complete the work at this satellite location.

Action

Triumvirate's field services crew arrived on-site with PPE and assessed the acid electrolyte flow within the battery. As a first step, the field services personnel drained any hazardous acid electrolyte using manual and electric pumps. Next, the battery itself was dismantled, leaving 40 yards of contaminated debris. Before disposing of the hazardous waste, Triumvirate recognized the monetary value of recoverable metals for the client, and separated out semi-precious metals that could be recycled rather than disposed of.



Result

Within one week's time, a large piece of electrical equipment was dismantled – its hazardous waste disposed of and transferred professionally off-site, and its recoverable metals recycled for re-use. The client was impressed with project time management as well as Triumvirate's ability to work outside of its typical geographic area to complete the task.



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