

Case Study:

IHI TERRASUN SOLUTIONS

IHI Terrasun Solutions, a leading energy storage systems and lifecycle services provider, contracted Spark Power Solutions to design and build their southern Ontario BESS portfolio. These projects allowed the host facilities to participate in the IESO Global Adjustment program, which will potentially save the facilities millions of dollars in energy costs over the lifetime of each system.



Scope

- Full design engineering, including feasibility studies, CIA applications, and IFCs.
- Major equipment design and procurement.
- Utility and interconnection process management.
- End-to-end solutions provided turnkey BESS construction.
- Utility testing and commissioning.



Challenges

- Several facilities had complex design requirements and location restrictions. By working with the relevant stakeholders, Spark found solutions to minimize scope and rising costs.
- Equipment delays created long lead times but Spark Solutions was able to procure necessary materials.
- Despite delays created by COVID-19, the Spark team met tight timelines.



Solutions

- Spark worked with IHI Terrasun, the host facility, and local utilities to assess potential design risks, site topography challenges, and account for host facility operating patterns to select safe, functional, and cost-effective locations for each BESS project.
- When equipment lead times created barriers for project timelines, Spark's team creatively reimagined specific equipment designs to ensure project schedules were maintained by taking advantage of our in-house fabrication services and extensive manufacturer relationships.
- When an opportunity to interconnect a BESS project presented itself earlier than anticipated, Spark Solutions worked with our internal construction, engineering, and procurement teams to reprioritize the standard construction and procurement sequence to take advantage of the shutdown; potentially saving months of down time.

Interested in learning more? Contact us at:
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