

**Project: Turnkey EPC**  
**Industry: Technology/Datacenter**  
**Location: Afton, TX**  
**Budget: \$55 Million**  
**Project Duration: In Proress (Started: June 2021 - Expected End: March 2027)**



Cryptocurrency Mining Operation, Afton, TX

## Client Objective:

A Technology/Datacenter client in Afton, TX hired Saber Power to provide all engineering, procurement, construction, and testing services for the execution of a 200MW cryptocurrency mining facility project, which we are currently expanding to 900MW. The Helios project is expected to be, when completed, one of the largest facilities of its kind within the United States.



Saber engineered, procured, constructed, and tested a new 345 kV substation. The scope for Phase I was to engineer and construct two, 345/34.5 kV main power transformer bays, which fed into their own respective 34.5 kV buses. Each bus, being tied together with a vacuum circuit breaker, had five separate feeds that could each transmit 30 MVA of power. Saber's turnkey solution included foundations, full steel supports, perimeter fencing, the protection and control building with relay panels/communications systems, and all major equipment required for substation operation.

For Phase II, Saber provided the 35 kV distribution system for Phase I, up to and including the LV power cables and raceways to each PDU. This scope included all procurement of (100) 2.5MVA transformers and associated switchboards, the 35 kV U/G power cable to each transformer, and all LV power cable to the connected loads, including connection to each PDU.

For Phase III, Saber expanded this substation by a multiple of three. The final product has a total of six 345/34.5 kV main power transformer bays, which has a total of 30 feeders capable of transmitting 900MVA. In both the initial installation and the expanded scopes of work, the site preparation was prepared by a third-party contractor as part of the larger project site preparation. Saber completed the project topping the substation with crushed rock surfacing as applicable. Phases I and II were completed in a record 14 months from contract award. Phase III is ongoing.

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