

Case Study Stanage Bay

The issue

Stanage Bay is a remote community with fewer than 100 permanent residents. However, during the Christmas/New Year and Easter holiday periods, the number of visitors increases significantly. This seasonal influx puts additional pressure on the single-wire, earth return (SWER) low voltage electricity network that supplies the area, especially during the evenings. During these peak times, the network can experience power quality issues, particularly voltage sag.

To ensure a reliable electricity supply for Stanage Bay residents and visitors during these high-demand periods, we sought 20kVA of local, dispatchable generation, to add to the network.

The solution

In 2015, we addressed this challenge by establishing an initial four-year Network Service Agreement (NSA) with the local general store, Plumtree Store & Crab Pot Bar with options to extend the agreement. Under this agreement, the store operated its on-site 10kVA generator between 6:00pm and 9:00pm on peak days, providing support to the network for up to 60 hours of run time each year.



Through this arrangement, Plumtree Store & Crab Pot Bar was compensated for running its generator, which effectively removed its load from the network. This action helped to mitigate voltage sag and maintain consistent power quality for the local community.

The partnership proved highly valuable, effective, and cost-efficient for both us and Plumtree Store & Crab Pot Bar, leading to an extension of the NSA until 2026. As a result, we were able to postpone costly, but ultimately necessary, network augmentation for a decade. These savings help reduce upward pressure on network cost that are part of customer bills.

For more information visit:
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