

Load & Capacity Assessment Proposal



To The Village of Skaneateles

Scope and Price

December 2023

Overview

SmartKable Powerline Solutions (SKPLS), in partnership with the Village of Skaneateles (“The Village”), is pleased to provide this additional proposal. It includes installation of additional Line Ranger (LR) network technology units to perform a further load assessment and capacity assessment in additional areas of the Village. The details are described herein.

The Assessment

- Line monitoring and measurement to assess the status and health of the local Skaneateles feeder line from the substation and including the several transformers to the east along the north shore of Skaneateles Lake behind Genesee Street. Installations are planned as outlined in attachment A1. Note these may be subject to small modifications as warranted at the time.
- Based upon the information provided:
 - The line voltage is up to 4,160 V, 150 A.

Scope and Deliverables

- The proposal price covers all travel, set up, installation and removal work (other than any support resources from The Village) to physically put the LRs on the lines and take them off. It also includes all analysis and reporting work, including action steps.
- A total of **twelve LR units** in **four locations** will be deployed during this assessment. These will be deployed in the areas noted in attachment A1.
- The LRs are expected to be installed for an approximate period of 30 days at each of the locations. The LRs will be recovered afterward.
- The data captured by the LRs will be used for the following:
 - Create a set of baseline metrics for the lines under study, including Voltage, Amperage, Power Factor, Harmonics, derivatives of key parameters, calculated KVA, KW, KVA and impedances.
 - Measure and analyze phase to phase characteristics.
 - Determine the present loads between the areas measured.
 - Estimate the capacity related to the lines measured.
 - Generate a concise report for review.
- After delivery of the report, provide further discussion of relevant findings as desired.
- Note that the equipment remains the property of SKPLS.

Installation

It is anticipated that two or more installation events and de-installation events will occur. These will be done by appropriately certified electrical personnel and supervised by SKPLS personnel as warranted.

Analysis and Deliverables

- The analysis will support the deliverables outlined above.
- If permanently deployed in the future, the LRs can also provide an ongoing load assessment based on real-time data measurement and analysis.

- On ongoing analysis could provide a broad overview of network limitations and potential points of concern.

Delivery Timing

- Installation of the units will be jointly agreed with Skaneateles. The report encompassing the proposed Scope is to be delivered within 15 days after the final units have been removed from the lines.

Proposal Expiration

- The pricing and terms are valid for sixty (60) days from the date of this proposal.

Pricing and Terms

Price: A fixed price of \$22,000 for the scope proposed, inclusive of all oversight of installations, unit removals, travel, analysis, reports and action steps.

Payment: 50% at mobilization to the site. 50% on delivery of the report.

Proposed LR Locations

- As projected in attachment A1 and confirmed by The Village.

Signatures to affirm the submission and acceptance of this proposal are below.

Submitted by:

SmartKable Powerline Solutions, Inc.

Agreed and Accepted by:

Village of Skaneateles

William Collins, Director

Attachment A1
Map of Applicable Grid Area
And Planned Locations for Installations

