

CASE STUDIES:

STORM RESTORATION AND UTILITY SERVICE

Storm Restoration: Hurricane Irma, Florida

Scope: In September 2017, Hurricane Irma, a Category 5 storm, made landfall in Florida. In the aftermath of the storm, over 64% of the state was without power. The state coordinated with electrical companies for power outages to be restored as quickly as possible. Partnering with Duke Power in Sebring, Florida, Spark Power performed an overhead primary and secondary line restoration project on the overhead distribution system in the Sebring area of the state.

Budget: \$750,000

Outcome: The project lasted three weeks and was safely completed on time and on budget.

Requirements:

Installation and removal: Wood poles and associated power line hardware.

Stringing: New overhead three phase and single-phase primary line.

Relocation: Using live line techniques to relocate secondary services over to the new overhead line, including the relocation of the primary and secondary underground plant to the new line.

Project management: Spark Power was responsible for daily work scheduling and protection.

Communication: Notifying customers impacted or affected by planned outages.

Storm Restoration: Nor'easters, New England

Scope: The New England states were hit with two powerful nor'easters, back-to-back, in March 2018. These powerful storms brought heavy rain, snow, flooding, and hurricane force winds. Combined, almost 3 million people were without power at one point. Working with Eversource, Con Ed, and Central Hudson Gas and Electric, Spark Power performed an overhead primary and secondary line restoration on the overhead and distribution system in Connecticut, New York State, and New Jersey.

Budget: \$550,000

Outcome: The project lasted three weeks and was safely completed on time and on budget.

Requirements:

Installation and removal: Wood poles and associated power line hardware.

Stringing: New overhead three phase and single-phase primary line.

Relocation: Using live line techniques to relocate secondary services over to the new overhead line, including the relocation of the primary and secondary underground plant to the new line.

Project management: Spark Power was responsible for daily work scheduling and protection.

Communication: Notifying customers impacted or affected by planned outages.

Utility Service: Eastern Ontario Power (Fortis Group), Gananoque, ON

Scope: Throughout 2018, Eastern Ontario Power utilized the experience and expertise of Spark Power to complete several electrical distribution system upgrades in Gananoque, ON (population 5,159). The work focused on Spark Power performing an overhead primary and secondary line rebuild on the 4.16kV system in Gananoque.

Budget: \$750,000

Outcome: The project was safely completed on time, on budget, and has left an indelible mark in the ongoing provisioning of electricity to the residents of Gananoque.

Requirements:

Reconditioning: 7 km long triple-circuit multi-tenant pole line.

Installation and removal: Approximately 70 wood poles and associated power line hardware.

Tension stringing: New overhead three phase and single-phase primary line.

System conversions: 27kV system voltage conversion staged concurrently with an overhead to underground distribution system conversion.

Relocation: Using live line techniques to relocate secondary services over to the new overhead line, including the relocation of the primary and secondary underground plant to the new line.