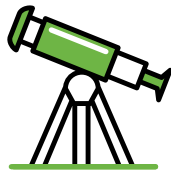


Case Study: **REPLACING CITY OF MEDICINE HAT'S SUBSTATION INFRASTRUCTURE**

Spark Power's engineering services and expertise were contracted by the City of Medicine Hat to design a replacement for the aging infrastructure in a 69kV generation substation. This project was completed in approximately 12 months and significantly helped to enhance the City of Medicine Hat's operating system by creating a safer and more efficient environment.



Scope

- Spark Power's engineers designed a package that allowed for the replacement of breakers, current transformers (CTs), potential transformers (PT's) and disconnect switches, while maintaining operation in the substation.
- Substation protection was upgraded to current series.



Challenges

- Obtaining clearances for the substation created some delays, although the project was still completed in a timely manner.
- Despite limited drawings of the previous substation, we located relevant sources that enabled Spark to design the upgrade with the best possible detail on existing conditions.



Solutions

- Replacement of the infrastructure was efficiently completed, from start to finish.
- Created a design with minimal impacts to operations and almost zero downtime.
- Added documentation for existing line structures that were previously undocumented.
- Completed a survey, which helped to document the existing substation and ensure that all necessary updates were captured in the upgrade.

Interested in learning more?

Contact us at:

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