Application of Clean Power Generation Technologies to the Saskatchewan Minerals Industry

This project will evaluate various cleaner, renewable, and innovative options for power generation for a mining operation with a target of reducing the environmental impact of mine operations while considering the economics of new technologies. The study will produce information that will help drive the future of electricity production for the mining industry in Saskatchewan. Technology is changing rapidly, and this study will provide a detailed analysis of the current state of art and the trend for the next 5 years for electricity generation and how the mining industry in Saskatchewan may leverage new power production technologies to improve operating expenditures.

Technologies which will be reviewed and assessed will include new options for low carbon sources of electricity, such as renewables and small modular reactors, as the state-of-the-art over the next five years will be profiled. These technologies represent alternatives to the power grid which may offer a method to address the increasing need for more economically and environmentally sustainable means of power generation for use by mines across Saskatchewan.

PROJECT INFORMATION:
Proponent: March Consulting Associates Inc.
Project Duration: December 2020 to June 2021

Project Cost:	**$85,000**
IMII Contribution:	$60,000
CMI:	$20,000
Industry In-Kind:	$ 5,000

International Minerals Innovation Institute

iMii is a unique innovation supporting network of mining companies, government departments and agencies, and post-secondary and research institutions, jointly funded by industry and government. It exists to deliver innovations that matter to mining in Saskatchewan.
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